

Appendix Table

Wang XZ, Taub, TR. (2010). Interactive effects of elevated CO₂ and environmental stresses on root mass fraction in plants: A meta-analytical synthesis

For each entry, it is noted whether the species is a woody (W) or herbaceous (H) species, or whether the species is or a community contains a leguminous (1) or non-leguminous (0) species, and the type of growth facility used in the empirical studies: CSTR (Continuous Stirred Tank Reactors), CTC (Closed-Top Chambers), FACE (Free Air CO₂ Enrichment), FieldChamb. (Field Chambers), GCGH (Growth Chambers, Greenhouses, or Phytotrons), OTC (Open-Top Chambers), solardomes, SPAR (Soil-Plant-Atmosphere Research Chambers), TGC (Temperature Gradient Chambers), TGG (Temperature Gradient Greenhouse), and tunnels. It is also noted if environmental stresses were imposed on the plants in the studies.

The sources of data in the publications, table (T) and figure (F), are included in the table. Entries are arranged by alphabetical order of species. References to the papers by two or more authors are abbreviated and listed using the format of first author *et al.* year. All the publications are listed in the Appendix References following this table.

Species	W/H	Legume	Facility	Stress	Source	References
<i>Abelmoschus esculentus</i>	H	0	GCGH	None	F2	(Overdieck et al. 1988)
<i>Abies fraseri</i>	W	0	GCGH	None	T3	(Samuelson & Seiler 1992)
<i>Abutilon theophrasti</i>	H	0	GCGH	None/Temp	T4	(Patterson et al. 1988)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	F1	(Bazzaz et al. 1989)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	F1	(Bernacchi et al. 2000)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	F1/F5	(Coleman & Bazzaz 1992)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	T1	(Dippery et al. 1995)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	T1/T3	(Patterson & Flint 1980)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Abutilon theophrasti</i>	H	0	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Acacia aneura</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia aneura</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia auriculiformis</i>	W	1	GCGH	None/Fert	F1/T2	(Nguyen et al. 2006)

<i>Acacia colei</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia coriacea</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia dealbata</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia dealbata</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia implexa</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia implexa</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia irrorata</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia irrorata</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia karroo</i>	W	1	GCGH	None/UV-B	F5	(Wand et al. 1996)
<i>Acacia magium</i>	W	1	GCGH	None/Fert	F1/T2	(Nguyen et al. 2006)
<i>Acacia magium</i>	W	1	GCGH	None	T1	(Ziska et al. 1991)
<i>Acacia meanrsii</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia meanrsii</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia melanoxylon</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia melanoxylon</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acacia saligna</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia smallii</i>	W	1	GCGH	None	T2	(Polley et al. 1997)
<i>Acacia tetragonophylla</i>	W	1	GCGH	None	T1	(Atkin et al. 1999)
<i>Acacia tetragonophylla</i>	W	1	GCGH	None	T2	(Schortemeyer et al. 2002)
<i>Acer pensylvanicum</i>	W	0	GCGH	None/Temp/Fert	T1	(Bassow et al. 1994)
<i>Acer rubrum</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Acer rubrum</i>	W	0	GCGH	None/Water/Flooding	F2	(Miao et al. 1992)
<i>Acer rubrum</i>	W	0	GCGH	None	F2	(Vann & Megonigal 2002)
<i>Acer saccharum</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Acer saccharum</i>	W	0	GCGH	None/O ₃	F1	(Guacher et al. 2003)
<i>Acer saccharum</i>	W	0	OTC	None	F2	(Gaucher et al. 2005)
<i>Acer saccharum</i>	W	0	GCGH	None/O ₃	T3	(Noble et al. 1992)
<i>Acer saccharum</i>	W	0	GCGH	None	T1	(Parsons et al. 2003)
<i>Acer saccharum</i>	W	0	OTC	None/Water	F1	(Tschaplinski et al. 1995)
<i>Achillea millefolium</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Achnatherum hymenoides</i>	H	0	GCGH	None	T2	(Yoder et al. 2000)
<i>Acmena smithii</i>	W	0	GCGH	None	T1	(Roden et al. 1997)
<i>Aechmea magdalenae</i>	H	0	GCGH	None	T1	(Ziska et al. 1991)

<i>Agave deserti</i>	H	0	GCGH	None	T2	(Graham & Nobel 1996)
<i>Agave deserti</i>	H	0	GCGH	None	F2	(Nobel & Hartsock 1986)
<i>Agonis flexuosa</i>	W	0	GCGH	None	T4	(Downton & Grant 1994)
<i>Agropyron repens</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Agropyron smithii</i>	H	0	GCGH	None/Fert/O ₃	F3/T2	(Volin & Reich 1996)
<i>Agrostis canina</i>	H	0	GCGH	None	F4	(Fordham et al. 1997)
<i>Agrostis capillaris</i>	H	0	OTC	None	F1	(Baxter et al. 1994)
<i>Agrostis capillaris</i>	H	0	GCGH	None/Fert	T1	(Cotrufo & Gorissen 1997)
<i>Agrostis capillaris</i>	H	0	Solardome	None/Fert	F3/F4	(Newbery & Wolfenden 1996)
<i>Agrostis stolonifera</i>	H	0	GCGH	None/Fert	F1	(Goverde et al. 2002)
<i>Allium cepa</i>	H	0	GCGH	None	T2	(Jasoni et al. 2004)
<i>Allium cepa</i>	H	0	Fieldcham	None	T4	(Mortensen 1994b)
<i>Alnus glutinosa</i>	W	0	GCGH	None	T1	(Norby 1987)
<i>Alnus glutinosa</i>	W	0	OTC	None/Fert	F1	(Temperton et al. 2003a)
<i>Alnus glutinosa</i>	W	0	OTC	None	T4	(Temperton et al. 2003b)
<i>Alnus glutinosa</i>	W	0	OTC	None	T2	(Vogel et al. 1997)
<i>Alnus rubra</i>	W	0	GCGH	None/Fert	T1	(Arnone & Gordon 1990)
<i>Alnus rubra</i>	W	0	GCGH	None/Water	T1	(Hibbs et al. 1995)
<i>Amaranthus hypochondriacus</i>	H	0	GCGH	None	T1	(Bunce 1990)
<i>Amaranthus hypochondriacus</i>	H	0	GCGH	None	T1	(Ziska & Bunce 1999)
<i>Amaranthus hypochondriacus</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	F1	(Bazzaz et al. 1989)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	F1	(Bernacchi et al. 2000)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None/SO ₂	F1/T1	(Carlson & Bazzaz 1982)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	F1/F5	(Coleman & Bazzaz 1992)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	T1	(Dippery et al. 1995)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	T1	(Ziska & Bunce 1999)
<i>Amaranthus retroflexus</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Ambrosia artemisiifolia</i>	H	0	GCGH	None	T1	(Ziska & Caulfield 2000)
<i>Amorpha canescens</i>	H	1	FACE	None	T1	(Reich et al. 2001)
<i>Anana comosus</i>	H	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Andropogon gerardii</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)

<i>Andropogon gerardii</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Anemone cylindrica</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Anoda cristata</i>	H	0	GCGH	None/Temp	T4	(Patterson et al. 1988)
<i>Anthoxanthum odoratum</i>	H	0	GCGH	None/Fert	F1	(Goverde et al. 2002)
<i>Anthyllis vulneraria</i>	H	1	GCGH	None	T1/F4	(Ferris & Taylor 1993)
<i>Anthyllis vulneraria</i>	H	1	GCGH	None	T2	(Ferris & Taylor 1995)
<i>Antirrhoea trichantha</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Apium graveolens</i>	H	0	Fieldcham	None	T4	(Mortensen 1994b)
<i>Apium graveolens</i>	H	0	GCGH	None	T1	(Tremblay et al. 1987)
<i>Arabidopsis thaliana</i>	H	0	GCGH	None	F3	(Gibeaut et al. 2001)
<i>Arabidopsis thaliana</i>	H	0	GCGH	None	F2	(Tocquin et al. 2006)
<i>Arabidopsis thaliana</i>	H	0	GCGH	None/Fert	F3	(Zhang & Lechowicz 1995)
<i>Arachis glabrata</i>	H	1	TGG	None	T4	(Fritschi et al. 1999)
<i>Arachis hypogaea</i>	H	1	GCGH	None/Water	T2	(Clifford et al. 1993)
<i>Arrhenatherum elatius</i>	H	0	GCGH	None/Fert	F1/F3	(Hunt et al. 1995)
<i>Artemisia absinthium</i>	H	0	GCGH	None	F3	(Smart & Penuelas 2005)
<i>Artemisia tridentata</i>	H	0	GCGH	None/Fert	T1/F1	(Johnson & Lincoln 1991)
<i>Artemisia tridentata</i>	H	0	GCGH	None	F3	(Klironomos et al. 1996)
<i>Artemisia tridentata</i>	H	0	GCGH	None	F1/F3	(Klironomos et al. 1998)
<i>Artemisia tridentata</i>	H	0	GCGH	None	F2	(Lucash et al. 2005)
<i>Asclepias syriaca</i>	H	0	GCGH	None/Herbivory	F1/F3	(Hughes & Bazzaz 2001)
<i>Asclepias syriaca</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Asparagus officinalis</i>	H	0	GCGH	None	F1	(Desjardins et al. 1990)
<i>Aster tripolium</i>	H	0	GCGH	None/Salt	T1	(Lenssen et al. 1995)
<i>Avena fatua</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Avena sativa</i>	H	0	GCGH	None/Infestation	F1	(Malmstrom & Field 1997)
<i>Avena sativa</i>	H	0	OTC	None	T2	(Saebo & Mortensen 1996)
<i>Beilschmiedia pendula</i>	W	0	OTC	None	F2	(Lovelock et al. 1996)
<i>Bellis perennis</i>	H	0	GCGH	None	T1	(Gunn et al. 1999)
<i>Bellis perennis</i>	H	0	Solardome	None/Temp	F1	(Stirling et al. 1998)
<i>Beta vulgaris</i>	H	0	GCGH	None/Fert	F5	(Demmers-Derks et al. 1998)
<i>Beta vulgaris</i>	H	0	GCGH	None	T1	(Ignatova et al. 2005)
<i>Beta vulgaris</i>	H	0	GCGH	None/Fert	T1	(Romanova et al. 2002)

<i>Beta vulgaris</i>	H	0	GCGH	None	F2	(Sionit et al. 1982)
<i>Beta vulgaris</i>	H	0	GCGH	None/Fert	F1	(Wolf 1998)
<i>Beta vulgaris</i>	H	0	GCGH	None	T2	(Wyse 1980)
<i>Beta vulgaris</i>	H	0	GCGH/OTC	None	T2/T3	(Ziska et al. 1995)
<i>Betula alleghaniensis</i>	W	0	GCGH	None/Temp/Fert	T1	(Bassow et al. 1994)
<i>Betula alleghaniensis</i>	W	0	GCGH	None	F1	(Bauer & Berntson 2001)
<i>Betula alleghaniensis</i>	W	0	GCGH	None	T1	(Bernston & Bazzaz 1997)
<i>Betula alleghaniensis</i>	W	0	GCGH	None	T2	(Berntson et al. 1997)
<i>Betula alleghaniensis</i>	W	0	GCGH	None	T2	(Rochefort & Bazzaz 1992)
<i>Betula alleghaniensis</i>	W	0	GCGH	None	T1	(Wayne & Bazzaz 1995)
<i>Betula lenta</i>	W	0	GCGH	None	T2	(Rochefort & Bazzaz 1992)
<i>Betula lenta</i>	W	0	GCGH	None/Fert	F19/F20	(Oechel et al. 1984)
<i>Betula papyrifera</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Betula papyrifera</i>	W	0	GCGH	None	T1	(Godbold et al. 1997)
<i>Betula papyrifera</i>	W	0	GCGH	None	T1	(Parsons et al. 2003)
<i>Betula papyrifera</i>	W	0	GCGH	None	T2	(Rochefort & Bazzaz 1992)
<i>Betula papyrifera</i>	W	0	GCGH	None/Fert	F2	(Zhang et al. 2006)
<i>Betula pendula</i>	W	0	OTC	None	T1	(Centritto 2000)
<i>Betula pendula</i>	W	0	OTC	None	T3	(Kellomaki & Wang 2001)
<i>Betula pendula</i>	W	0	GCGH	None	T1	(Mortensen 1994a)
<i>Betula pendula</i>	W	0	GCGH	None	F1/T1	(Pettersson & McDonald 1992)
<i>Betula pendula</i>	W	0	OTC	None	F1	(Rey & Jarvis 1997)
<i>Betula pendula</i>	W	0	OTC	None/O ₃	T3	(Riikonen et al. 2004)
<i>Betula pendula</i>	W	0	GCGH	None	F1	(Rouhier & Read 1999)
<i>Betula pendula</i>	W	0	GCGH	None/Fert	F1	(Silvola & Ahlholm 1995)
<i>Betula pendula</i>	W	0	OTC	None	T5	(Wang et al. 1998)
<i>Betula pendulosa</i>	W	0	GCGH	None/O ₃	T1	(Kytoviita et al. 1999)
<i>Betula platyphylla</i>	W	0	GCGH	None/Fert	F1	(Kitao et al. 2005)
<i>Betula populifolia</i>	W	0	GCGH	None /Temp/Fert	T1	(Bassow et al. 1994)
<i>Betula populifolia</i>	W	0	GCGH	None/Water/Flooding	F2	(Miao et al. 1992)
<i>Betula populifolia</i>	W	0	GCGH	None	T2	(Rochefort & Bazzaz 1992)
<i>Betula pubescens</i>	W	0	GCGH	None/O ₃	T1/T2	(Mortensen 1995)
<i>Betula pubescens</i>	W	0	OTC	None	T3	(Mortensen 1998)

<i>Betula pubescens</i>	W	0	OTC	None	T5	(Vanhatalo et al. 2003)
<i>Bouteloua curtipendula</i>	H	0	GCGH	None/Fert/O ₃	F3/T2	(Volin & Reich 1996)
<i>Bouteloua eriopoda</i>	H	0	GCGH	None	F1	(BassiriRad et al. 1997b)
<i>Bouteloua gracilis</i>	H	0	GCGH	None	T1	(Hunt et al. 1996)
<i>Bouteloua gracilis</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)
<i>Bouteloua gracilis</i>	H	0	GCGH	None	F2	(Morgan et al. 1994)
<i>Bouteloua gracilis</i>	H	0	GCGH	None	F1	(Read & Morgan 1996)
<i>Bouteloua gracilis</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Brassica campestris</i>	H	0	OTC	None/Water	T5	(Mishra et al. 1999)
<i>Brassica campestris</i>	H	0	OTC	None/Water	T4	(Uprety et al. 1995)
<i>Brassica carinata</i>	H	0	OTC	None/Water	T5	(Mishra et al. 1999)
<i>Brassica carinata</i>	H	0	OTC	None/Water	T4	(Uprety et al. 1995)
<i>Brassica juncea</i>	H	0	OTC	None/Water	T5	(Mishra et al. 1999)
<i>Brassica juncea</i>	H	0	GCGH	None/Pollution	T2	(Tang et al. 2003)
<i>Brassica juncea</i>	H	0	OTC	None/Water	T4	(Uprety et al. 1995)
<i>Brassica juncea</i>	H	0	OTC	None/Fert	T4	(Uprety & Mahalaxmi 2000)
<i>Brassica napus</i>	H	0	GCGH	None/Water/Temp	F2	(Qaderi et al. 2006)
<i>Brassica napus</i>	H	0	OTC	None/Water	T5	(Mishra et al. 1999)
<i>Brassica napus</i>	H	0	OTC	None/Water	T4	(Uprety et al. 1995)
<i>Bromus erectus</i>	H	0	GCGH	None	T2	(Roumet et al. 2000)
<i>Bromus inermis</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Bromus madritensis</i>	H	0	GCGH	None	F1	(Huxman et al. 1999)
<i>Bromus madritensis</i>	H	0	GCGH	None	T2	(Roumet et al. 2000)
<i>Bromus madritensis-rubens</i>	H	0	GCGH	None	T2	(Yoder et al. 2000)
<i>Bromus mollis</i>	H	0	GCGH	None/Fert	F1	(Larigauderie et al. 1988)
<i>Bromus rubens</i>	H	0	GCGH	None	F2	(Huxman et al. 1998)
<i>Bromus sterilis</i>	H	0	Solar dome	None	F1	(Stirling et al. 1998)
<i>Bromus willdenowii</i>	H	0	GCGH	None	T1	(Laing et al. 2002)
<i>Buchloe dactyloides</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)
<i>Calamagrostis epigejos</i>	H	0	GCGH	None	F4	(Gloser & Bartak 1994)
<i>Callophyllum longifolium</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Calluna vulgaris</i>	W	0	GCGH	None/Fert	F2	(Whitehead et al. 1997)
<i>Capsicum annuum</i>	H	0	GCGH	None	T1	(Fierro et al. 1994)

<i>Capsicum annuum</i>	H	0	GCGH	None	F1	(Penuelas et al. 1995)
<i>Caragana intermedia</i>	W	0	GCGH	None/Water	F3	(Xiao et al. 2005)
<i>Carex bigelowii</i>	H	0	GCGH	None/Fert	F19/F20	(Oechel et al. 1984)
<i>Carpinus betulus</i>	W	0	OTC	None	F3	(Hattenschwiler & Körner 2003)
<i>Cassia obtusifolia</i>	H	1	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Cassia obtusifolia</i>	H	1	GCGH	None/Fert	T1	(Patterson & Flint 1982)
<i>Cassia obtusifolia</i>	H	1	GCGH	None	T4	(Thomas et al. 1999)
<i>Cassia obtusifolia</i>	H	1	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Castanea sativa</i>	W	0	GCGH	None	T1	(El Kohen et al. 1993)
<i>Castanea sativa</i>	W	0	GCGH	None/Fert	T1	(El Kohen & Mousseau 1994)
<i>Castanea sativa</i>	W	0	GCGH	None/Fert	F1	(Kohen et al. 1992)
<i>Castanea sativa</i>	W	0	GCGH	None/Fert	F1	(El Kohen et al. 1992)
<i>Castanea sativa</i>	W	0	OTC	None	T2	(Mousseau 1993)
<i>Castanea sativa</i>	W	0	GCGH	None	T3	(Mousseau & Enoch 1989)
<i>Castilla elastica</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Cecropia longipes</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Cecropia obtusifolia</i>	W	0	GCGH	None	F1	(Reekie & Bazzaz 1989)
<i>Cedrela odorata</i>	W	0	OTC	None	F2	(Carswell et al. 2000)
<i>Cedrus atlantica</i>	W	0	GCGH	None	T3	(Kaushal et al. 1989)
<i>Centaurea maculosa</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Centaurea solstitialis</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Ceratonia siliqua</i>	W	1	GCGH	None	F1	(Cruz et al. 1997)
<i>Chenopodium album</i>	W	0	GCGH	None	F1	(Bernacchi et al. 2000)
<i>Chenopodium album</i>	H	0	GCGH	None/SO ₂	F1/T1	(Carlson & Bazzaz 1982)
<i>Chenopodium album</i>	H	0	Solardome	None	F1	(Stirling et al. 1998)
<i>Chrysanthemum x morifolium</i>	H	0	GCGH	None	T1	(Gislerod & Nelson 1989)
<i>Cirsium arvense</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Cirsium arvense</i>	H	0	OTC	None	F1	(Ziska et al. 2004)
<i>Citrus aurantium</i>	W	0	GCGH	None	F2	(Ferguson et al. 1986)
<i>Citrus aurantium</i>	W	0	GCGH	None/Fert	T1	(Syvertsen & Graham 1999)
<i>Citrus reticulata</i>	W	0	GCGH	None/Salt	T1	(Garcia-Sanchez & Syvertsen 2006)
<i>Citrus sinensis</i>	W	0	GCGH	None	T1	(Downton et al. 1987)
<i>Citrus sinensis</i>	W	0	GCGH	None/Fert	T1	(Syvertsen & Graham 1999)

<i>Citrus sinensis x Poncirus trifoliata</i>	W	0	GCGH	None/Salt	T1	(Garcia-Sanchez & Syvertsen 2006)
Community(<i>Herb assemblage</i>)	H	0	GCGH	None	F1	(Bazzaz et al. 1989)
Community(<i>Herb assemblage</i>)	H	0	GCGH	None	F2	(Berntson et al. 1998)
Community (<i>Tree assemblage</i>)	W	0	OTC	None/Light	T1	(Hattenschwiler 2001)
Community (<i>Grassland</i>)	H	1	GCGH	None	F1	(Leadley & Stocklin 1996)
Community(<i>Herb-tree mixture</i>)	H/W	0	GCGH	None	T2	(Arnone & Körner 1995)
Community(<i>Forest mesocosm</i>)	W	0	GCGH	None	T1	(Bernston & Bazzaz 1998)
Community(<i>Tree assemblage</i>)	W	0	FACE	None/Fert	T1	(Bucher et al. 1998)
Community(<i>Herb assemblage</i>)	H	0	GCGH	None	F1	(Carter & Peterson 1983)
Community(<i>C₃-C₄ mixtures</i>)	H	0	FACE	None	T2	(Derner et al. 2003)
Community(<i>California grassland</i>)	H	0	FACE	None/Fert	F4/F5	(Dukes et al. 2005)
Community(<i>Grassland</i>)	H	1	GCGH	None/Fert	F2	(Edwards et al. 2005)
Community(<i>Forest model ecosystems</i>)	W	0	OTC	None/Fert	F2	(Egli & Körner 1997)
Community(<i>Grassland</i>)	H	0	Solardome	None	F1	(Fitter et al. 1997)
Community(<i>Herb-Wood Mixture</i>)	H/W	0	GCGH	None	T1/T4	(Gavazzi et al. 2000)
Community(<i>Mediterranean grassland</i>)	H	1	GCGH	None	T2	(Grunzweig & Körner 2001)
Community(<i>Mediterranean grassland</i>)	H	1	GCGH	None/Fert	F1	(Grunzweig & Körner 2003)
Community(<i>Herbaceous community</i>)	H	0	GCGH	None/Fert	T2	(Hartz-Rubin & DeLucia 2001)
Community(<i>Bog community</i>)	H	0	mini-FACE	None	T2/T3	(Heijmans et al. 2001)
Community (<i>California Grassland</i>)	H	0	FACE	None	F1	(Henry et al. 2006)
Community(<i>California grassland</i>)	H	1	mini-FACE	None	T1	(Higgins et al. 2002)
Community(<i>Tree assemblage</i>)	W	0	FACE	None	F1	(King et al. 2005)
Community(<i>Grassland</i>)	H	1	OTC	None/Fert	F1	(Körner et al. 1997)
Community(<i>Grassland</i>)	H	1	SACC	None	F2	(Leadley et al. 1999)
Community(<i>Herb assemblage</i>)	H	1	Tunnels	None	F7	(Lilley et al. 2001)
Community(<i>Tree assemblages</i>)	W	0	GCGH	None/O ₃	T2	(Liu et al. 2004)
Community(<i>Tree assemblages</i>)	W	0	OTC	None	T2/T3	(Lovelock et al. 1998)
Community(<i>Grassland</i>)	H	1	GCGH	None/Fert	F1	(Maestre et al. 2005)
Community (<i>Model grassland</i>)	H	0	GCGH	None/Fert	F1	(Maestre & Reynolds 2006)
Community(<i>Tallgrass prairie</i>)	H	0	CTC	None	T1	(Mo et al. 1992)
Community(<i>Old-field microcosms</i>)	H	1	GCGH	None	F5	(Navas et al. 1995)
Community(<i>Pasture turves</i>)	H	1	GCGH	None	T2	(Newton et al. 1994)
Community(<i>Grassland</i>)	H	0	mini-FACE	None	T1	(Niklaus et al. 2001)

<i>Community(Tallgrass prairie)</i>	H	0	OTC	None	F3/F5	(Owensby et al. 1999)
<i>Community(Tallgrass prairie)</i>	H	0	OTC	None	F3/F4	(Owensby et al. 1993)
<i>Community(Semi-arid grassland)</i>	H	0	OTC	None	F1	(Pendall et al. 2004)
<i>Community (Pine community)</i>	H/W	1	OTC	None	F1	(Runion et al. 2006)
<i>Community(Alpine grassland)</i>	H	0	OTC	None/Fert	F2	(Schappi & Körner 1996)
<i>Community(Grassland)</i>	H	1	GCGH	None/Fert	F1/F4	(Stocklin et al. 1998)
<i>Community(Forest)</i>	W	0	OTC	None/Temp	F4/F5	(Wan et al. 2004)
<i>Community(Herb assemblage)</i>	H	0	GCGH	None	F1	(Wilsey et al. 1997)
<i>Community(Tree assemblage)</i>	W	0	OTC	None	T2	(Winter et al. 2000)
<i>Community(Tree assemblage)</i>	H	0	OTC	None	T1	(Winter et al. 2001)
<i>Community(C₃-C₄ grass mixtures)</i>	H	0	GCGH	None/Fert	F2/F4	(Wong & Osmond 1991)
<i>Convolvulus arvensis</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Copaifera aromatica</i>	W	1	GCGH	None/Defoliation	T1	(Lovelock et al. 1999)
<i>Crotalaria spectabilis</i>	H	1	GCGH	None/Fert	T1	(Patterson & Flint 1982)
<i>Cynodon dactylon</i>	H	0	GCGH	None	T1	(Paterson et al. 1996)
<i>Dactylis glomerata</i>	H	0	GCGH	None	T1	(Gunn et al. 1999)
<i>Dactylis glomerata</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Dactylus glomerata</i>	H	0	GCGH	None/Fert	F1	(Harmens et al. 2000)
<i>Dactylus glomerata</i>	H	0	GCGH	None/Temp	T1	(Ziska & Bunce 1994)
<i>Danthonia richardsonii</i>	H	0	GCGH	None/Stress	F1	(Barrett & Gifford 1999)
<i>Datura stramonium</i>	H	0	GCGH	None/SO ₂	F1/T1	(Carlson & Bazzaz 1982)
<i>Daucus carota</i>	H	0	Fieldcham	None	T4	(Mortensen 1994b)
<i>Daucus carota</i>	H	0	Tunnel	None	F2	(Wheeler et al. 1994)
<i>Desmodium paniculatum</i>	H	1	GCGH	None	T1	(Wulff & Strain 1982)
<i>Digitaria ciliaris</i>	H	0	GCGH	None	T1/T7	(Patterson 1986)
<i>Doryphora sassafras</i>	W	0	GCGH	None	T1	(Roden et al. 1997)
<i>Echinochloa crusgalli</i>	H	0	GCGH	None	T1/T7	(Patterson 1986)
<i>Echinochloa crusgalli</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Echinochloa crusgalli</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Echinochloa frumentacea</i>	H	0	GCGH	None/Fert	F2/F4	(Wong & Osmond 1991)
<i>Echium plantagineum</i>	H	0	GCGH	None	F2	(Johns & Hughes 2002)
<i>Elaeagnus angustifolia</i>	W	1	GCGH	None	T1	(Norby 1987)
<i>Eleusine indica</i>	H	0	GCGH	None	T1/T7	(Patterson 1986)

<i>Eleusine indica</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Elymus athericus</i>	H	0	GCGH	None/Salt	F1	(Lenssen et al. 1993)
<i>Elymus athericus</i>	H	0	GCGH	None/UVB	T1	(van de Staaij et al. 1993)
<i>Elymus elymoides</i>	H	0	GCGH	None	F2	(Lucash et al. 2005)
<i>Elytrigia repens</i>	H	0	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Eriophorum vaginatum</i>	H	0	GCGH	None	F1	(BassiriRad et al. 1996b)
<i>Eriophorum vaginatum</i>	H	0	GCGH	None/Fert	F19/F20	(Oechel et al. 1984)
<i>Eucalyptus cladocalyx</i>	W	0	GCGH	None/Fert	T1	(Gleadow et al. 1998)
<i>Eucalyptus grandis</i>	W	0	GCGH	None	T1	(Conroy et al. 1992)
<i>Eucalyptus macrorhyncha</i>	W	0	GCGH	None/Water	T1	(Roden & Ball 1996a)
<i>Eucalyptus macrorhyncha</i>	W	0	GCGH	None	F1	(Roden & Ball 1996b)
<i>Eucalyptus miniata</i>	W	0	TENT	None	T1	(Duff et al. 1994)
<i>Eucalyptus pauciflora</i>	W	0	GCGH	None	T2	(Roden et al. 1999)
<i>Eucalyptus rossii</i>	W	0	GCGH	None/Water	T1	(Roden & Ball 1996a)
<i>Eucalyptus rossii</i>	W	0	GCGH	None	F1	(Roden & Ball 1996b)
<i>Eucalyptus tetradonta</i>	W	0	TENT	None	T1	(Duff et al. 1994)
<i>Euphorbia esula</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Fagus</i>	W	0	GCGH	None	T2	(Overdieck 1993)
<i>Fagus grandifolia</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Fagus sylvatica</i>	W	0	GCGH	None	T2	(El Kohen et al. 1993)
<i>Fagus sylvatica</i>	W	0	GCGH	None/O ₃	T2	(Liu et al. 2004)
<i>Ferocactus acanthodes</i>	H	0	GCGH	None	F2	(Nobel & Hartsock 1986)
<i>Festuca arundinacea</i>	H	0	GCGH	None	T1	(Laing et al. 2002)
<i>Festuca elatior</i>	H	0	GCGH	None	F1	(Carter & Peterson 1983)
<i>Festuca ovina</i>	H	0	GCGH	None/Fert	T1	(Cotrufo & Gorissen 1997)
<i>Festuca ovina</i>	H	0	GCGH	None/Fert	F1/F3	(Hunt et al. 1995)
<i>Festuca pratensis</i>	H	0	OTC	None	F3	(Hakala & Mela 1996)
<i>Festuca pratensis</i>	H	0	GCGH	None	F3	(Smart & Penuelas 2005)
<i>Festuca rubra</i>	H	0	GCGH	None	F6	(Barnard et al. 2004)
<i>Festuca rubra</i>	H	0	GCGH	None/Fert	F1	(Goverde et al. 2002)
<i>Festuca rubra</i>	H	0	GCGH	None/Fert	F1/F3	(Hunt et al. 1995)
<i>Festuca vivipara</i>	H	0	OTC	None	F1	(Baxter et al. 1994)
<i>Ficus insipida</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)

<i>Ficus obtusifolia</i>	W	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Flaveria trinervia</i>	H	0	GCGH	None	T3	(Ziska et al. 1999)
<i>Fragaria ananassa</i>	H	0	GCGH	None/Fert	T3	(Chen & Lenz 1997)
<i>Fragaria ananassa</i>	H	0	GCGH	None/Fert	T1	(Deng & Woodward 1998)
<i>Fragaria x ananassa</i>	H	0	GCGH	None	F3	(Chen et al. 1997)
<i>Fraxinus excelsior</i>	W	0	OTC	None/O ₃ /Water	F2	(Broadmeadow & Jackson 2000)
<i>Fraxinus excelsior</i>	W	0	OTC	None	F3	(Hattenschwiler & Körner 2003)
<i>Fraxinus pennsylvanica</i>	W	0	GCGH	None	T5	(Loats & Rebbeck 1999)
<i>Garcinia mangostana</i>	W	0	GCGH	None	T1	(Downton et al. 1990)
<i>Gliricidia sepium</i>	W	1	GCGH	None/Fert	F1	(Thomas et al. 1991)
<i>Gliricidia sepium</i>	W	1	GCGH	None/Fert	T1	(Thomas et al. 2000)
<i>Gliricidia sepium</i>	W	1	GCGH	None	F1	(Tissue et al. 1997)
<i>Glycine max</i>	H	1	GCGH	None	T7	(Allen et al. 1988)
<i>Glycine max</i>	H	1	OTC	None	T1	(Amthor et al. 1994)
<i>Glycine max</i>	H	1	GCGH	None/Light	T2	(Bacanamwo & Harper 1997)
<i>Glycine max</i>	H	1		None/O ₃	T3	(Booker & Fiscus 2005)
<i>Glycine max</i>	H	1	GCGH	None	T1	(Bunce 1990)
<i>Glycine max</i>	H	1	GCGH	None	F4	(Cen & Layzell 2004)
<i>Glycine max</i>	H	1	GCGH	None	F2	(Cure et al. 1987)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1/F6	(Cure et al. 1988)
<i>Glycine max</i>	H	1	OTC	None	T4	(Gupta & Li 1994)
<i>Glycine max</i>	H	1	OTC	None	T3	(Heagle et al. 1999a)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1	(Israel et al. 1990)
<i>Glycine max</i>	H	1	OTC	None	T1	(Jones et al. 1984)
<i>Glycine max</i>	H	1	OTC	None/Fert	T1	(Li & Gupta 1993)
<i>Glycine max</i>	H	1	OTC	None/O ₃	T2	(Miller et al. 1998)
<i>Glycine max</i>	H	1	GCGH	None	T2	(Nakamoto et al. 2004)
<i>Glycine max</i>	H	1	GCGH	None	T1/T3	(Patterson & Flint 1980)
<i>Glycine max</i>	H	1	GCGH	None	T1/T7	(Patterson 1986)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1	(Patterson & Flint 1982)
<i>Glycine max</i>	H	1	GCGH	None	T1	(Rogers et al. 1992)
<i>Glycine max</i>	H	1	GCGH	None	F1/F2	(Rufty et al. 1981)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1	(Sa 1997)

<i>Glycine max</i>	H	1	GCGH	None/Water	T1/T2	(Serraj et al. 1999)
<i>Glycine max</i>	H	1	GCGH	None	F1	(Sicher et al. 1995)
<i>Glycine max</i>	H	1	GCGH	None/Temp	F1	(Sionit et al. 1987)
<i>Glycine max</i>	H	1	GCGH	None	F2	(Sionit et al. 1982)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1	(Sionit 1983)
<i>Glycine max</i>	H	1	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Glycine max</i>	H	1	GCGH	None/Fert	T1	(Williams et al. 1981)
<i>Glycine max</i>	H	1	GCGH	None	T1	(Xu et al. 1994)
<i>Glycine max</i>	H	1	GCGH	None/Temp	T2	(Ziska & Bunce 1997b)
<i>Glycine max</i>	H	1	GCGH	None/Temp	T3	(Ziska & Bunce 1995)
<i>Glycine max</i>	H	1	GCGH	None	T3	(Ziska et al. 2001)
<i>Gnaphalium affine</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Gossypium hirsutum</i>	H	0	GCGH	None	F1	(Delucia et al. 1985)
<i>Gossypium hirsutum</i>	H	0	OTC	None	T2/T3	(Heagle et al. 1999b)
<i>Gossypium hirsutum</i>	H	0	FACE	None	F1/F2	(Hendrix et al. 1994)
<i>Gossypium hirsutum</i>	H	0	GCGH	None/Water	T2	(Kang et al. 2002)
<i>Gossypium hirsutum</i>	H	0	OTC	None/Water	T3	(Kimball & Mauney 1993)
<i>Gossypium hirsutum</i>	H	0	GCGH	None/Temp	T4	(Patterson et al. 1988)
<i>Gossypium hirsutum</i>	H	0	FACE	None	T3/T4	(Prior et al. 1994)
<i>Gossypium hirsutum</i>	H	0	FACE	None	T1	(Prior et al. 1998)
<i>Gossypium hirsutum</i>	H	0	SPAR	None/Fert	T4	(Reddy et al. 2004)
<i>Gossypium hirsutum</i>	H	0	SPAR	None/Temp	T1	(Reddy et al. 1998)
<i>Gossypium hirsutum</i>	H	0	GCGH	None	F8	(Reddy et al. 1995)
<i>Gossypium hirsutum</i>	H	0	SPAR	None	F1	(Reddy et al. 1997)
<i>Gossypium hirsutum</i>	H	0	GCGH	None/Water	F5/F6	(Samarakoon & Gifford 1996)
<i>Gossypium hirsutum</i>	H	0	GCGH	None	F1	(Thomas & Strain 1991)
<i>Gossypium hirsutum</i>	H	0	FACE	None	T1	(Wood et al. 1994)
<i>Gossypium hirsutum</i>	H	0	GCGH	None/Fert	T1	(Yong et al. 2000)
<i>Gossypium hirsutum</i>	H	0	SPAR	None	T5	(Zhao et al. 2003)
<i>Gutierrezia microcephala</i>	H	0	GCGH	None	F4	(Polley et al. 1999a)
<i>Gutierrezia sarothrae</i>	H	0	GCGH	None/Fert	F1	(Rillig et al. 1997)
<i>Hedera helix</i>	H	0	OTC	None	F3	(Hattenschwiler & Körner 2003)
<i>Helianthus annuus</i>	H	0	GCGH	None/Pollution	T2	(Tang et al. 2003)

<i>Heterotheca subaxillaris</i>	H	0	GCGH	None	F1/T1	(Johnson & Lincoln 2000)
<i>Holcus lanatus</i>	H	0	GCGH	None	F2	(Barnard et al. 2004)
<i>Holcus lanatus</i>	H	0	OTC	None	F1	(Barnard et al. 2005)
<i>Holcus lanatus</i>	H	0	GCGH	None	T1	(Barnard et al. 2006)
<i>Hordeum distichum</i>	H	0	GCGH	None	F2/F4	(Hibberd et al. 1996)
<i>Hordeum distichum</i>	H	0	GCGH	None/Fert	T1	(Martin-Olmedo et al. 2002)
<i>Hordeum vulgare</i>	H	0	GCGH	None/Fert	F4	(Kleemola et al. 1994)
<i>Hordeum vulgare</i>	H	0	OTC	None	T2	(Saebo & Mortensen 1996)
<i>Hordeum vulgare</i>	H	0	GCGH	None/Fert	F1	(Sicher 2005)
<i>Ilex aquifolium</i>	W	0	OTC	None	F3	(Hattenschwiler & Körner 2003)
<i>Ipomoea batatas</i>	H	0	GCGH	None	T2	(Bhattacharya et al. 1985a)
<i>Ipomoea batatas</i>	H	0	OTC	None/Water	T1	(Bhattacharya et al. 1990)
<i>Ipomoea hederacea</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Ipomoea lacunosa</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Ipomoea purpurea</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Kalanchoe pinnata</i>	H	0	OTC	None	F2	(Winter et al. 1997)
<i>Kielmeyera coriacea</i>	W	0	GCGH	None	F1	(Hoffmann et al. 2000)
<i>Koeleria cristata</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Kummerowia struata</i>	H	1	GCGH	Fert	F1	(Tang et al. 2006)
<i>Lactuca sativa</i>	H	0	GCGH	None	T1	(Knight & Mitchell 1988)
<i>Lamium galeobdolon</i>	H	0	GCGH	None	F1	(Reining 1995)
<i>Larix kaempferi</i>	W	0	GCGH	None/Fert	T1	(Yazaki et al. 2004)
<i>Larix leptolepis</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Larix sibirica</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Larrea tridentata</i>	W	0	GCGH	None	F1	(BassiriRad et al. 1997b)
<i>Larrea tridentata</i>	W	0	GCGH	None	T2	(Obrist & Arnone III 2003)
<i>Ledum palustre</i>	W	0	GCGH	None/Fert	F19/F20	(Oechel et al. 1984)
<i>Lespedeza capitata</i>	H	1	FACE	None	T1	(Reich et al. 2001)
<i>Linum usitatissimum</i>	H	0	GCGH	None	F1	(Arnone & Kestenholz 1997)
<i>Liquidambar occidentalis</i>	W	0	OTC	None/Water	F1	(Tschapliniski et al. 1995)
<i>Liquidambar styraciflua</i>	W	0	GCGH	None	T1	(Sionit et al. 1985)
<i>Liquidambar styraciflua</i>	W	0	GCGH	None	T1	(Tolley & Strain 1984a)
<i>Liquidambar styraciflua</i>	W	0	GCGH	None	T2/T3	(Tolley & Strain 1984b)

<i>Liriodendron tulipifera</i>	W	0	GCGH	None	T6	(Loats & Rebbeck 1999)
<i>Liriodendron tulipifera</i>	W	0	OTC	None	F2	(Norby et al. 1992)
<i>Liriodendron tulipifera</i>	W	0	GCGH	None/Fert	T3	(Norby & O'Neil 1991)
<i>Liriodendron tulipifera</i>	W	0	GCGH	None	T1	(O'Neill et al. 1987a)
<i>Lolium multiflorum</i>	H	0	GCGH	None	T1	(Laing et al. 2002)
<i>Lolium multiflorum</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	F3	(Allard et al. 2006)
<i>Lolium perenne</i>	H	0	FACE	None/Fert	T1	(Bazot et al. 2006)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	T1	(Cotrufo & Gorissen 1997)
<i>Lolium perenne</i>	H	0	FACE	None/Fert	F1	(Daepf et al. 2001)
<i>Lolium perenne</i>	H	0	GCGH	None	T3	(van Ginkel et al. 1996)
<i>Lolium perenne</i>	H	0	GCGH	None	F1/F2	(Gloser et al. 2001)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	T1a	(Gorissen 1996)
<i>Lolium perenne</i>	H	0	GCGH	None	T2	(Hall et al. 1998)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	T2	(Hartwig et al. 2002)
<i>Lolium perenne</i>	H	0	FACE	None/Fert	F1/F4	(Hebeisen et al. 1997b)
<i>Lolium perenne</i>	H	0	FACE	None/Fert	F2	(Hebeisen et al. 1997a)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	T1	(Hodge et al. 1998)
<i>Lolium perenne</i>	H	0	GCGH	None	T1	(Laing et al. 2002)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	F1	(Marks & Clay 1990)
<i>Lolium perenne</i>	H	0	GCGH	None	F3/F3	(Nijs & Impens 1997)
<i>Lolium perenne</i>	H	0	GCGH	None	F1	(Overdieck & Reining 1986)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	T3	(Paterson et al. 1999)
<i>Lolium perenne</i>	H	0	GCGH	None	T1	(Paterson et al. 1996)
<i>Lolium perenne</i>	H	0	GCGH	None	F1	(Ryle et al. 1992b)
<i>Lolium perenne</i>	H	0	GCGH	None	F1	(Schenk et al. 1995)
<i>Lolium perenne</i>	H	0	FACE	None	F1	(Suter et al. 2002)
<i>Lolium perenne</i>	H	0	GCGH	None/Fert	F1	(Suter et al. 2002)
<i>Lolium perenne</i>	H	0	FACE	None	F4	(Suter et al. 2001)
<i>Lolium perenne</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Lolium temulentum</i>	H	0	GCGH	None/Light	T4	(Gay & Hauck 1994)
<i>Lolium temulentum</i>	H	0	GCGH	None/Light	F1	(Lewis et al. 1999)
<i>Lonicera japonica</i>	W	0	GCGH	None	F2	(Sasek & Strain 1991)

<i>Lonicera sempervirens</i>	W	0	GCGH	None	F2	(Sasek & Strain 1991)
<i>Lotus corniculatus</i>	H	1	GCGH	None/Herbivory	F1	(Bazin et al. 2002)
<i>Lotus corniculatus</i>	H	1	GCGH	None/Water	F2/F4	(Carter et al. 1997)
<i>Lotus corniculatus</i>	H	1	GCGH	None	T1/F4	(Ferris & Taylor 1993)
<i>Luehea seemannii</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Lupinus albus</i>	H	1	GCGH	None	F1	(Campbell & Sage 2002)
<i>Lupinus albus</i>	H	1	GCGH	None/Fert	T1	(Wasaki et al. 2005)
<i>Lupinus perennis</i>	H	1	FACE	None	T1	(Reich et al. 2001)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	T1	(Bunce 1990)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	T1	(Fierro et al. 1994)
<i>Lycopersicon esculentum</i>	H	0	CSTR	None/O ₃ /UVB	T3	(Hao et al. 2000)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None/O ₃	T4	(Olszyk & Wise 1997)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	T3	(Vanoosten et al. 1995)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None/Water	T1/T2	(Paez et al. 1984)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	F3	(Schaffer et al. 1997)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	T1	(Stanghellini & Bunce 1993)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None	T1	(Tognoni et al. 1967)
<i>Lycopersicon esculentum</i>	H	0	GCGH	None/Temp	F1	(Yelle et al. 1987)
<i>Macadamia integrifolia</i>	W	0	GCGH	None	F3	(Schaffer et al. 1999)
<i>Malus domestica</i>	W	0	GCGH	None	T1	(Chen et al. 2002)
<i>Mangifera indica</i>	W	0	GCGH	None	F7	(Goodfellow et al. 1997)
<i>Mangifera indica</i>	W	0	GCGH	None	F3	(Schaffer et al. 1999)
<i>Manihot esculenta</i>	H	0	OTC	None	F3	(Fernandez et al. 2002)
<i>Maranthus corymbosa</i>	W	0	Tent	None	T4	(Berryman et al. 1993)
<i>Medicago glomerata</i>	H	1	GCGH	None	T2	(Roumet et al. 2000)
<i>Medicago lupulina</i>	H	1	GCGH	Fert	F1	(Tang et al. 2006)
<i>Medicago minima</i>	H	1	GCGH	None	T2	(Roumet et al. 2000)
<i>Medicago sativa</i>	H	1	GCGH	None	T1	(De Luis et al. 2002)
<i>Medicago sativa</i>	H	1	GCGH	None/Fert	T1	(MacDowall 1983)
<i>Medicago sativa</i>	H	1	GCGH	None/Temp	T1	(Ziska & Bunce 1994)
<i>Musa sp.</i>	H	0	GCGH	None	T5	(Schaffer et al. 1996)
<i>Musa sp.</i>	H	0	GCGH	None	T2	(Schaffer et al. 1999)
<i>Myriocarpa longpipes</i>	W	0	GCGH	None	F1	(Reekie & Bazzaz 1989)

<i>Nerium oleander</i>	W	0	GCGH	None	T5	(Downton & Grant 1994)
<i>Nicotiana glauca</i>	H	0	GCGH	None/Herbivory	F1/F3	(Hughes & Bazzaz 2001)
<i>Nicotiana tabacum</i>	H	0	GCGH	None	T1	(Blaschke et al. 2004)
<i>Nicotiana tabacum</i>	H	0	GCGH	None	F4	(Masle et al. 1993)
<i>Nicotiana tabacum</i>	H	0	GCGH	None	F1	(Matt et al. 2001)
<i>Nicotiana tabacum</i>	H	0	GCGH	None	F1	(Schlimme et al. 2002)
<i>Ochroma lagopus</i>	W	0	GCGH	None	T1	(Oberbauer et al. 1985)
<i>Oenothera biennis</i>	H	0	GCGH	None/Herbivory	F1/F3	(Hughes & Bazzaz 2001)
<i>Opuntia ficus-indica</i>	H	0	GCGH	None	F8	(Cui & Nobel 1994)
<i>Opuntia ficus-indica</i>	H	0	GCGH	None	T1	(Nobel & de Cortazar 1991)
<i>Opuntia ficus-indica</i>	H	0	GCGH	None	F5	(Nobel et al. 1994)
<i>Orontium aquaticum</i>	H	0	GCGH	None	T2	(Magonigal & Schlesinger 1997)
<i>Orontium aquaticum</i>	H	0	GCGH	None/Flooding	T1	(Magonigal et al. 2005)
<i>Oryza sativa</i>	H	0	GCGH	None	T1	(Aoki et al. 2003)
<i>Oryza sativa</i>	H	0	GCGH	None	T3	(Baker et al. 1994)
<i>Oryza sativa</i>	H	0	GCGH	None	T1	(Baker et al. 1990)
<i>Oryza sativa</i>	H	0	GCGH	None	T2	(Cheng et al. 2006)
<i>Oryza sativa</i>	H	0	OTC	None	F5/F6	(De Costa et al. 2003)
<i>Oryza sativa</i>	H	0	GCGH	None	F4	(Fordham et al. 1997)
<i>Oryza sativa</i>	H	0	FACE	None/Fert	T1	(Kim et al. 2001)
<i>Oryza sativa</i>	H	0	TGC	None	T1	(Kim et al. 1996)
<i>Oryza sativa</i>	H	0	OTC	None/Fert	F1	(Li et al. 2004)
<i>Oryza sativa</i>	H	0	OTC	None	F1/T1	(Lin & Wang 1998)
<i>Oryza sativa</i>	H	0	GCGH	None	T1	(Makino et al. 1997)
<i>Oryza sativa</i>	H	0	OTC	None	T3/F3/F4	(Moya et al. 1998)
<i>Oryza sativa</i>	H	0	GCGH	None/O ₃	T2	(Olszyk & Wise 1997)
<i>Oryza sativa</i>	H	0	OTC	None	T2	(Weerakoon et al. 1999)
<i>Oryza sativa</i>	H	0	GCGH	None	T2/F5	(Ziska & Teramura 1992b)
<i>Oryza sativa</i>	H	0	OTC	None	T1/T2	(Ziska et al. 1997)
<i>Oryza sativa</i>	H	0	GCGH	None/UVB	T1	(Ziska & Teramura 1992a)
<i>Oryzopsis hymenoides</i>	H	0	GCGH	None	T2	(Smith et al. 1987)
<i>Panicum antidotale</i>	H	0	GCGH	None	T1	(Ghannoum et al. 1997)
<i>Panicum antidotale</i>	H	0	GCGH	None/Fert	T1	(Ghannoum & Conroy 1998)

<i>Panicum coloratum</i>	H	0	GCGH	None/Fert	T1	(Ghannoum & Conroy 1998)
<i>Panicum dichotomoflorum</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Panicum dichotomoflorum</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Panicum laxum</i>	H	0	GCGH	None	T1	(Ghannoum et al. 1997)
<i>Panicum laxum</i>	H	0	GCGH	None/Fert	T1	(Ghannoum & Conroy 1998)
<i>Panicum maximum</i>	H	0	GCGH	None	T3	(Ziska et al. 1999)
<i>Panicum miliaceum</i>	H	0	GCGH	None	T3	(Ziska et al. 1999)
<i>Panicum virgatum</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)
<i>Pascopyrum smithii</i>	H	0	GCGH	None	T1	(Hunt et al. 1996)
<i>Pascopyrum smithii</i>	H	0	GCGH	None	F1	(Read & Morgan 1996)
<i>Paspalum conjugatum</i>	H	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Pentaclethra macroloba</i>	W	0	GCGH	None	T1	(Oberbauer et al. 1985)
<i>Persea americana</i>	W	0	GCGH	None	F3	(Schaffer et al. 1999)
<i>Petalostemum villosum</i>	H	1	FACE	None	T1	(Reich et al. 2001)
<i>Phalaris aquatica</i>	H	0	Tunnels	None	F7	(Lilley et al. 2001)
<i>Phalaris arundinacea</i>	H	0	GCGH	None/Fert/Water	F2	(Stock & Evans 2006)
<i>Pharus latifolius</i>	H	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Phaseolus acutifolius</i>	H	1	GCGH	None	T1	(Salsman et al. 1999)
<i>Phaseolus radiatus</i>	H	1	OTC	None	T1	(Srivastava et al. 2001)
<i>Phaseolus vulgaris</i>	H	1	OTC	None/O ₃	T3	(Heagle et al. 2002)
<i>Phaseolus vulgaris</i>	H	1	GCGH	None/Fert	F5	(Jifon & Wolfe 2002)
<i>Phaseolus vulgaris</i>	H	1	GCGH	None/Fert	F2	(Radoglou & Jarvis 1992)
<i>Phaseolus vulgaris</i>	H	1	GCGH	None	T1	(Salsman et al. 1999)
<i>Phaseolus vulgaris</i>	H	1	GCGH	None	T2	(Tognoni et al. 1967)
<i>Phleum pratense</i>	H	0	GCGH	None/Fert	F3	(Kettunen et al. 2005)
<i>Phleum pratense</i>	H	0	GCGH	None/Defol/Herbiv/Nemato	T3	(Wilsey 2001)
<i>Physalis peruviana</i>	H	0	GCGH	None/Fert/Water	F1	(Stock & Evans 2006)
<i>Phytolacca americana</i>	H	0	GCGH	None	F1	(He & Bazzaz 2003)
<i>Phytolacca americana</i>	H	0	GCGH	None	F1	(He et al. 2005)
<i>Picea abies</i>	W	0	GCGH	None/Fert	F1	(Hattenschwiler & Körner 1998)
<i>Picea abies</i>	W	0	GCGH	None	T7	(Lippert et al. 1996)
<i>Picea abies</i>	W	0	GCGH	None/O ₃	T2	(Liu et al. 2004)
<i>Picea abies</i>	W	0	GCGH	None	F1	(Loewe et al. 2000)

<i>Picea abies</i>	W	0	GCGH	None	T2	(Mortensen 1994a)
<i>Picea abies</i>	W	0	GCGH	None	T3	(Mortensen 1994c)
<i>Picea abies</i>	W	0	OTC	None	T2/T3	(Vanhatalo et al. 2003)
<i>Picea abies</i>	W	0	GCGH	None	F2	(Zebian & Reekie 1998)
<i>Picea glauca</i>	W	0	GCGH	None/Fert	T2	(Brown & Higginbotham 1986)
<i>Picea glauca</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Picea glauca</i>	W	0	GCGH	None/UVB	T3	(Yakimchuk & Hoddinott 1994)
<i>Picea mariana</i>	W	0	GCGH	None/UVB	T3	(Yakimchuk & Hoddinott 1994)
<i>Picea rubens</i>	W	0	GCGH	None	T3	(Samuelson & Seiler 1993b)
<i>Picea rubens</i>	W	0	GCGH	None	T2	(Samuelson & Seiler 1993a)
<i>Picea sitchensis</i>	W	0	OTC	None	F3	(Centritto et al. 1999)
<i>Picea sitchensis</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Picea sitchensis</i>	W	0	OTC	None/Fert	F8	(Murray et al. 2000)
<i>Picea sitchensis</i>	W	0	OTC	None	F2	(Murray et al. 1996)
<i>Pinus banksiana</i>	W	0	GCGH	None/Fert	F5	(Cantin et al. 1996)
<i>Pinus banksiana</i>	W	0	GCGH	None/UVB	F1	(Stewart & Hoddinott 1993)
<i>Pinus banksiana</i>	W	0	GCGH	None/UVB	T3	(Yakimchuk & Hoddinott 1994)
<i>Pinus contorta</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Pinus densiflora</i>	W	0	GCGH	None	F1	(Choi et al. 2005)
<i>Pinus echinata</i>	W	0	GCGH	None	T1	(Norby et al. 1987)
<i>Pinus echinata</i>	W	0	GCGH	None	T1	(O'Neill et al. 1987b)
<i>Pinus halepensis</i>	W	0	GCGH	None/O ₃	T2	(Kytoviita et al. 1999)
<i>Pinus halepensis</i>	W	0	GCGH	None	T1	(Kytoviita et al. 2001)
<i>Pinus jeffreyi</i>	W	0	GCGH	None	F3	(Verburg et al. 2004)
<i>Pinus mugo</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Pinus nigra</i>	W	0	GCGH	None	T3	(Kaushal et al. 1989)
<i>Pinus palustris</i>	W	0	OTC	None/Fert	T1	(Entry et al. 1998)
<i>Pinus palustris</i>	W	0	OTC	None/Fert	F1	(Prior et al. 1997)
<i>Pinus palustris</i>	W	0	OTC	None/Water	T1	(Runion et al. 1999)
<i>Pinus pinaster</i>	W	0	Tunnel	None/Water	T1	(Guehl et al. 1994)
<i>Pinus ponderosa</i>	W	0	GCGH	None	T1	(BassiriRad et al. 1996a)
<i>Pinus ponderosa</i>	W	0	GCGH	None	F1	(BassiriRad et al. 1997a)
<i>Pinus ponderosa</i>	W	0	GCGH	None	T3	(Callaway et al. 1994)

<i>Pinus ponderosa</i>	W	0	GCGH	None/Fert	F1	(Griffin et al. 1995)
<i>Pinus ponderosa</i>	W	0	GCGH	None/Fert	T1	(Griffin et al. 1997)
<i>Pinus ponderosa</i>	W	0	GCGH	None	F1	(Maherali & DeLucia 2000)
<i>Pinus ponderosa</i>	W	0	OTC	None/Fert	T1	(Walker et al. 1997)
<i>Pinus ponderosa</i>	W	0	OTC	None/Fert	T1	(Walker et al. 1998)
<i>Pinus radiata</i>	W	0	GCGH	None/Water	F1/T1/T4	(Conroy & Barlow 1986)
<i>Pinus radiata</i>	W	0	GCGH	None	T1/T3	(Conroy et al. 1990)
<i>Pinus silvestris</i>	W	0	GCGH	None	F1	(Ineichen et al. 1995)
<i>Pinus strobus</i>	W	0	GCGH	None	F1	(Bauer & Berntson 2001)
<i>Pinus strobus</i>	W	0	GCGH	None	F1	(Bauer & Berntson 2001)
<i>Pinus strobus</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Pinus strobus</i>	W	0	GCGH	None	T1	(Godbold et al. 1997)
<i>Pinus sylvestris</i>	W	0	OTC	None/O ₃ /Water	F2	(Broadmeadow & Jackson 2000)
<i>Pinus sylvestris</i>	W	0	GCGH	None	F2	(Fransson et al. 2005)
<i>Pinus sylvestris</i>	W	0	GCGH	None	T1	(Gorissen & Kuyper 2000)
<i>Pinus sylvestris</i>	W	0	OTC	None	F1	(Jach et al. 2000)
<i>Pinus sylvestris</i>	W	0	GCGH	None	T1	(Markkola et al. 1996)
<i>Pinus sylvestris</i>	W	0	GCGH	None	T5	(Mortensen 1994c)
<i>Pinus sylvestris</i>	W	0	GCGH	None	F1	(Rouhier & Read 1998a)
<i>Pinus sylvestris</i>	W	0	OTC	None	T4	(Temperton et al. 2003b)
<i>Pinus sylvestris</i>	W	0	OTC	None	T4	(Vanhatalo et al. 2003)
<i>Pinus taeda</i>	W	0	GCGH	None	T1	(BassiriRad et al. 1996a)
<i>Pinus taeda</i>	W	0	GCGH	None	F1	(BassiriRad et al. 1997a)
<i>Pinus taeda</i>	W	0	GCGH	None/Fert	F1	(Griffin et al. 1995)
<i>Pinus taeda</i>	W	0	GCGH	None/Fert	T1	(Griffin et al. 1997)
<i>Pinus taeda</i>	W	0	GCGH	None	T2	(Hussain et al. 2001)
<i>Pinus taeda</i>	W	0	GCGH	None/Fert	F1/F1	(Larigauderie et al. 1994)
<i>Pinus taeda</i>	W	0	GCGH	None	T1	(Lewis & Strain 1996)
<i>Pinus taeda</i>	W	0	GCGH	None	T1	(Lewis et al. 1994)
<i>Pinus taeda</i>	W	0	GCGH	None	T1	(Sionit et al. 1985)
<i>Pinus taeda</i>	W	0	GCGH	None	F1/T1	(Sullivan & Teramure 1994)
<i>Pinus taeda</i>	W	0	OTC	None	T1	(Tissue et al. 1996)
<i>Pinus taeda</i>	W	0	GCGH	None	T1	(Tolley & Strain 1984a)

<i>Pinus taeda</i>	W	0	GCGH	None	T2/T3	(Tolley & Strain 1984b)
<i>Pinus taeda</i>	W	0	GCGH	None	F2	(Tschaplinski et al. 1993)
<i>Pinus taeda</i>	W	0	GCGH	None	F1	(Will & Teskey 1997)
<i>Piper auritum</i>	W	0	GCGH	None	F1	(Reekie & Bazzaz 1989)
<i>Pisum sativum</i>	H	1	GCGH	None	T1	(Cabrerizo et al. 2001)
<i>Pisum sativum</i>	H	1	GCGH	None/Fert	F1	(Gavito et al. 2000)
<i>Pisum sativum</i>	H	1	GCGH	None	F1	(Gavito et al. 2003)
<i>Pisum sativum</i>	H	1	GCGH	None	F4	(Gavito et al. 2002)
<i>Pisum sativum</i>	H	1	GCGH	None	T2	(Musgrave et al. 1986)
<i>Pisum sativum</i>	H	1	GCGH	None	T1	(Paez et al. 1983)
<i>Plantago lanceolata</i>	H	0	GCGH	None/Herbivory	T1	(Fajer et al. 1991)
<i>Plantago lanceolata</i>	H	0	GCGH	None/Fert	F1	(Rouhier & Read 1998b)
<i>Plantago major</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Plantago media</i>	H	0	GCGH	None	T1/F4	(Ferris & Taylor 1993)
<i>Plantago virginica</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Platanus occidentalis</i>	W	0	OTC	None/Water	F1	(Tschaplinski et al. 1995)
<i>Pleuraphis rigida</i>	H	0	GCGH	None	T2	(Yoder et al. 2000)
<i>Pleuraphis rigida</i>	H	0	GCGH	None	T2	(Yoder et al. 2000)
<i>Poa alpina</i>	H	0	OTC	None	F1	(Baxter et al. 1994)
<i>Poa alpina</i>	H	0	GCGH	None/Fert	T1	(Baxter et al. 1997)
<i>Poa annua</i>	H	0	GCGH	None/Fert	F1/F3	(Hunt et al. 1995)
<i>Poa annua</i>	H	0	Solardome	None/Temp	F1	(Stirling et al. 1998)
<i>Poa annua</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Poa pratensis</i>	H	0	GCGH	None/Fert	F1	(Goverde et al. 2002)
<i>Poa pratensis</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Poa pratensis</i>	H	0	GCGH	None/Defol/Herbiv/Nemato	T3	(Wilsey 2001)
<i>Polygonum hydropiper</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Polygonum lapathifolium</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Polygonum pensylvanicum</i>	H	0	GCGH	None	F1	(Bernacchi et al. 2000)
<i>Polygonum pensylvanicum</i>	H	0	GCGH	None/SO ₂	F1/T1	(Carlson & Bazzaz 1982)
<i>Polygonum persicaria</i>	H	0	GCGH	None	T2	(Farnsworth & Bazzaz 1995)
<i>Populus euramericana</i>	W	0	GCGH	None	T2	(Bosac et al. 1995)
<i>Populus alba</i>	W	0	FACE	None	T2	(Calfapietra et al. 2003)

<i>Populus deltoides</i>	W	0	GCGH	None	T1	(Wait et al. 1999)
<i>Populus deltoides x P. nigra</i>	W	0	OTC	None/O ₃	F2	(Dickson et al. 1998)
<i>Populus grandidentata</i>	W	0	OTC	None	T1	(Zak et al. 1993)
<i>Populus nigra</i>	W	0	FACE	None	T2	(Calfapietra et al. 2003)
<i>Populus nigra x P. maximowiczii</i>	W	0	OTC	None/O ₃	F2	(Dickson et al. 1998)
<i>Populus tremuloides</i>	W	0	FACE	None	F1	(King et al. 2005)
<i>Populus tremula x P. alba</i>	W	0	GCGH	None/Fert	F2	(Kruse et al. 2003)
<i>Populus tremula x P. tremuloides</i>	W	0	GCGH	None	F1	(Loewe et al. 2000)
<i>Populus tremuloides</i>	W	0	GCGH	None/Fert	T3	(Brown & Higginbotham 1986)
<i>Populus tremuloides</i>	W	0	GCGH	None/Fert/O ₃	F3/T2	(Volin & Reich 1996)
<i>Populus tremuloides</i>	W	0	OTC	None/Fert	T5	(Wang & Curtis 2001)
<i>Populus tremuloides</i>	W	0	OTC	None/Fert	T1	(Zak et al. 2000)
<i>Populus trichocarpa</i>	W	0	CTC	None/Fert	T3	(Sigurdsson et al. 2001)
<i>Populus x euramericana</i>	W	0	FACE	None	T2	(Calfapietra et al. 2003)
<i>Populus x euramericana</i>	W	0	OTC	None/Fert	T1	(Pregitzer et al. 1995)
<i>Prosopis flexuosa</i>	W	1	GCGH	None/Fert	F1	(Causin et al. 2004)
<i>Prosopis glandulosa</i>	W	1	GCGH	None	F1	(BassiriRad et al. 1997b)
<i>Prosopis glandulosa</i>	W	1	GCGH	None/Fert	F1	(Causin et al. 2004)
<i>Prosopis glandulosa</i>	W	1	GCGH	None	T3	(Derner et al. 2005)
<i>Prosopis glandulosa</i>	W	1	GCGH	None	F3	(Polley et al. 1996)
<i>Prosopis glandulosa</i>	W	1	GCGH	None	T1/T3	(Polley et al. 1999b)
<i>Prunella vulgaris</i>	H	0	GCGH	None	T1	(Sanders et al. 1998)
<i>Prunus avium</i>	W	0	BALLOON	None	T3	(Druta 2001)
<i>Prunus avium</i>	W	0	GCGH	None/Fert	T2	(Wilkins et al. 1994)
<i>Prunus avium x pseudocerasus</i>	W	0	GCGH	None	T4	(Atkinson et al. 1997)
<i>Prunus laurocerasus</i>	W	0	OTC	None	F3	(Hattenschwiler & Körner 2003)
<i>Prunus persica</i>	W	0	OTC	None/Water	F3	(Centritto et al. 2002)
<i>Prunus serotina</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Prunus serotina</i>	W	0	GCGH	None	T4	(Loats & Rebbeck 1999)
<i>Pseudobombax septenatum</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Pseudotsuga menziesii</i>	W	0	GCGH	None	T1	(Gorissen 1996)
<i>Pseudotsuga menziesii</i>	W	0	GCGH	None	T4	(Mortensen 1994c)
<i>Pseudotsuga menziesii</i>	W	0	OTC	None	F1	(Olszyk et al. 2003)

<i>Pseudotsuga menziesii</i>	W	0	OTC	None	F3	(Tingey et al. 2003)
<i>Psychotria limonensis</i>	W	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Puccinellia maritima</i>	H	0	GCGH	None/Salt	T3	(Lenssen et al. 1995)
<i>Pueraria lobata</i>	W	1	GCGH	None	T6	(Sasek & Strain 1988)
<i>Pueraria lobata</i>	W	1	GCGH	None	F4	(Sasek & Strain 1990)
<i>Quercus alba</i>	W	0	GCGH	None	F1	(Norby et al. 1986)
<i>Quercus alba</i>	W	0	OTC	None	T1	(Norby et al. 1995)
<i>Quercus alba</i>	W	0	GCGH	None/Fert	T2	(Norby & O'Neil 1989)
<i>Quercus alba</i>	W	0	GCGH	None	T2	(O'Neill et al. 1987b)
<i>Quercus cerrioides</i>	W	0	GCGH	None	F2	(Cortes et al. 2004)
<i>Quercus ilex</i>	W	0	GCGH	None	F5	(Aranda et al. 2006)
<i>Quercus ilex</i>	W	0	GCGH	None	F2	(Cortes et al. 2004)
<i>Quercus petraea</i>	W	0	OTC	None/O ₃ /Water	F2	(Broadmeadow & Jackson 2000)
<i>Quercus petraea</i>	W	0	Tunnel	None/Water	T1	(Guehl et al. 1994)
<i>Quercus robur</i>	W	0	OTC	None/O ₃ /Water	F3	(Broadmeadow et al. 1999)
<i>Quercus robur</i>	W	0	GCGH	None	Text	(George et al. 1996)
<i>Quercus robur</i>	W	0	GCGH	None/Fert	F1	(Maillard et al. 2001)
<i>Quercus robur</i>	W	0	Tunnel	None/Water	T2	(Picon et al. 1997)
<i>Quercus robur</i>	W	0	Tunnel	None/Water	F5	(Picon et al. 1996)
<i>Quercus robur</i>	W	0	GCGH	None	T2	(Seegmuller & Rennenberg 1994)
<i>Quercus robur</i>	W	0	GCGH	None	T1	(Vivin et al. 1996b)
<i>Quercus robur</i>	W	0	Tunnel	None/Water	T2	(Vivin & Guehl 1997)
<i>Quercus robur</i>	W	0	Tunnel	None	T1	(Vivin et al. 1995)
<i>Quercus rubra</i>	W	0	GCGH	None	T3	(Anderson & Tomlinson 1998)
<i>Quercus rubra</i>	W	0	GCGH	None/Light	T1	(Cavender-Bares et al. 2000)
<i>Quercus rubra</i>	W	0	GCGH	None	T2	(Miao 1995)
<i>Quercus rubra</i>	W	0	Tunnel	None/Water	T2	(Vivin et al. 1996a)
<i>Quercus suber</i>	W	0	GCGH	None	F2	(Damesin et al. 1996)
<i>Quercus suber</i>	W	0	GCGH	None/Fert	T1	(Maroco et al. 2002)
<i>Quercus suber</i>	W	0	GCGH	None/Light/Water	F2	(Pardos et al. 2006)
<i>Quercus virginiana</i>	W	0	OTC	None/Fert	T1	(Tognetti & Johnson 1999)
<i>Raphanus hybrid</i>	H	0	GCGH	None	F1	(Chu & Coleman 1992)
<i>Raphanus raphanistrum</i>	H	0	GCGH	None/Fert	F2	(Jablonski 1997)

<i>Raphanus sativus</i>	H	0	GCGH	None/Fert	F2	(Jablonski 1997)
<i>Raphanus sativus</i>	H	0	GCGH	None	F2	(Overdieck et al. 1988)
<i>Raphanus sativus</i>	H	0	GCGH	None	F2	(Sionit et al. 1982)
<i>Raphanus sativus</i>	H	0	GCGH	None	F1	(Usuda & Shimogawara 1998)
<i>Ricinus communis</i>	H	0	GCGH	None	T2	(Arnone & Körner 1993)
<i>Robinia pseudoacacia</i>	W	1	GCGH	None	T1	(Norby 1987)
<i>Robinia pseudoacacia</i>	W	1	GCGH	None/Fert	T1	(Olesniewicz & Thomas 1999)
<i>Robinia pseudoacacia</i>	W	1	GCGH	None/Fert/Temp	F2	(Uselman et al. 2000)
<i>Rottboellia exaltata</i>	H	0	GCGH	None	T1/T3	(Patterson & Flint 1980)
<i>Rumex crispus</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Rumex obtusifolius</i>	H	0	Solardome	None/Herbivory	F6	(Pearson & Brooks 1996)
<i>Rumex obtusifolius</i>	H	0	Solardome	None	F7	(Pearson & Brooks 1995)
<i>Saccharum officinarum</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Sanguisorba minor</i>	H	0	GCGH	None	T1/F4	(Ferris & Taylor 1993)
<i>Sanguisorba minor</i>	H	0	GCGH	None	T2	(Ferris & Taylor 1995)
<i>Sanguisorba minor</i>	H	0	GCGH	None	T1	(Wieneke et al. 2004)
<i>Schizachyrium scoparium</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)
<i>Schizachyrium scoparium</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Scirpus olneyi</i>	H	0	OTC	None	F1	(Dakora & Drake 2000)
<i>Senecio vulgaris</i>	H	0	Solardome	None	F1	(Stirling et al. 1998)
<i>Senna multijuga</i>	W	0	GCGH	None	F1	(Reekie & Bazzaz 1989)
<i>Setaria faberi</i>	H	0	GCGH	None	F1/T1	(Carlson & Bazzaz 1982)
<i>Setaria faberi</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Setaria glauca</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Setaria lutescens</i>	H	0	GCGH	None/SO ₂	F1/T1	(Carlson & Bazzaz 1982)
<i>Setaria viridis</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Silene latifolia</i>	H	0	GCGH	None	T2	(Wang & Griffin 2003)
<i>Sinapis alba</i>	H	0	GCGH	None/Water	T1	(Retuerto & Woodward 1993)
<i>Solanum dulcamara</i>	H	0	GCGH	None/Infestation	F2	(Flynn et al. 2006)
<i>Solanum dulcamara</i>	H	0	GCGH	None/Herbivory	F1/F3	(Hughes & Bazzaz 2001)
<i>Solanum muricatum</i>	H	0	GCGH	None/Salt	T4	(Chen et al. 1999)
<i>Solanum tuberosum</i>	H	0	GCGH	None/Temp	T1/T4	(Cao et al. 1994)
<i>Solanum tuberosum</i>	H	0	GCGH	None	F2	(Chen & Setter 2003)

<i>Solanum tuberosum</i>	H	0	OTC	None/O ₃	T3	(Craigon et al. 2002)
<i>Solanum tuberosum</i>	H	0	OTC	None/O ₃	T1	(Donnelly et al. 2001)
<i>Solanum tuberosum</i>	H	0	OTC	None/O ₃	T2	(Fangmeier et al. 2002)
<i>Solanum tuberosum</i>	H	0	OTC	None/O ₃	T3	(Heagle et al. 2003)
<i>Solanum tuberosum</i>	H	0	OTC	None/O ₃	T5	(Lawson et al. 2001)
<i>Solanum tuberosum</i>	H	0	OTC	None	T1	(Schapendonk et al. 2000)
<i>Solanum tuberosum</i>	H	0	GCGH	None	T3	(Wheeler et al. 1991)
<i>Solidago rigida</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Sonchus arvensis</i>	H	0	GCGH	None	T3	(Ziska 2003)
<i>Sorghastrum nutans</i>	H	0	GCGH	None	F1	(LeCain & Morgan 1998)
<i>Sorghastrum nutans</i>	H	0	FACE	None	T1	(Reich et al. 2001)
<i>Sorghum bicolor</i>	H	0	OTC	None	T1	(Amthor et al. 1994)
<i>Sorghum bicolor</i>	H	0	GCGH	None	T3	(Chaudhuri et al. 1986)
<i>Sorghum bicolor</i>	H	0	GCGH	None/Root herbivory	T1	(Watling & Press 1997)
<i>Sorghum bicolor</i>	H	0	GCGH	None	T1	(Ziska & Bunce 1999)
<i>Sorghum bicolor</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Sorghum halepense</i>	H	0	GCGH	None	F1	(Carter & Peterson 1983)
<i>Sorghum halepense</i>	H	0	GCGH	None	F1/F4	(Tremmel & Patterson 1993)
<i>Sorghum halepense</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)
<i>Spartina anglica</i>	H	0	GCGH	None	T5	(Lenssen et al. 1993)
<i>Spartina patens</i>	H	0	OTC	None	F1	(Dakora & Drake 2000)
<i>Sporobolus kentrophyllus</i>	H	0	GCGH	None	F1	(Wilsey et al. 1994)
<i>Stellaria holostea</i>	H	0	GCGH	None	F1	(Reining 1995)
<i>Stipa occidentalis</i>	H	0	GCGH	None/Fert	F1	(Wilsey 1996)
<i>Stipa thurberiana</i>	H	0	GCGH	None	F2	(Lucash et al. 2005)
<i>Tabebuia rosea</i>	W	0	GCGH	None	T1	(Ziska et al. 1991)
<i>Taraxacum officinale</i>	H	0	GCGH	None	T4	(Thomas et al. 1999)
<i>Taxodium distichum</i>	W	0	GCGH	None/Flooding	T1	(Megonigal et al. 2005)
<i>Taxodium distichum</i>	W	0	GCGH	None	F2	(Vann & Megonigal 2002)
<i>Tetragastris panamensis</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Themeda triandra</i>	H	0	GCGH	None/UVB	F5	(Wand et al. 1996)
<i>Trichospermum mexicanum</i>	W	0	GCGH	None	F1	(Reekie & Bazzaz 1989)
<i>Tridens flavus</i>	H	0	GCGH	None/Fert	F3	(Marks & Clay 1990)

<i>Trifolium repens</i>	H	1	GCGH	None	T1	(Almeida et al. 1999)
<i>Trifolium repens</i>	H	1	GCGH	None	T1	(Dale & Press 1998)
<i>Trifolium repens</i>	H	1	GCGH	None	T2	(Deckmyn et al. 2001)
<i>Trifolium repens</i>	H	1	GCGH	None	T1	(Gunn et al. 1999)
<i>Trifolium repens</i>	H	1	OTC	None/O ₃	T4	(Heagle et al. 1993)
<i>Trifolium repens</i>	H	1	FACE	None/Fert	F1/F4	(Hebeisen et al. 1997b)
<i>Trifolium repens</i>	H	1	FACE	None/Fert	F2	(Hebeisen et al. 1997a)
<i>Trifolium repens</i>	H	1	GCGH	None	F1	(Jongen et al. 1996)
<i>Trifolium repens</i>	H	1	GCGH	None	T1	(Laing et al. 2002)
<i>Trifolium repens</i>	H	1	GCGH	None	F2	(Ryle et al. 1992a)
<i>Trifolium repens</i>	H	1	GCGH	None	F3	(Schenk et al. 1995)
<i>Trifolium subterraneum</i>	H	1	Tunnels	None	F7	(Lilley et al. 2001)
<i>Triticum aestivum</i>	H	0	OTC	None	T1/T3	(Kendall et al. 1985)
<i>Triticum aestivum</i>	H	0	OTC	None	T1	(Ronn et al. 2003)
<i>Triticum aestivum</i>	H	0	GCGH	None	T2	(Andre et al. 1989)
<i>Triticum aestivum</i>	H	0	GCGH	None/O ₃	F3	(Barnes et al. 1995)
<i>Triticum aestivum</i>	H	0	GCGH	None	F3	(Bencze et al. 2000)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	T1	(Billes et al. 1993)
<i>Triticum aestivum</i>	H	0	GCGH	None	F2	(Bloom et al. 2002)
<i>Triticum aestivum</i>	H	0	Rhizotron	None/Water	F3/F4	(Chaudhuri et al. 1990)
<i>Triticum aestivum</i>	H	0	GCGH	None	F3	(Christ & Körner 1995)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Ducloux et al. 1987)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Derner et al. 2004)
<i>Triticum aestivum</i>	H	0	OTC	None	T3	(Dijkstra et al. 1999)
<i>Triticum aestivum</i>	H	0	OTC	None	T4	(Fangmeier et al. 1996)
<i>Triticum aestivum</i>	H	0	GCGH	None	F1	(Gifford 1979)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Gorissen 1996)
<i>Triticum aestivum</i>	H	0	OTC	None/O ₃	T3/T4	(Heagle et al. 2000)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Hocking & Meyer 1991)
<i>Triticum aestivum</i>	H	0	OTC	None	T2	(Hudak et al. 1999)
<i>Triticum aestivum</i>	H	0	GCGH	None/Water	T2	(Kang et al. 2002)
<i>Triticum aestivum</i>	H	0	FACE	None	F6	(Kimball et al. 1995)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	T2	(Li et al. 2003)

<i>Triticum aestivum</i>	H	0	GCGH	None	F1	(Masle et al. 1990)
<i>Triticum aestivum</i>	H	0	GCGH	None	F1	(McKee & Woodward 1994)
<i>Triticum aestivum</i>	H	0	GCGH	None/O ₃	F1	(McKee et al. 1997)
<i>Triticum aestivum</i>	H	0	GCGH	None	F4	(McMaster et al. 1999)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	F1/T1	(Mitchell et al. 1993)
<i>Triticum aestivum</i>	H	0	GCGH	None/O ₃	T3	(Mortensen 1990)
<i>Triticum aestivum</i>	H	0	GCGH	None	F2	(Musgrave & Strain 1988)
<i>Triticum aestivum</i>	H	0	GCGH	None/Salt	F1	(Nicolas et al. 1993)
<i>Triticum aestivum</i>	H	0	OTC	None/Fert	T1	(Pal et al. 2005)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Paterson et al. 1996)
<i>Triticum aestivum</i>	H	0	OTC	None	T2	(Saebo & Mortensen 1996)
<i>Triticum aestivum</i>	H	0	GCGH	None	F4	(Santrucek et al. 1994)
<i>Triticum aestivum</i>	H	0	GCGH	None	T1	(Sionit et al. 1980)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	T1	(Sionit et al. 1981a)
<i>Triticum aestivum</i>	H	0	GCGH	None/Water	T1	(Sionit et al. 1981b)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	F3	(Smart et al. 1998)
<i>Triticum aestivum</i>	H	0	GCGH	None/Water	T1	(Van Vuuren et al. 1997)
<i>Triticum aestivum</i>	H	0	FACE	None/Water	F13	(Wall et al. 2006)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	F1/F2	(Wolf 1996b)
<i>Triticum aestivum</i>	H	0	GCGH	None/Fert	F2/F4	(Wong & Osmond 1991)
<i>Triticum durum</i>	H	0	GCGH	None/Salt	F1	(Nicolas et al. 1993)
<i>Tropaeolum majus</i>	H	0	GCGH	None	T1	(Lake & Hughes 1999)
<i>Tsuga canadensis</i>	W	0	GCGH	None	F1/T1	(Bazzaz et al. 1990)
<i>Tsuga canadensis</i>	W	0	GCGH	None	T1	(Godbold et al. 1997)
<i>Vaccinium uliginosum</i>	W	0	GCGH	None/Fert	F19/F20	(Oechel et al. 1984)
<i>Veronica didyma</i>	H	0	GCGH	Fert	F1	(Tang et al. 2006)
<i>Vicia cracca</i>	H	1	GCGH	Fert	F1	(Tang et al. 2006)
<i>Vicia faba</i>	H	1	GCGH	None/Herbivory	F1/F3	(Hughes & Bazzaz 2001)
<i>Vicia faba</i>	H	1	OTC	None	F2	(Radoglou & Jarvis 1993)
<i>Vicia faba</i>	H	1	GCGH	None/UVB	T1	(Tosserams et al. 2001)
<i>Vicia faba</i>	H	1	OTC	None	T1	(Visser et al. 1997)
<i>Vicia faba</i>	H	1	GCGH	None/Fert	F1	(Wolf 1996a)
<i>Vigna unguiculata</i>	H	1	GCGH	None	F6	(Bhattacharya et al. 1985b)

<i>Vigna unguiculata</i>	H	1	GCGH	None	F1	(Overdieck et al. 1988)
<i>Virola surinamensis</i>	W	0	OTC	None	T1	(Winter & Lovelock 1999)
<i>Xanthium strumarium</i>	H	0	GCGH	None	F1	(Lewis et al. 2003)
<i>Zea mays</i>	H	0	GCGH	None	T1	(Hocking & Meyer 1991)
<i>Zea mays</i>	H	0	GCGH	None/Water	T2	(Kang et al. 2002)
<i>Zea mays</i>	H	0	GCGH	None/Water	T4	(King & Greer 1986)
<i>Zea mays</i>	H	0	GCGH	None	T1/T3	(Patterson & Flint 1980)
<i>Zea mays</i>	H	0	GCGH	None	F2	(Sionit et al. 1982)
<i>Zea mays</i>	H	0	GCGH	None	T1	(Ziska & Bunce 1999)
<i>Zea mays</i>	H	0	GCGH	None	T4	(Ziska & Bunce 1997a)

Appendix References

- Allard V, Robin C, Newton PCD, Lieffering M, Soussana JF (2006) Short and long-term effects of elevated CO₂ on *Lolium perenne* rhizodeposition and its consequence on soil organic matter turnover and plant N yield. *Soil Biology and Biochemistry* 38:1178-1187
- Allen LH, Jr, Vu JCV, Valle RR, Boote KJ, Jones PH (1988) Nonstructural carbohydrates and nitrogen of soybean grown under carbon dioxide enrichment. *Crop Science* 28:84-94
- Almeida JPF, Luscher A, Frehner M, Oberson A, Nosberger J (1999) Partitioning of P and the activity of root acid phosphatase in white clover (*Trifolium repens* L.) are modified by increased atmospheric CO₂ and P fertilisation. *Plant and Soil* 210:159-166
- Amthor JS, Mitchell RJ, Runion GB (1994) Energy content, construction cost and phytomass accumulation of *Glycine max* (L.) Merr. and *Sorghum bicolor* (L.) Moench grown in elevated CO₂ in the field. *New Phytologist* 128:443-450
- Anderson PD, Tomlinson PT (1998) Ontogeny affects response of northern red oak seedlings to elevated CO₂ and water stress. *New Phytologist* 140:477-491
- Andre M, Cotte F, Gerbaud A, Massimino D, Massimino J, Richaud C (1989) Effect of CO₂ and O₂ on development and fructification of wheat in closed systems. *Advances in Space Research* 9(8):17-28
- Aoki N, Ono K, Seneweera SP, Sakai H, Kobayashi K, Ishimaru K (2003) Effects of elevated CO₂ concentration on photosynthetic carbon metabolism in flag-leaf blades of rice before and after heading. *Plant Production Science* 6:52-58
- Aranda X, Agusti C, Joffre R, Fleck I (2006) Photosynthesis, growth and structural characteristics of holm oak resprouts originated from plants grown under elevated CO₂. *Physiologia Plantarum* 128:302-312
- Arnone JA, III, Gordon JC (1990) Effect of nodulation, nitrogen fixation and CO₂ enrichment on the physiology, growth and dry mass allocation of seedlings of *Alnus rubra* Bong. *New Phytologist* 116:55-66
- Arnone JA, III, Körner C (1993) Influences of elevated CO₂ on canopy development and red: far-red ratios in two-storied stands of *Ricinus communis*. *Oecologia* 94:510-515
- Arnone JA, III, Kestenholtz C (1997) Root competition and elevated CO₂: effects on seedling growth in *Linum usitatissimum* populations and *Linum-Silene cretica* mixtures. *Functional Ecology* 11:209-214
- Arnone JA, III, Körner C (1995) Soil and biomass carbon pools in model communities of tropical plants under elevated CO₂. *Oecologia* 104:61-71
- Atkin OK, Schortemeyer M, McFarlane N, Evans JR (1999) The response of fast- and slow-growing *Acacia* species to elevated atmospheric CO₂: an analysis of the underlying components of relative growth rate. *Oecologia* 120:544-554
- Atkinson CJ, Taylor JM, Wilkins D, Besford RT (1997) Effects of elevated CO₂ on chloroplast components, gas exchange and growth of oak and cherry. *Tree Physiology* 17:319-325
- Bacanamwo M, Harper JE (1997) Response of a hypernodulating soybean mutant to increased photosynthate supply. *Plant Science* 124:119-129

- Baker JM, Albercht SL, Pan D, Allen LH, Pickering NB, Boote KJ (1994) Carbon dioxide and temperature effects on rice (*Oryza sativa* L., cv. 'IR-72'). Soil and Crop Science Society of Florida Proceedings 53:90-97
- Baker JT, Allen Jr. LH, Boote KJ (1990) Growth and yield responses of rice to carbon dioxide concentration. Journal of Agricultural Science 115:313-320
- Barnard R, Barthes L, Le Roux X, Leadley PW (2004) Dynamics of nitrifying activities, denitrifying activities and nitrogen in grassland mesocosms as altered by elevated CO₂. New Phytologist 162:365-376
- Barnard R, Barthes L, Leadley PW (2006) Short-term uptake of ¹⁵N by a grass and soil micro-organisms after long-term exposure to elevated CO₂. Plant and Soil 280:91-99
- Barnard R, Leadley PW, Lensi R, Barthes L (2005) Plant, soil microbial and soil inorganic nitrogen responses to elevated CO₂: a study in microcosms of *Holcus lanatus*. Acta Oecologica 27:171-178
- Barnes JD, Ollerenshaw JH, Whitfield CP (1995) Effects of elevated CO₂ and/or O₃ on growth, development and physiology of wheat (*Triticum aestivum* L.). Global Change Biology 1:129-142
- Barrett DJ, Gifford RM (1999) Increased C-gain by an endemic Australian pasture grass at elevated atmospheric CO₂ concentration when supplied with non-labile inorganic phosphorus. Australian Journal of Plant Physiology 26:443-451
- BassiriRad H, Griffin KL, Reynolds JF, Strain BR (1997a) Changes in root NH₄⁺ and NO₃⁻ absorption rates of loblolly and ponderosa pine in response to CO₂ enrichment. Plant and Soil 190:1-9
- BassiriRad H, Griffin KL, Strain BR, Reynolds JF (1996a) Effects of CO₂ enrichment on growth and root ¹⁵NH₄⁺ uptake rate of loblolly pine and ponderosa pine seedlings. Tree Physiology 16:957-962
- BassiriRad H, Reynolds JF, Virginia RA, Brunelle MH (1997b) Growth and root NO₃⁻ and PO₄³⁻ uptake capacity of three desert species in response to atmospheric CO₂ enrichment. Australian Journal of Plant Physiology 24:353-358
- BassiriRad H, Tissue DT, Reynolds JF, Chapin FS, III (1996b) Response of *Eriophorum vaginatum* to CO₂ enrichment at different soil temperatures: effects on the growth, root respiration and PO₄³⁻ uptake kinetics. New Phytologist 133:423-430
- Bassow SL, McConnaughay KDM, Bazzaz FA (1994) The response of temperate tree seedlings grown in elevated CO₂ to extreme temperature events. Ecological Applications 4:593-603
- Bauer GA, Berntson GM (2001) Ammonium and nitrate acquisition by plants in response to elevated CO₂ concentration: the roles of root physiology and architecture. Tree Physiology 21:137-144
- Baxter R, Ashenden TW, Farrar JF (1997) Effect of elevated CO₂ and nutrient status on growth, dry matter partitioning and nutrient content of *Poa alpina* var. *vivipara* L. Journal of Experimental Botany 48:1477-1486
- Baxter R, Ashenden TW, Sparks TH, Farrar JF (1994) Effects of elevated carbon dioxide on three montane grass species. I. Growth and dry matter partitioning. Journal of Experimental Botany 45:305-315
- Bazin A, Goverde M, Erhardt A, Shykoff JA (2002) Influence of atmospheric carbon dioxide enrichment on induced response and growth compensation after herbivore damage in *Lotus corniculatus*. Ecological Entomology 27:271-278

- Bazot S, Ulf L, Blum H, Nguyen C, Robin C (2006) Effects of elevated CO₂ concentration on rhizodeposition from *Lolium perenne* grown on soil exposed to 9 years of CO₂ enrichment. *Soil Biology and Biochemistry* 38:729-736
- Bazzaz FA, Coleman JS, Morse SR (1990) Growth responses of seven major co-occurring tree species of the northeastern United States to elevated CO₂. *Canadian Journal of Forest Research* 20:1479-1484
- Bazzaz FA, Garbut K, Reekie EG, Williams WE (1989) Using growth analysis to interpret competition between a C₃ and a C₄ annual under ambient and elevated CO₂. *Oecologia* 79:223-235
- Bencze S, Veisz O, Janda T, Bedo Z (2000) Effects of elevated CO₂ level and N and P supplies on two winter wheat varieties in the early developmental stage. *Cereal Research Communications* 28:123-130
- Bernacchi CJ, Coleman JS, Bazzaz FA, McConnaughay KDM (2000) Biomass allocation in old-field annual species grown in elevated CO₂ environments: no evidence for optimal partitioning. *Global Change Biology* 6:855-863
- Bernston GM, Bazzaz FA (1997) Nitrogen cycling in microcosms of yellow birch exposed to elevated CO₂: simultaneous positive and negative below-ground feedbacks. *Global Change Biology* 3:247-258
- Bernston GM, Bazzaz FA (1998) Regenerating temperate forest mesocosms in elevated CO₂: belowground growth and nitrogen cycling. *Oecologia* 113:115-125
- Berntson GM, Rajakaruna N, Bazzaz FA (1998) Growth and nitrogen uptake in an experimental community of annuals exposed to elevated atmospheric CO₂. *Global Change Biology* 4:607-626
- Berntson GM, Wayne P, Bazzaz FA (1997) Below-ground architectural and mycorrhizal responses to elevated CO₂ in *Betula alleghaniensis* populations. *Functional Ecology* 11:684-695
- Berryman CA, Eamus D, Duff GA (1993) The influence of CO₂ enrichment on growth, nutrient content and biomass allocation of *Maranthus corymbosa*. *Australian Journal of Botany* 41:195-209
- Bhattacharya NC, Biswas PK, Bhattacharya S, Sionit N, Strain BR (1985a) Growth and yield response of sweet potato to atmospheric CO₂ enrichment. *Crop Science* 25:975-981
- Bhattacharya NC, Hileman DR, Ghosh PP, Musser RL, Bhattacharya S, Biswas PK (1990) Interaction of enriched CO₂ and water-stress on the physiology of and biomass production in sweet-potato grown in open-top chambers. *Plant, Cell and Environment* 13:933-940
- Bhattacharya S, Bhattacharya NC, Biswas PK, Strain BR (1985b) Response of cow pea (*Vigna unguiculata* L.) to CO₂ enrichment environment on growth, dry-matter production and yield components at different stages of vegetative and reproductive growth. *Journal of Agricultural Science* 105:527-534
- Billes G, Rouhier H, Bottner P (1993) Modifications of the carbon and nitrogen allocations in the plant (*Triticum aestivum* L.) soil system in response to increased atmospheric CO₂ concentration. *Plant and Soil* 157:215-225
- Blaschke L, Legrand M, Mai C, Polle A (2004) Lignification and structural biomass production in tobacco with suppressed caffeic/5-hydroxy ferulic acid-O-methyl transferase activity under ambient and elevated CO₂ concentrations. *Physiologia Plantarum* 121:75-83
- Bloom AJ, Smart DR, Nguyen DT, Searles PS (2002) Nitrogen assimilation and growth of wheat under elevated carbon dioxide. *Proceedings of the National Academy of Sciences of the United States of America* 99:1730-1735

- Booker FL, Fiscus EL (2005) The role of ozone flux and antioxidants in the suppression of ozone injury by elevated CO₂ in soybean. *Journal of Experimental Botany* 56:2139-2151
- Bosac C, Gardner SDL, Taylor G, Wilkins D (1995) Elevated CO₂ and hybrid poplar: a detailed investigation of root and shoot growth and physiology of *Populus euramericana*, 'Primo'. *Forest Ecology and Management* 74:103-116
- Broadmeadow MJ, Jackson SB (2000) Growth responses of *Quercus petraea*, *Fraxinus excelsior* and *Pinus sylvestris* to elevated carbon dioxide, ozone and water supply. *New Phytologist* 146:437-451
- Broadmeadow MSJ, Heath J, Randle TJ (1999) Environmental limitations to O₃ uptake-some key results from young trees growing at elevated CO₂ concentrations. *Water, Air, and Soil Pollution* 116:299-310
- Brown K, Higginbotham KO (1986) Effects of carbon dioxide enrichment and nitrogen supply on growth of boreal tree seedlings. *Tree Physiology* 2:223-232
- Bucher JB, Tarjan DP, Siegwolf RTW, Saurer M, Blum H, Hendrey GR (1998) Growth of a deciduous tree seedling community in response to elevated CO₂ and nutrient supply. *Chemosphere* 36:777-782
- Bunce JA (1990) Short- and long-term inhibition of respiratory carbon dioxide efflux by elevated carbon dioxide. *Annals of Botany* 65:637-642
- Cabrerizo PM, Gonzalez EM, Aparicio-Tejo PM, Arrese-Igor C (2001) Continuous CO₂ enrichment leads to increased nodule biomass, carbon availability to nodules and activity of carbon-metabolising enzymes but does not enhance specific nitrogen fixation in pea. *Physiologia Plantarum* 113:33-40
- Calfapietra C et al. (2003) Free-air CO₂ enrichment (FACE) enhances biomass production in a short-rotation poplar plantation. *Tree Physiology* 23:805-814
- Callaway RM, DeLucia EH, Thomas EM, Schlesinger WH (1994) Compensatory responses of CO₂ exchange and biomass allocation and their effects on the relative growth rate of ponderosa pine in different CO₂ and temperature regimes. *Oecologia* 98:159-166
- Campbell CD, Sage RF (2002) Interactions between atmospheric CO₂ concentration and phosphorus nutrition on the formation of proteoid roots in white lupin (*Lupinus albus* L.). *Plant, Cell and Environment* 25:1051-1059
- Cantin D, Tremblay MF, Lechowicz MJ, Potvin C (1996) Effect of CO₂ enrichment, elevated temperature, and nitrogen availability on the growth and gas exchange of different families of jack pine seedlings. *Canadian Journal of Forest Research* 27:510-520
- Cao W, Tibbitts TW, Wheeler RM (1994) Carbon dioxide interactions with irradiance and temperature in potatoes. *Advances in Space Research* 14:243-250
- Carlson RW, Bazzaz FA (1982) Photosynthetic and growth response to fumigation with SO₂ at elevated CO₂ for C₃ and C₄ plants. *Oecologia* 54:50-54
- Carswell FE, Grace J, Lucas ME, Jarvis PG (2000) Interaction of nutrient limitation and elevated CO₂ concentration on carbon assimilation of a tropical tree seedling (*Cedrela odorata*). *Tree Physiology* 20:977-986
- Carter DR, Peterson KM (1983) Effects of a CO₂-enriched atmosphere on the growth and competitive interaction of a C₃ and a C₄ grass. *Oecologia* 58:188-193

- Carter EB, Theodorou MK, Morris P (1997) Responses of *Lotus corniculatus* to environmental change I. Effects of elevated CO₂, temperature and drought on growth and plant development. *New Phytologist* 136:245-253
- Causin HF, Tremmel DC, Rufty TW, Reynolds JF (2004) Growth, nitrogen uptake, and metabolism in two semiarid shrubs grown at ambient and elevated atmospheric CO₂ concentration: effects of nitrogen supply and source. *American Journal of Botany* 91:565-572
- Cavender-Bares J, Potts M, Zacharias E, Bazzaz FA (2000) Consequences of CO₂ and light interactions for leaf phenology, growth, and senescence in *Quercus rubra*. *Global Change Biology* 6:877-887
- Cen YP, Layzell DB (2004) Does oxygen limit nitrogenase activity in soybean exposed to elevated CO₂? *Plant, Cell and Environment* 27:1229-1238
- Centritto M (2000) Source-sink relations affect growth but not the allocation pattern (*Betula pendula* Roth) seedlings under elevated CO₂. *Plant Biosystems* 134:31-37
- Centritto M, Lee HJL, Jarvis PG (1999) Long-term effects of elevated carbon dioxide concentration and provenance on four clones of Sitka spruce (*Picea sitchensis*) I. Plant growth, allocation and ontogeny. *Tree Physiology* 19:799-806
- Centritto M, Lucas ME, Jarvis PG (2002) Gas exchange, biomass, whole-plant water-use efficiency and water uptake of peach (*Prunus persica*) seedlings in response to elevated carbon dioxide concentration and water availability. *Tree Physiology* 22:699-706
- Chaudhuri UN, Burnett RB, Kirkham MB, Kanemasu ET (1986) Effect of carbon dioxide on sorghum yield, root growth, and water use. *Agricultural and Forest Meteorology* 37:109-122
- Chaudhuri UN, Kirkham MB, Kanemasu ET (1990) Root growth of winter wheat under elevated carbon dioxide and drought. *Crop Science* 30:853-857
- Chen CT, Setter TL (2003) Response of potato tuber cell division and growth to shade and elevated CO₂. *Annals of Botany* 91:373-381
- Chen K, Hu G, Keutgen N, Lenz F (1997) Effects of CO₂ concentration on strawberry. III. Dry matter production and water consumption. *Angewandte Botanik* 71:179-182
- Chen K, Hu GQ, Keutgen N, Janssens JJ, Lenz F (1999) Effects of NaCl salinity and CO₂ enrichment on pepino (*Solanum muricatum* Ait) I. Growth and yield. *Scientia Horticulturae* 81:25-41
- Chen K, Hu GQ, Lenz F (2002) Effects of doubled atmospheric CO₂ concentration on apple trees. II. Dry mass production. *Gartenbauwissenschaft* 67:28-33
- Chen K, Lenz F (1997) Responses of strawberry to doubled CO₂ concentration and phosphorus deficiency I. Distribution of dry matter, macronutrients, and carbohydrates. *Gartenbauwissenschaft* 62:30-37
- Cheng WG, Yagi K, Sakai H, Kobayashi K (2006) Effects of elevated atmospheric CO₂ concentrations on CH₄ and N₂O emission from rice soil: an experiment in controlled-environment chambers. *Biogeochemistry* 77:351-373
- Choi DS, Quoreshi AM, Maruyama Y, Jin HO, Koike T (2005) Effect of ectomycorrhizal infection on growth and photosynthetic characteristics of *Pinus densiflora* seedlings grown under elevated CO₂ concentrations *Photosynthetica* 43:223-229
- Christ RA, Körner C (1995) Responses of shoot and root gas exchange, leaf blade expansion and biomass production to pulses of elevated CO₂ in hydroponic wheat. *Journal of Experimental Botany* 46:1661-1667

- Chu CC, Coleman JSM, H.A. (1992) Controls of biomass partitioning between roots and shoots: atmospheric CO₂ enrichment and the acquisition and allocation of carbon and nitrogen in a wild radish. *Oecologia* 89:580-587
- Clifford SC, Stronach IM, Mohamed AD, Azam-Ali SN, Crout NMJ (1993) The effects of elevated atmospheric carbon dioxide and water stress on light interception, dry matter production and yield in stands of groundnut (*Arachis hypogaea* L.). *Journal of Experimental Botany* 44:1763-1770
- Coleman JS, Bazzaz FA (1992) Effects of CO₂ and temperature on growth and resource use of co-occurring C₃ and C₄ annuals. *Ecology* 73:1244-1259
- Conroy J, Barlow EWR (1986) Response of *Pinus radiata* seedlings to carbon dioxide enrichment at different levels of water and phosphorus: growth, morphology and anatomy. *Annals of Botany* 57:165-177
- Conroy JP, Milham PJ, Barlow EWR (1992) Effect of nitrogen and phosphorus availability on the growth response of *Eucalyptus grandis* to high CO₂. *Plant, Cell and Environment* 15:843-847
- Conroy JP, Milham PJ, Mazur M, Barlow EWR (1990) Growth, dry weight partitioning and wood properties of *Pinus radiata* D. Don after 2 years of CO₂ enrichment. *Plant, Cell and Environment* 13:329-337
- Cortes P, Espelta JM, Save R, Biel C (2004) Effects of a nursery CO₂ enriched atmosphere on the germination and seedling morphology of two Mediterranean oaks with contrasting leaf habit. *New Forests* 28:79-88
- Cotrufo MF, Gorissen A (1997) Elevated CO₂ enhances below-ground C allocation in three perennial grass species at different levels of N availability. *New Phytologist* 137:421-431
- Craigon J et al. (2002) Growth and marketable-yield responses of potato to increased CO₂ and ozone. *European Journal of Agronomy* 17:273-289
- Cruz C, Lips SH, Martins-Loucao MA (1997) Changes in the morphology of roots and leaves of Carob seedlings induced by nitrogen source and atmospheric carbon dioxide. *Annals of Botany* 80:817-823
- Cui M, Nobel PS (1994) Gas exchange and growth responses to elevated CO₂ and light levels in the CAM species *Opuntia ficus-indica*. *Plant, Cell and Environment* 17:935-944
- Cure JD, Israel DW, Rufty Jr. TW (1988) Nitrogen stress effects on growth and seed yield of nonnodulated soybean exposed to elevated carbon dioxide. *Crop Science* 28:671-677
- Cure JD, Rufty Jr. TW, Israel DW (1987) Assimilate utilization in the leaf canopy and whole-plant growth of soybean during acclimation to elevated CO₂. *Botanical Gazette* 148:67-72
- Daepf M, Nosberger J, Luscher A (2001) Nitrogen fertilization and developmental stage alter the response of *Lolium perenne* to elevated CO₂. *New Phytologist* 150:347-358
- Dakora FD, Drake BG (2000) Elevated CO₂ stimulates associative N₂ fixation in a C₃ plant of the Chesapeake Bay wetland. *Plant, Cell and Environment* 23:943-953
- Dale H, Press MC (1998) Elevated atmospheric CO₂ influences the interaction between the parasitic angiosperm *Orobanche minor* and its host *Trifolium repens*. *New Phytologist* 140:65-73

- Damesin C, Galera C, Rambal S, Joffre R (1996) Effects of elevated carbon dioxide on leaf gas exchange and growth of cork-oak (*Quercus suber* L.) seedlings. *Annals of Forest Science* 53:461-467
- De Costa WAJM, Weerakoon WMW, Herath HMLK, Abeywardena RMI (2003) Response of growth and yield of rice (*Oryza sativa*) to elevated carbon dioxide in the subhumid zone of Sri Lanka. *Journal of Agronomy and Crop Science* 189:83-95
- De Luis I, Irigoyen JJ, Sanchez-Diaz M (2002) Low vapour pressure deficit reduces the beneficial effect of elevated CO₂ on growth of N₂-fixing alfalfa plants. *Physiologia Plantarum* 116:497-502
- Deckmyn G, Caeyenberghs E, Cuelemans R (2001) Reduced UV-B in greenhouses decreases white clover response to enhance CO₂. *Environmental and Experimental Botany* 46:109-117
- Delucia EH, Sasek TW, Strain BR (1985) Photosynthetic inhibition after long-term exposure to elevated levels of atmospheric carbon dioxide. *Photosynthesis Research* 7:175-184
- Demmers-Derks H, Mitchell RAC, Mitchell VJ, Lawlor DW (1998) Response of sugar beet (*Beta vulgaris* L.) yield and biochemical composition to elevated CO₂ and temperature at two nitrogen applications. *Plant, Cell and Environment* 21:829-836
- Deng X, Woodward FI (1998) The growth and yield response of *Fragaria ananassa* to elevated CO₂ and N supply. *Annals of Botany* 81:67-71
- Derner JD et al. (2003) Above- and below-ground responses of C₃-C₄ species mixtures to elevated CO₂ and soil water availability. *Global Change Biology* 9:452-460
- Derner JD, Tischler CR, Polley HW, Johnson HB (2004) Intergenerational above- and belowground responses of spring wheat (*Triticum aestivum* L.) to elevated CO₂. *Basic and Applied Ecology* 5:145-152
- Derner JD, Tischler CR, Polley HW, Johnson HB (2005) Seedling growth of two honey mesquite varieties under CO₂ enrichment. *Rangeland Ecology and Management* 58:292-298
- Desjardins Y, Gosselin A, Lamarre M (1990) Growth of transplants and in vitro-cultured clones of asparagus in response to CO₂ enrichment and supplemental lighting. *Journal of the American Society of Horticultural Science* 115:364-368
- Dickson RE, Coleman MD, Riemenschneider DE, Isebrands JG, Hogan GD, Karnosky DF (1998) Growth of five hybrid poplar genotypes exposed to interacting elevated CO₂ and O₃. *Canadian Journal of Forest Research* 28:1706-1716
- Dijkstra P, Schapendonk AHMC, Groenwold K, Jansen M, Van De Geijn SC (1999) Seasonal changes in the response of winter wheat to elevated atmospheric CO₂ concentration grown in open-top chambers and field tracking enclosures. *Global Change Biology* 5:563-576
- Dippery JK, Tissue DT, Thomas RB, Strain BR (1995) Effects of low and elevated CO₂ on C₃ and C₄ annuals. *Oecologia* 101:13-20
- Donnelly A, Craigson J, Black CR, Colls JJ, Landon G (2001) Elevated CO₂ increases biomass and tuber yield in potato even at high ozone concentrations. *New Phytologist* 149:265-274
- Downton WJS, Grant WJR (1994) Photosynthetic and growth responses of variegated ornamental species to elevated CO₂. *Australian Journal of Plant Physiology* 21:273-279
- Downton WJS, Grant WJR, Chako EK (1990) Effect of elevated carbon dioxide on the photosynthesis and early growth of mangosteen (*Garcinia mangostana* L.). *Scientia Horticulturae* 44:215-225

- Downton WJS, Grant WJR, Loveys BR (1987) Carbon dioxide enrichment increases yield of Valencia Orange. *Australian Journal of Plant Physiology* 14:493-501
- Druta A (2001) Effect of long term exposure to high CO₂ concentrations on photosynthetic characteristics of *Prunus avium* L. *Plants. Photosynthetica* 39:289-297
- Ducloux HC, Andre M, Daguene A, Massimino J (1987) Wheat response to CO₂ enrichment - growth and CO₂ exchanges at 2 plant densities. *Journal of Experimental Botany* 38:1421-1431
- Duff GA, Berryman CA, Eamus D (1994) Growth, biomass allocation and foliar nutrient contents of two Eucalyptus species of the wet-dry tropics of Australia grown under CO₂ enrichment. *Functional Ecology* 8:502-508
- Dukes JS et al. (2005) Responses of grassland production to single and multiple global environmental changes. *PLoS Biology* 3:1829-1837
- Edwards EJ, McCaffery S, Evans JR (2005) Phosphorus status determines biomass response to elevated CO₂ in a legume; C₄ grass community. *Global Change Biology* 11:1968-1981
- Egli P, Körner C (1997) Growth responses to elevated CO₂ and soil quality in beech-spruce model ecosystems. *Acta Oecologica* 18:343-349
- El Kohen A, Mousseau M (1994) Interactive effects of elevated CO₂ and mineral nutrition on growth and CO₂ exchange of sweet chestnut (*Castanea sativa*). *Tree Physiology* 14:679-690
- El Kohen A, Rouhier H, Mousseau M (1992) Changes in dry weight and nitrogen partitioning induced by elevated CO₂ depend on soil nutrient availability in sweet chestnut (*Castanea sativa* Mill). *Annales des Sciences Forestieres* 49:83-90
- El Kohen A, Venet L, Mousseau M (1993) Growth and photosynthesis of two deciduous forest species at elevated carbon dioxide. *Functional Ecology* 7:480-486
- Entry JA, Runion GB, Prior SA, Mitchell RJ, Rogers HH (1998) Influence of CO₂ enrichment and nitrogen fertilization on tissue chemistry and carbon allocation in longleaf pine seedlings. *Plant and Soil* 200:3-11
- Fajer ED, Bowers MD, Bazzaz FA (1991) Performance and allocation patterns of the perennial herb, *Plantago lanceolata*, in response to simulated herbivory and elevated CO₂ environments. *Oecologia* 87:37-42
- Fangmeier A, de Temmerman L, Black C, Persson K, Vorne V (2002) Effects of elevated CO₂ and/or ozone on nutrient concentrations and nutrient uptake of potatoes. *European Journal of Agronomy* 17:353-368
- Fangmeier A, Gruters U, Herstein U, Sandhage-Hofmann A, Vermehren B, Jager HJ (1996) Effects of elevated CO₂, nitrogen supply and tropospheric ozone on spring wheat. 1. Growth and yield. *Environmental Pollution* 91:381-390
- Farnsworth EJ, Bazzaz FA (1995) Inter- and intra-generic differences in growth, reproduction, and fitness of nine herbaceous annual species grown in elevated CO₂ environments. *Oecologia* 104:454-466
- Ferguson JJ, Avigne WT, Allen LH, Koch KE (1986) Growth of CO₂-enriched sour orange seedlings treated with gibberellins/cytokinins. *Proceedings of Florida State Horticultural Society* 99:37-39
- Fernandez MD, Tezara W, Rengifo E, Herrera A (2002) Lack of downregulation of photosynthesis in a tropical root crop, cassava, grown under an elevated CO₂ concentration. *Functional Plant Biology* 29:805-814

- Ferris R, Taylor G (1993) Contrasting effects of elevated CO₂ on the root and shoot growth of four native herbs commonly found in chalk grassland. *New Phytologist* 125:855-866
- Ferris R, Taylor G (1995) Contrasting effects of elevated CO₂ and water deficit on two native herbs. *New Phytologist* 131:491-501
- Fierro A, Tremblay N, Gosselin A (1994) Supplemental carbon dioxide and light improved tomato and pepper seedling growth and yield. *HortScience* 29:152-154
- Fitter AH et al. (1997) Root production and turnover and carbon budgets of two contrasting grasslands under ambient and elevated atmospheric carbon dioxide concentrations. *New Phytologist* 137:247-255
- Flynn DFB, Sudderth EA, Bazzaz FA (2006) Effects of herbivory on biomass and leaf-level physiology of *Solanum dulcamara* under elevated temperature and CO₂. *Environmental and Experimental Botany* 56:10-18
- Fordham M et al. (1997) The impact of elevated CO₂ on growth and photosynthesis in *Agrostis canina* L. ssp. *monteluccii* adapted to contrasting atmospheric CO₂ concentrations. *Oecologia* 110:169-178
- Fransson PMA, Taylor AFS, Finlay RD (2005) Mycelial production, spread and root colonisation by the ectomycorrhizal fungi *Hebeloma crustuliniforme* and *Paxillus involutus* under elevated atmospheric CO₂. *Mycorrhiza* 15
- Fritschi FB, Boote KJ, Sollenberger LE, Allen LH, Jr., Sinclair TR (1999) Carbon dioxide and temperature effects on forage establishment: photosynthesis and biomass production. *Global Change Biology* 5:441-453
- Garcia-Sanchez F, Syvertsen JP (2006) Salinity tolerance of Cleopatra mandarin and Carrizo citrange citrus rootstock seedlings is affected by CO₂ enrichment during growth. *Journal of the American Society of Horticultural Science* 131:24-31
- Gaucher C, Dizengremel P, Mauffette Y, Chevrier N (2005) Response of *Acer saccharum* seedlings to elevated O₃ and CO₂ concentrations. *Phytoprotection* 86:1-17
- Gavazzi M, Seiler J, Aust W, Zedaker S (2000) The influence of elevated carbon dioxide and water availability on herbaceous weed development and growth of transplanted loblolly pine (*Pinus taeda*). *Environmental and Experimental Botany* 44:185-194
- Gavito ME, Bruhn D, Jakobsen I (2002) Phosphorus uptake by arbuscular mycorrhizal hyphae does not increase when the host plant grows under atmospheric CO₂ enrichment. *New Phytologist* 154:751-760
- Gavito ME, Curtis PS, Mikkelsen TN, Jakobsen I (2000) Atmospheric CO₂ and mycorrhiza effects on biomass allocation and nutrient uptake of nodulated pea (*Pisum sativum* L.) plants. *Journal of Experimental Botany* 51:1931-1938
- Gavito ME, Schweiger P, Jakobsen I (2003) P uptake by arbuscular mycorrhizal hyphae: effect of soil temperature and atmospheric CO₂ enrichment. *Global Change Biology* 9:106-116
- Gay AP, Hauck B (1994) Acclimation of *Lolium-temulentum* to enhanced carbon-dioxide concentration. *Journal of Experimental Botany* 45:1133-1141
- George V, Gerant D, Dizengremel P (1996) Photosynthesis, rubisco activity and mitochondrial malate oxidation in pedunculate oak (*Quercus robur* L) seedlings grown under present and elevated atmospheric CO₂ concentrations. *Annals of Forest Science* 53:469-474
- Ghannoum O, Conroy JP (1998) Nitrogen deficiency precludes a growth response to CO₂ enrichment in C-3 and C-4 Panicum grasses. *Australian Journal of Plant Physiology* 25:627-636

- Ghannoum O, von Caemmerer S, Barlow EWR, Conroy JP (1997) The effect of CO₂ enrichment and irradiance on the growth, morphology and gas exchange of a C₃ (*Panicum laxum*) and C₄ (*Panicum antidotale*) grass. *Australian Journal of Plant Physiology* 24:227-237
- Gibeaut DM, Cramer GR, Seemann JR (2001) Growth, cell walls, and UDP-Glc dehydrogenase activity of *Arabidopsis thaliana* grown in elevated carbon dioxide. *Journal of Plant Physiology* 158:569-576
- Gifford RM (1979) Growth and yield of CO₂-enriched wheat under water-limited conditions. *Australian Journal of Plant Physiology* 6:367-378
- Gislerod HR, Nelson PV (1989) The interaction of relative air humidity and carbon dioxide enrichment in the growth of *Chrysanthemum X morifolium* Ramat. *Scientia Horticulturae* 38:305-313
- Gleadow RM, Foley WJ, Woodrow IE (1998) Enhanced CO₂ alters the relationship between photosynthesis and defence in cyanogenic *Eucllyptus cladocalyx* F. Muell. *Plant, Cell and Environment* 21:12-22
- Gloser J, Bartak M (1994) Net photosynthesis, growth rate and biomass allocation in a rhizomatous grass *Calamagrostis epigejos* grown at elevated CO₂ concentration. *Photosynthetica* 30:143-150
- Gloser V, Frehner M, Luscher A, Nosberger J, Hartwig UA (2001) Does the response of perennial ryegrass to elevated CO₂ concentration depend on the form of the supplied nitrogen? *Biologia Plantarum* 45:51-58
- Godbold DL, Berntson GM, Bazzaz FA (1997) Growth and mycorrhizal colonization of three North American tree species under elevated atmospheric CO₂. *New Phytologist* 137:433-440
- Goodfellow J, Eamus D, Duff G (1997) Diurnal and seasonal changes in the impact of CO₂ enrichment on assimilation, stomatal conductance and growth in a long-term study of *Mangifera indica* in the wet-dry tropics of Australia. *Tree Physiology* 17:291-299
- Gorissen A (1996) Elevated CO₂ evokes quantitative and qualitative changes in carbon dynamics in a plant/soil system: mechanisms and implications. *Plant and Soil* 187:289-298
- Gorissen A, Kuyper TW (2000) Fungal species-specific responses of ectomycorrhizal Scots pine (*Pinus sylvestris*) to elevated CO₂. *New Phytologist* 146:163-168
- Goverde M, Arnone III JA, Erhardt A (2002) Species-specific reactions to elevated CO₂ and nutrient availability in four grass species. *Basic and Applied Ecology* 3:221-227
- Graham EA, Nobel PS (1996) Long-term effects of a doubled atmospheric CO₂ concentration on the CAM species *Agave deserti*. *Journal of Experimental Botany* 47:61-69
- Griffin KL, Winner WE, Strain BR (1995) Growth and dry matter partitioning in loblolly and ponderosa pine seedlings in response to carbon and nitrogen availability. *New Phytologist* 129:547-556
- Griffin KLB, M.A., Thomas RB, Strain BR (1997) Interactive effects of soil nitrogen and atmospheric carbon dioxide on root/rhizosphere carbon dioxide efflux from loblolly and ponderosa pine seedlings. *Plant and Soil* 190:11-18
- Grunzweig JM, Körner C (2001) Growth, water and nitrogen relations in grassland model ecosystems of the semi-arid Negev of Israel exposed to elevated CO₂. *Oecologia* 2001:251-262

- Grunzweig JM, Körner C (2003) Differential phosphorus and nitrogen effects drive species and community responses to elevated CO₂ in semi-arid grassland. *Functional Ecology* 17:766-777
- Guacher C, Costanzo N, Afif D, Mauffette Y, Chevrier N, Dizengremel P (2003) The impact of elevated ozone and carbon dioxide on young *Acer saccharum* seedlings. *Physiologia Plantarum* 117:392-402
- Guehl JM, Picon C, Assenac G, Gross P (1994) Interactive effects of elevated CO₂ and soil drought on growth and transpiration efficiency and its determinants in two European forest tree species. *Tree Physiology* 14:707-724
- Gunn S, Bailey SJ, Farrar JF (1999) Partitioning of dry mass and leaf area within plants of three species grown at elevated CO₂. *Functional Ecology* 13:3-11
- Gupta G, Li Y (1994) Soybean response to carbon dioxide and molybdenum. *Communications in Soil Science and Plant Analysis* 25:2571-2581
- Hakala K, Mela T (1996) The effects of prolonged exposure to elevated temperatures and elevated CO₂ levels on the growth, yield and dry matter partitioning of field-sown meadow fescue. *Agricultural and Food Science in Finland* 5:285-298
- Hall JM, Paterson E, Killham K (1998) The effect of elevated CO₂ concentration and soil pH on the relationship between plant growth and rhizosphere denitrification potential. *Global Change Biology* 4:209-216
- Hao X, Hale BA, Ormrod DP, Papadopoulos AP (2000) Effects of pre-exposure to ultraviolet-B radiation on responses of tomato (*Lycopersicon esculentum* cv. New Yorker) to ozone in ambient and elevated carbon dioxide. *Environmental Pollution* 110:217-224
- Harmens H, Stirling CM, Marshall C, Farrar JF (2000) Is partitioning of dry weight and leaf area within *Dactylis glomerata* affected by N and CO₂ enrichment. *Annals of Botany* 86:833-839
- Hartwig UA et al. (2002) Arbuscular mycorrhiza infection enhances the growth response of *Lolium perenne* to elevated atmospheric pCO₂. *Journal of Experimental Botany* 53:1207-1213
- Hartz-Rubin JS, DeLucia EH (2001) Canopy development of a model herbaceous community exposed to elevated atmospheric CO₂ and soil nutrients. *Physiologia Plantarum* 113:258-266
- Hattenschwiler S (2001) Tree seedling growth in natural deep shade: functional traits related to interspecific variation in response to elevated CO₂. *Oecologia* 129:31-42
- Hattenschwiler S, Körner C (1998) Biomass allocation and canopy development in spruce model ecosystems under elevated CO₂ and increased N deposition. *Oecologia* 113:104-114
- Hattenschwiler S, Körner C (2003) Does elevated CO₂ facilitate naturalization of the non-indigenous *Prunus laurocerasus* in Swiss temperate forests? *Functional Ecology* 17:778-785
- He JS, Bazzaz FA (2003) Density-dependent responses of reproductive allocation to elevated atmospheric CO₂ in *Phytolacca americana*. *New Phytologist* 157:229-239
- He JS, Wolfe-Bellin K, Bazzaz FA (2005) Leaf-level physiology, biomass, and reproduction of *Phytolacca americana* under conditions of elevated CO₂ and altered temperature regimes. *International Journal of Plant Sciences* 166:615-622

- Heagle AS, Booker FL, Miller J, Pursley WA, Stefanski LA (1999a) Influence of daily carbon dioxide exposure duration and root environment on soybean response to elevated carbon dioxide. *Journal of Environmental Quality* 28:666-675
- Heagle AS, Miller J, Burkey KO, Eason G, Pursley WA (2002) Growth and yield response of snap bean to mixtures of carbon dioxide and ozone. *Journal of Environmental Quality* 31:2008-2014
- Heagle AS, Miller JE, Booker FL, Pursley WA (1999b) Ozone stress, carbon dioxide enrichment, and nitrogen fertility interactions in cotton. *Crop Science* 39:731-741
- Heagle AS, Miller JE, Pursley WA (2000) Growth and yield responses of winter wheat to mixtures of ozone and carbon dioxide. *Crop Science* 40:1656-1664
- Heagle AS, Miller JE, Pursley WA (2003) Growth and yield responses of potato to mixtures of carbon dioxide and ozone. *Journal of Environmental Quality* 32:1603-1610
- Heagle AS, Miller JE, Sherrill DE, Rawlings JO (1993) Effects of ozone and carbon-dioxide mixtures on 2 clones of white clover. *New Phytologist* 123:751-762
- Hebeisen T, Luscher A, Nosberger J (1997a) Effects of elevated atmospheric CO₂ and nitrogen fertilization on yield of *Trifolium repens* and *Lolium perenne*. *Acta Oecologica* 18:277-284
- Hebeisen T et al. (1997b) Growth response of *Trifolium repens* L. and *Lolium perenne* L. as monocultures and bi-species mixture to free air CO₂ enrichment and management. *Global Change Biology* 3:149-160
- Heijmans MMPD et al. (2001) Effects of elevated carbon dioxide and increased nitrogen deposition on bog vegetation in the Netherlands. *Journal of Ecology* 89:268-279
- Hendrix DL, Mauney JR, Kimball BA, Lewin K, Nagy J, Hendrey GR (1994) Influence of elevated CO₂ and mild water stress on nonstructural carbohydrates in field-grown cotton tissues. *Agricultural and Forest Meteorology* 70:153-162
- Henry HAL, Chiariello NR, Vitousek PM, Mooney HA, Field CB (2006) Interactive effects of fire, elevated carbon dioxide, nitrogen deposition, and precipitation on a California annual grassland. *Ecosystems* 9:1066-1075
- Hibberd JM, Whitbread R, Farrar JF (1996) Effect of 700 $\mu\text{mol mol}^{-1}$ CO₂ and infection with powdery mildew on the growth and carbon partitioning of barley. *New Phytologist* 134:309-315
- Hibbs DE, Chan SS, Castellano M, Niu CH (1995) Response of red alder seedlings to CO₂ enrichment and water stress. *New Phytologist* 129:569-577
- Higgins PAT, Jackson RB, Des Rosiers JM, Field CB (2002) Root production and demography in a California annual grassland under elevated atmospheric carbon dioxide. *Global Change Biology* 8:841-850
- Hocking PJ, Meyer CP (1991) Effects of CO₂ enrichment and nitrogen stress on growth, and partitioning of dry-matter and nitrogen in wheat and maize. *Australian Journal of Plant Physiology* 18:339-356
- Hodge A, Paterson E, Grayston SJ, Campbell CD, Ord BG, Killham K (1998) Characterisation and microbial utilisation of exudate material from the rhizosphere of *Lolium perenne* grown under CO₂ enrichment. *Soil Biology and Biochemistry* 30:1033-1043

- Hoffmann WA, Bazzaz FA, Chatterton NJ, Harrison PA, Jackson RB (2000) Elevated CO₂ enhances resprouting of a tropical savanna tree. *Oecologia* 123:312-317
- Hudak C, Bender J, Weigel HJ, Miller J (1999) Interactive effects of elevated CO₂, O₃, and soil water deficit on spring wheat (*Triticum aestivum* L. cv. Nandu). *Agronomie* 19:677-687
- Hughes L, Bazzaz FA (2001) Effects of elevated CO₂ on five plant-aphid interactions. *Entomologia Experimentalis et Applicata* 99:87-96
- Hunt HW, Elliot ET, Detling JK, Morgan J, Chen DX (1996) Responses of a C₃ and a C₄ perennial grass to elevated CO₂ and temperature under different water regimes. *Global Change Biology* 2:35-47
- Hunt R, Hand DW, Hannah MA, Neal AM (1995) Temporal and nutritional influences on the response to elevated CO₂ in selected British grasses. *Annals of Botany* 75:207-216
- Hussain M, Kubiske ME, Connor KF (2001) Germination of CO₂-enriched *Pinus taeda* L. seeds and subsequent seedling growth responses to CO₂ enrichment. *Functional Ecology* 15:344-350
- Huxman TE, Hamerlynck EP, Jordan DN, Salsman KJ, Smith SD (1998) The effects of parental CO₂ environment on seed quality and subsequent seedling performance in *Bromus rubens*. *Oecologia* 114:202-208
- Huxman TE, Hamerlynck EP, Smith SD (1999) Reproductive allocation and seed production in *Bromus madritensis* ssp. *rubens* at elevated atmospheric CO₂. *Functional Ecology* 13:769-777
- Ignatova LK, Novichkova NS, Mudrik VA, Lyubimov VY, Ivanov BN, Romanova AK (2005) Growth, photosynthesis, and metabolism of sugar beet at an early stage of exposure to elevated CO₂. *Russian Journal of Plant Physiology* 52:184-190
- Ineichen K, Wiemken V, Wiemken A (1995) Shoots, roots and ectomycorrhiza formation of pine seedlings at elevated atmospheric carbon dioxide. *Plant, Cell and Environment* 18:703-707
- Israel DW, Rufty TW, Jr, Cure JD (1990) Nitrogen and phosphorus nutritional interactions in a CO₂ enriched environment. *Journal of Plant Nutrition* 13:1419-1433
- Jablonski LM (1997) Responses of vegetative and reproductive traits to elevated CO₂ and nitrogen in *Raphanus* varieties. *Canadian Journal of Botany* 75:533-545
- Jach ME, Laureysens I, Ceulemans R (2000) Above- and below-ground production of young Scots pine (*Pinus sylvestris* L.) trees after three years of growth in the field under elevated CO₂. *Annals of Botany* 85:789-798
- Jasoni R et al. (2004) Altered leaf and root emissions from onion (*Allium cepa* L.) grown under elevated CO₂ conditions. *Environmental and Experimental Botany* 51:273-280
- Jifon JL, Wolfe D (2002) Photosynthetic acclimation to elevated CO₂ in *Phaseolus vulgaris* L. is altered by growth response to nitrogen supply. *Global Change Biology* 8:1018-1027
- Johns CV, Hughes L (2002) Interactive effects of elevated CO₂ and temperature on the leaf-miner *Dialectica scariella* Zeller (Lepidoptera: Gracillariidae) in Paterson's Curse, *Echium plantagineum* (Boraginaceae). *Global Change Biology* 8:142-152
- Johnson RH, Lincoln DE (1991) Sagebrush carbon allocation patterns and grasshopper nutrition: the influence of CO₂ enrichment and soil mineral limitation. *Oecologia* 87:127-134

- Johnson SL, Lincoln DE (2000) Allocation responses to CO₂ enrichment and defoliation by a native annual plant *Heterotheca subaxillaris*. *Global Change Biology* 6:767-778
- Jones P, Allen Jr. LH, Jones JW, Boote KJ, Campbell WJ (1984) Soybean canopy growth, photosynthesis, and transpiration responses to whole-season carbon dioxide enrichment. *Agronomy Journal* 76:633-637
- Jongen M, Fay P, Jones MB (1996) Effects of elevated carbon dioxide and arbuscular mycorrhizal infection on *Trifolium repens*. *New Phytologist* 132:413-423
- Kang SZ, Zhang FC, Hu XT, Zhang JH (2002) Benefits of CO₂ enrichment on crop plants are modified by soil water status. *Plant and Soil* 238:69-77
- Kaushal P, Guehl JM, Aussenac G (1989) Differential growth response to atmospheric carbon dioxide enrichment in seedlings of *Cedrus atlantica* and *Pinus nigra* ssp. *Laricio* var. *Corsicana*. *Canadian Journal of Forest Research* 19:1351-1359
- Kellomaki S, Wang KY (2001) Growth and resource use of birch seedlings under elevated carbon dioxide and temperature. *Annals of Botany* 87:669-682
- Kendall AC, Turner JC, Thomas SM (1985) Effects of CO₂ enrichment at different irradiances on growth and yield of wheat. 1. effects of cultivar and of duration of CO₂ enrichment. *Journal of Experimental Botany* 36:252-260
- Kettunen R, Saarnio S, Martikainen P, Silvola J (2005) Elevated CO₂ concentration and nitrogen fertilisation effects on N₂O and CH₄ fluxes and biomass production of *Phleum pratense* on farmed peat soil. *Soil Biology and Biochemistry* 37:739-750
- Kim HY, Horie T, Nakagawa H, Wada K (1996) Effects of elevated CO₂ concentration and high temperature on growth and yield of rice I. The effect on development, dry matter production and some growth characteristics. *Japanese Journal of Crop Science* 65:634-643
- Kim HY, Lieffering M, Miura S, Kobayashi K, Okada M (2001) Growth and nitrogen uptake of CO₂-enriched rice under field conditions. *New Phytologist* 150:223-229
- Kimball BA, Mauney JR (1993) Response of cotton to varying CO₂, irrigation, and nitrogen: yield and growth. *Agronomy Journal* 85:706-712
- Kimball BA et al. (1995) Productivity and water use of wheat under free-air CO₂ enrichment. *Global Change Biology* 1:429-442
- King JS et al. (2005) Tropospheric O₃ compromises net primary production in young stands of trembling aspen, paper birch and sugar maple in response to elevated atmospheric CO₂. *New Phytologist* 168:623-636
- King KM, Greer DH (1986) Effects of carbon dioxide and enrichment and soil water on maize. *Agronomy Journal* 78:515-521
- Kitao M, Koike T, Tobita H, Maruyama Y (2005) Elevated CO₂ and limited nitrogen nutrition can restrict excitation energy dissipation in photosystem II of Japanese white birch (*Betula platyphylla* var. *japonica*) leaves. *Physiologia Plantarum* 125:64-73
- Kleemola J, Peltonen J, Peltonen-Sainio P (1994) Apical development and growth of barley under different CO₂ and nitrogen regimes. *Journal of Agronomy and Crop Science* 173:79-92
- Klironomos JN, Rillig MC, Allen MF (1996) Below-ground microbial and microfaunal responses to *Artemisia tridentata* grown under elevated atmospheric CO₂. *Functional Ecology* 10:527-534

- Klironomos JN, Ursic M, Rillig M, Allen MF (1998) Interspecific differences in the response of arbuscular mycorrhizal fungi to *Artemisia tridentata* grown under elevated atmospheric CO₂. *New Phytologist* 138:599-605
- Knight SL, Mitchell CA (1988) Effects of CO₂ and photosynthetic photon flux on yield, gas exchange and growth rate of *Lactuca sativa* L. 'Waldmann's Green'. *Journal of Experimental Botany* 39:317-328
- Kohen AEL, Rouhier H, Mousseau M (1992) Changes in dry weight and nitrogen partitioning induced by elevated CO₂ depend on soil nutrient availability in sweet chestnut (*Castanea sativa* Mill). *Annales des Sciences Forestieres* 49:83-90
- Körner C, Diemer M, Schappi B, Niklaus P, Arnone III JA (1997) The responses of alpine grassland to four seasons of CO₂ enrichment: a synthesis. *Acta Oecologica* 18:165-175
- Kruse J, Hetzger I, Mai C, Polle A, Rennenberg H (2003) Elevated pCO₂ affects N-metabolism of young poplar plants (*Populus tremula* x *P. alba*) differently at deficient and sufficient N-supply. *New Phytologist* 157:65-81
- Kytoviita MM, Pelloux J, Fontaine V, Botton B, Dizengremel P (1999) Elevated CO₂ does not ameliorate effects of ozone on carbon allocation in *Pinus halepensis* and *Betula pendula* in symbiosis with *Paxillus involutus*. *Physiologia Plantarum* 106:370-377
- Kytoviita MM, Thiec DL, Dizengremel P (2001) Elevated CO₂ and ozone reduce nitrogen acquisition by *Pinus halepensis* from its mycorrhizal symbiont. *Physiologia Plantarum* 111:305-312
- Laing WA, Greer DH, Campbell BD (2002) Strong responses of growth and photosynthesis of five C-3 pasture species to elevated CO₂ at low temperatures. *Functional Plant Biology* 29:1089-1096
- Lake JC, Hughes L (1999) Nectar production and floral characteristics of *Tropaeolum majus* L. grown in ambient and elevated carbon dioxide. *Annals of Botany* 84:535-541
- Larigauderie A, Hilbert DW, Oechel WC (1988) Effect of CO₂ enrichment and nitrogen availability on resource acquisition and resource allocation in grass, *Bromus mollis*. *Oecologia* 77:544-549
- Larigauderie A, Reynolds JF, Strain BR (1994) Root response to CO₂ enrichment and nitrogen supply in loblolly *pine*. *Plant and Soil* 165:21-32
- Lawson T, Craigan J, Black CR, Colls JJ, Tulloch AM, Landon G (2001) Effects of elevated carbon dioxide and ozone on the growth and yield of potatoes (*Solanum tuberosum*) grown in open-top chambers. *Environmental Pollution* 111:479-491
- Leadley PW, Niklaus PA, Stocker R, Körner C (1999) A field study of the effects of elevated CO₂ on plant biomass and community structure in a calcareous grassland. *Oecologia* 118:39-49
- Leadley PW, Stocklin J (1996) Effects of elevated CO₂ on model calcareous grasslands: community, species, and genotype level responses. *Global Change Biology* 2:389-397
- LeCain DR, Morgan JA (1998) Growth, gas exchange, leaf nitrogen and carbohydrate concentrations in NAD-ME and NADP-ME C₄ grasses grown in elevated CO₂. *Physiologia Plantarum* 102:297-306
- Lenssen GM, Lamers J, Stroetenga M, Rozema J (1993) Interactive effects of atmospheric CO₂ enrichment, salinity and flooding on growth of C₃ (*Elymus athericus*) and C₄ (*Spartina anglica*) salt marsh species. *Vegetatio* 104/105:379-388

- Lenssen GM, van Duin WE, Jak P, Rozema J (1995) The response of *Aster tripolium* and *Puccinellia maritima* to atmospheric carbon dioxide enrichment and their interactions with flooding and salinity. *Aquatic Botany* 50:181-192
- Lewis CE, Peratoner G, Cairns AJ, Causton DR, Foyer CH (1999) Acclimation of the summer annual species, *Lolium temulentum*, to elevated CO₂. *Planta* 210:104-114
- Lewis JD, Strain BR (1996) The role of mycorrhizas in the response of *Pinus taeda* seedlings to elevated CO₂. *New Phytologist* 133:431-443
- Lewis JD, Thomas RB, Strain BR (1994) Effect of elevated CO₂ on mycorrhizal of loblolly pine (*Pinus taeda* L.) seedlings. *Plant and Soil* 165:81-88
- Lewis JD, Wang XZ, Griffin KL, Tissue DT (2003) Age at flowering differentially affects vegetative and reproductive responses of a determinate annual plant to elevated carbon dioxide. *Oecologia* 135:194-201
- Li F, Kang S, Zhang J (2003) CO₂ enrichment on biomass accumulation and nitrogen nutrition of spring wheat under different soil nitrogen and water status. *Journal of Plant Nutrition* 26:769-788
- Li YC, Gupta G (1993) Photosynthetic changes in soybean with and without nitrogen and increased carbon-dioxide. *Plant Science* 89:1-4
- Li Z, Yagi K, Sakai H, Kobayashi K (2004) Influence of elevated CO₂ and nitrogen nutrition on rice plant growth, soil microbial biomass, dissolved organic carbon and dissolved CH₄. *Plant and Soil* 258:81-90
- Lilley JM, Bolger TB, Gifford RM (2001) Productivity of *Trifolium subterraneum* and *Phalaris aquatica* under warm high CO₂ conditions. *New Phytologist* 150:371-383
- Lin WH, Wang DL (1998) Effects of elevated CO₂ on growth and carbon partitioning in rice. *Chinese Science Bulletin* 43:1982-1986
- Lippert M, Haberle KH, Steiner K, Payer HD, Rehfuss KE (1996) Interactive effects of elevated CO₂ and O₃ on photosynthesis and biomass production of clonal 5-year-old Norway spruce (*Picea abies* L. Karst.) under different nitrogen nutrition and irrigation treatments. *Trees-Structure and Function* 10:382-392
- Liu WP, Kozovits AR, Grams TEE, Blaschke H, Rennenberg H, Matyssek R (2004) Competition modifies effects of enhanced ozone/carbon dioxide concentrations on carbohydrate and biomass accumulation in juvenile Norway spruce and European beech. *Tree Physiology* 24:1045-1055
- Loats KV, Rebbeck J (1999) Interactive effects of ozone and elevated carbon dioxide on the growth and physiology of black cherry, green ash, and yellow-poplar seedlings. *Environmental Pollution* 106:237-248
- Loewe A, Einig W, Shi L, Dizengremel P, Hampp R (2000) Mycorrhiza formation and elevated CO₂ both increase the capacity for sucrose synthesis in source leaves of spruce and aspen. *New Phytologist* 145:565-574
- Lovelock CE, Kyllö D, Winter K (1996) Growth responses to vesicular-arbuscular mycorrhizae and elevated CO₂ in seedlings of a tropical tree, *Beilschmiedia pendula*. *Functional Ecology* 10:662-667
- Lovelock CE, Posada J, Winter K (1999) Effects of elevated CO₂ and defoliation on compensatory growth and photosynthesis of seedlings in a tropical tree, *Copaifera aromatica*. *Biotropica* 31:279-287
- Lovelock CE, Winter K, Mersits R, Popp M (1998) Responses of communities of tropical tree species to elevated CO₂ in a forest clearing. *Oecologia* 116:207-218

- Lucash MS, Farnsworth B, Winner WE (2005) Response of sagebrush steppe species to elevated CO₂ and soil temperature. *Western North American Naturalist* 65:80-86
- MacDowall FDH (1983) Effects of light-intensity and CO₂ concentration on the kinetics of 1st-month growth and nitrogen-fixation of alfalfa. *Canadian Journal of Botany* 61:731-740
- Maestre FT, Bradford MA, Reynolds JF (2005) Soil nutrient heterogeneity interacts with elevated CO₂ and nutrient availability to determine species and assemblage responses in a model grassland community. *New Phytologist* 168:637-650
- Maestre FT, Reynolds JF (2006) Spatial heterogeneity in soil nutrient supply modulates nutrient and biomass responses to multiple global change drivers in model grassland communities. *Global Change Biology* 12:2431-2441
- Maherali H, DeLucia EH (2000) Interactive effects of elevated CO₂ and temperature on water transport in Ponderosa pine. *American Journal of Botany* 87:243-249
- Maillard P, Guehl JM, Muller JF, Gross P (2001) Interactive effects of elevated CO₂ concentration and nitrogen supply on partitioning of newly fixed ¹³C and ¹⁵N between shoot and roots of pedunculate oak seedlings (*Quercus robur*). *Tree Physiology* 21:163-172
- Makino A, Harada M, Sato T, Nakano H, Mae T (1997) Growth and N allocation in rice plants under CO₂ enrichment. *Plant Physiology* 115:199-203
- Malmstrom CM, Field CB (1997) Virus-induced differences in the response of oat plants to elevated carbon dioxide. *Plant, Cell and Environment* 20:178-188
- Markkola AM, Ohtonen A, Ahonen-Jonnarh U, Ohtonen R (1996) Scots pine responses to CO₂ enrichment. 1. Ectomycorrhizal fungi and soil fauna. *Environmental Pollution* 94:309-316
- Marks S, Clay K (1990) Effects of O₂ enrichment, nutrient addition, and fungal endophyte-infection on the growth of two grasses. *Oecologia* 84:207-214
- Maroco JP, Breia E, Faria T, Pereira JS, Chaves MM (2002) Effects of long-term exposure to elevated CO₂ and N fertilization on the development of photosynthetic capacity and biomass accumulation in *Quercus suber* L. *Plant, Cell and Environment* 25:105-113
- Martin-Olmedo P, Rees RM, Grace J (2002) The influence of plants grown under elevated CO₂ and N fertilization on soil nitrogen dynamics. *Global Change Biology* 8:643-657
- Masle J, Farquhar GD, Gifford RM (1990) Growth and carbon economy of wheat seedlings as affected by soil resistance to penetration and ambient partial pressure of CO₂. *Australian Journal of Plant Physiology* 17:465-487
- Masle J, Hudson GS, Badger MR (1993) Effects of ambient CO₂ concentration on growth and nitrogen use in tobacco (*Nicotiana tabacum*) plants transformed with an antisense gene to the small-subunit of ribulose-1,5-biphosphate carboxylase oxygenase. *Plant Physiology* 103:1075-1088
- Matt P, Geiger M, Walch-Liu P, Engels C, Krapp A, Stitt M (2001) Elevated carbon dioxide increases nitrate uptake and nitrate reductase activity when tobacco is growing on nitrate, but increases ammonium uptake and inhibits nitrate reductase activity when tobacco is growing on ammonium nitrate. *Plant, Cell and Environment* 24:1119-1137

- McKee IF, Bullimore JF, Long SP (1997) Will elevated CO₂ concentrations protect the yield of wheat from O₃ damage? *Plant, Cell and Environment* 20:77-84
- McKee IF, Woodward FI (1994) CO₂ enrichment responses of wheat-interactions with temperature, nitrate and phosphate. *New Phytologist* 127:447-453
- McMaster GS, LeCain DR, Morgan JA, Aiguo L, Hendrix DL (1999) Elevated CO₂ increases wheat CER, leaf and tiller development, and shoot and root growth. *Journal of Agronomy and Crop Science* 183:119-128
- Megonigal JP, Schlesinger WH (1997) Enhanced CH₄ emissions from a wetland soil exposed to elevated CO₂. *Biogeochemistry* 37:77-88
- Megonigal JP, Vann CD, Wolf AA (2005) Flooding constraints on tree (*Taxodium distichum*) and herb growth responses to elevated CO₂. *Wetlands* 25:430-438
- Miao SL (1995) Acorn mass and seedling growth in *Quercus rubra* in response to elevated CO₂. *Journal of Vegetation Science* 6:697-700
- Miao SL, Wayne PM, Bazzaz FA (1992) Elevated CO₂ differentially alters the responses of cooccurring birch and maple seedlings to a moisture gradient. *Oecologia* 90:300-304
- Miller JE, Heagle AS, Pursley WA (1998) Influence of ozone stress on soybean response to carbon dioxide enrichment: II. Biomass and development. *Crop Science* 38:122-128
- Mishra RS, Abdin MZ, Uprety DC (1999) Interactive effects of elevated CO₂ and moisture stress on the photosynthesis, water relation and growth of *Brassica* species. *Journal of Agronomy and Crop Science* 182:223-229
- Mitchell RAC, Mitchell VJ, Driscoll SP, Franklin J, Lawlor DW (1993) Effects of increased CO₂ concentration and temperature on growth and yield of winter wheat at two levels of nitrogen application. *Plant, Cell and Environment* 16:521-529
- Mo G et al. (1992) Root and shoot weight in a tallgrass prairie under elevated carbon dioxide. *Environmental and Experimental Botany* 32:193-201
- Morgan JA, Knight WG, Dudley LM, Hunt HW (1994) Enhanced root system C-sink activity, water relations and aspects of nutrient acquisition in mycotrophic *Bouteloua gracilis* subjected to CO₂ enrichment. *Plant and Soil* 165:139-146
- Mortensen LM (1990) Effects of ozone on growth of *Triticum aestivum* L. at different light, air humidity and CO₂ levels. *Norwegian Journal of Agricultural Sciences* 4:343-348
- Mortensen LM (1994a) Effects of carbon dioxide concentration on assimilate partitioning, photosynthesis and transpiration of *Betula pendula* Roth. and *Picea abies* karst. seedlings at two temperatures. *Acta Agriculturae Scandinavica Section B-Soil and Plant Sciences* 44:164-169
- Mortensen LM (1994b) Effects of elevated CO₂ concentrations on the growth and yield of eight vegetable species in a cool climate. *Scientia Horticulturae* 58:177-185
- Mortensen LM (1994c) The influence of carbon dioxide or ozone concentration on growth and assimilate partitioning in seedlings of nine conifers. *Acta Agriculturae Scandinavica Section B-Soil and Plant Sciences* 44:157-163
- Mortensen LM (1995) Effect of carbon dioxide concentration on biomass production and partitioning in (*Betula pubescens* Ehrh.) seedlings at different ozone and temperature regimes. *Environmental Pollution* 87:337-343

- Mortensen LM (1998) Effects of elevated CO₂ concentration on growth of *Betula pubescens* Ehrh. in different climatic conditions. Scandinavian Journal of Forest Research 13:197-203
- Mousseau M (1993) Effects of elevated CO₂ on growth, photosynthesis and respiration of sweet chestnut (*Castanea sativa* Mill.). Vegetatio 104/105:413-419
- Mousseau M, Enoch HZ (1989) Effect of doubling atmospheric CO₂ concentration on growth, dry matter distribution and CO₂ exchange of 2-yr old sweet chestnut trees (*Castanea sativa* Mill.). Annales des Sciences Forestieres 46 suppl:506-508
- Moya TB, Ziska LH, Namuco OS, Olszyk D (1998) Growth dynamics and genotypic variation in tropical, field-grown paddy rice (*Oryza sativa* L.) in response to increasing carbon dioxide and temperature. Global Change Biology 4:645-656
- Murray MB, Leith ID, Jarvis PG (1996) The effect of long term CO₂ enrichment on the growth, biomass partitioning and mineral nutrition of sitka spruce (*Picea sitchensis* (Bong.) Carr.). Trees-Structure and Function 10:393-402
- Murray MB, Smith RI, Friend A, Jarvis PG (2000) Effect of elevated CO₂ and varying nutrient application rates on physiology and biomass accumulation of Sitka spruce (*Picea sitchensis*). Tree Physiology 20:421-434
- Musgrave ME, Strain BR (1988) Response of 2 wheat cultivars to CO₂ enrichment under subambient oxygen conditions. Plant Physiology 87:346-350
- Musgrave ME, Strain BR, Siedow JN (1986) Response of two pea hybrids to CO₂ enrichment: a test of the energy overflow hypothesis for alternative respiration. Proceedings of the National Academy of Sciences of the United States of America 83:8157-8161
- Nakamoto H et al. (2004) Effects of carbon dioxide enrichment during different growth periods on flowering, pod set and seed yield in soybean. Plant Production Science 7:11-15
- Navas ML, Guillerm JL, Fabreguettes J, Roy J (1995) The influence of elevated CO₂ on community structure, biomass and carbon balance of Mediterranean old-field microcosms. Global Change Biology 1:325-335
- Newbery RM, Wolfenden J (1996) Effects of elevated CO₂ and nutrient supply on the seasonal growth and morphology of *Agrostis capillaris*. New Phytologist 132:403-411
- Newton PCD, Clark H, Bell CC, Glasgow EM, Campbell BD (1994) Effects of elevated CO₂ and simulated seasonal changes in temperature on the species composition and growth rates of pasture turves. Annals of Botany 73:53-59
- Nguyen NT, Mohapatra PK, Fujita K (2006) Elevated CO₂ alleviates the effects of low P on the growth of N₂-fixing *Acacia auriculiformis* and *Acacia mangium*. Plant Soil 285:369-379
- Nicolas ME, Munns R, Samarakoon AB, Gifford RM (1993) Elevated CO₂ improved the growth of wheat under salinity. Australian Journal of Plant Physiology 20:349-360
- Nijs I, Impens I (1997) An analysis of the balance between root and shoot activity in *Lolium perenne* cv. Melvina. Effects of CO₂ concentration and air temperature. New Phytologist 135:81-91
- Niklaus PA, Wohlfender M, Siegwolf R, Körner C (2001) Effects of six years atmospheric enrichment on plant, soil, and soil microbial C of a calcareous grassland. Plant and Soil 233:189-202

- Nobel PS, Cui MY, Miller PM, Luo YQ (1994) Influences of soil volume and an elevated CO₂ level on growth and CO₂ exchange for the crassulacean acid metabolism plant *Opuntia ficus-indica*. *Physiologia Plantarum* 90:173-180
- Nobel PS, de Cortazar VG (1991) Growth and predicted productivity of *Opuntia ficus-indica* for current and elevated carbon dioxide. *Agronomy Journal* 83:224-230
- Nobel PS, Hartsock TL (1986) Short-term and long-term responses of crassulacean acid metabolism plants to elevated CO₂. *Plant Physiology* 82:604-606
- Noble R, Jensen KF, Ruff BS, Loats K (1992) Response of *Acer saccharum* seedlings to elevated carbon dioxide and ozone. *Ohio Journal of Science* 92:60-62
- Norby NJ (1987) Nodulation and nitrogenase activity in nitrogen-fixing woody plants stimulated by CO₂ enrichment of the atmosphere. *Physiologia Plantarum* 71:77-82
- Norby RJ, Gunderson CA, Wullschleger SD, O'Neill EG, McCracken MK (1992) Productivity and compensatory responses of yellow-poplar trees in elevated CO₂. *Nature* 357:322-324
- Norby RJ, O'Neil EG (1989) Growth dynamics and water use of seedlings of *Quercus alba* L. in CO₂-enriched atmospheres. *New Phytologist* 111:491-500
- Norby RJ, O'Neil EG (1991) Leaf area compensation and nutrient interactions in CO₂-enriched seedlings of yellow-poplar (*Liriodendron tulipifera* L.). *New Phytologist* 117:515-528
- Norby RJ, O'Neill EG, Hood WG, Luxmoore RJ (1987) Carbon allocation, root exudation and mycorrhizal colonization of *Pinus echinata* seedlings grown under CO₂ enrichment. *Tree Physiology* 3:203-210
- Norby RJ, O'Neill EG, Luxmoore RJ (1986) Effects of atmospheric CO₂ enrichment on the growth and mineral nutrition of *Quercus alba* seedlings in nutrient-poor soil. *Plant Physiology* 82:83-89
- Norby RJ, Wullschleger SD, Gunderson c, Nietch CT (1995) Increased growth efficiency of *Quercus alba* trees in a CO₂-enriched atmosphere. *New Phytologist* 131:91-97
- O'Neill EG, Luxmoore RJ, Norby RJ (1987a) Elevated atmospheric CO₂ effects on seedling growth, nutrient uptake, and rhizosphere bacterial populations of *Liriodendron tulipifera* L. *Plant and Soil* 104:3-11
- O'Neill EG, Luxmoore RJ, Norby RJ (1987b) Increases in mycorrhizal colonization and seedling growth in *Pinus echinata* and *Quercus alba* in an enriched CO₂ atmosphere. *Canadian Journal of Forest Research* 17:878-883
- Oberbauer SF, Strain B, Fetcher N (1985) Effect of CO₂-enrichment on seedling physiology and growth of two tropical tree species. *Physiologia Plantarum* 65:352-356
- Obrist D, Arnone III JA (2003) Increasing CO₂ accelerates root growth and enhances water acquisition during early stages of development in *Larrea tridentata*. *New Phytologist* 159:175-184
- Oechel WC et al. (1984) Response of vegetation to carbon dioxide. U.S. Department of Energy Carbon Dioxide Research Division, Office of Energy Research, Washington

- Olesniewicz KS, Thomas RB (1999) Effects of mycorrhizal colonization on biomass production and nitrogen fixation of black locust (*Robinia pseudoacacia*) seedlings grown under elevated atmospheric carbon dioxide. *New Phytologist* 142:133-140
- Olszyk DM et al. (2003) Whole-seedling biomass allocation, leaf area, and tissue chemistry for Douglas-fir exposed to elevated CO₂ and temperature for 4 years. *Canadian Journal of Forest Research* 33:269-278
- Olszyk DM, Wise C (1997) Interactive effects of elevated CO₂ and O₃ on rice and flacca tomato. *Agriculture, Ecosystems and Environment* 66:1-10
- Overdieck D (1993) Effects of atmospheric CO₂ enrichment of CO₂ exchange rates of beech stands in small model ecosystems. *Water, Air, and Soil Pollution* 70:259-277
- Overdieck D, Reid C, Strain BR (1988) The effects of preindustrial and future CO₂ concentrations on growth, dry matter production and the C/N relationship in plants at low nutrient supply: *Vigna unguiculata* (cowpea), *Abelmoschus esculentus* (okra), and *Raphanus sativus* (radish). *Angewandte Botanik* 62:119-134
- Overdieck D, Reining F (1986) Effect of atmospheric CO₂ enrichment on perennial ryegrass (*Lolium perenne* L.) and white clover (*Trifolium repens* L.) competing in managed model-ecosystems. *Acta Oecologica* 7:357-366
- Owensby CE, Coyne PI, Ham JM, Auen LM, Knapp AK (1993) Biomass production in a tallgrass prairie ecosystem exposed to ambient and elevated CO₂. *Ecological Applications* 3:644-653
- Owensby CE, Ham JM, Knapp AK, Auen LM (1999) Biomass production and species composition change in a tallgrass prairie ecosystem after long-term exposure to elevated atmospheric CO₂. *Global Change Biology* 5:497-506
- Paez A, Hellmers H, Strain BR (1983) CO₂ enrichment, drought stress and growth of Alaska pea-plants (*Pisum sativum*). *Physiologia Plantarum* 58:161-165
- Paez A, Hellmers H, Strain BR (1984) Carbon dioxide enrichment and water stress interaction on growth of two tomato cultivars. *Journal of Agricultural Science* 102:687-693
- Pal M et al. (2005) Effects of elevated CO₂ and nitrogen on wheat growth and photosynthesis. *Biologia Plantarum* 49:467-470
- Pardos M, Puertolas J, Aranda I, Pardos JA (2006) Can CO₂ enrichment modify the effect of water and high light stress on biomass allocation and relative growth rate of cork oak seedlings? *Trees* 20:713-724
- Parsons WFJ, Kopper BJ, Lindroth RL (2003) Altered growth and fine root chemistry of *Betula papyrifera* and *Acer saccharum* under elevated CO₂. *Canadian Journal of Forest Research* 33:842-846
- Paterson E, Hodge A, Thornton B, Millard P, Killham K (1999) Carbon partitioning and rhizosphere C-flow in *Lolium perenne* as affected by CO₂ concentration, irradiance and below-ground conditions. *Global Change Biology* 5:669-678
- Paterson E, Rattray EAS, Killham K (1996) Effect of elevated atmospheric CO₂ concentration on C-partitioning and rhizosphere C-flow for three plant species. *Soil Biology and Biochemistry* 28:195-201
- Patterson DT (1986) Responses of Soybean (*Glycine max*) and three C₄ grass weeds to CO₂ enrichment during drought. *Weed Science* 34:203-210

- Patterson DT, Flint EP (1980) Potential effects of global atmospheric CO₂ enrichment on the growth and competitiveness of C₃ and C₄ weed and crop plants. *Weed Science* 28:71-75
- Patterson DT, Flint EP (1982) Interacting effects of CO₂ and nutrient concentration. *Weed Science* 30:389-394
- Patterson DT, Highsmith MT, Flint EP (1988) Effects of temperature and CO₂ concentration on the growth of cotton (*Gossypium hirsutum*), spurred anoda (*Anoda cristata*), and velvetleaf (*Abutilon theophrasti*). *Weed Science* 36:751-757
- Pearson M, Brooks GL (1995) The influence of elevated CO₂ on growth and age-related-changes in leaf gas-exchange. *Journal of Experimental Botany* 46:1651-1659
- Pearson M, Brooks GL (1996) The effects of elevated CO₂ and grazing by *Gastrophysa viridula* on the physiology and regrowth of *Rumex obtusifolius*. *New Phytologist* 133:605-616
- Pendall E, Mosier AR, Morgan JA (2004) Rhizodeposition stimulated by elevated CO₂ in a semiarid grassland. *New Phytologist* 162:447-458
- Penuelas J, Biel C, Estiarte M (1995) Growth, biomass allocation, and phenology responses of pepper to elevated CO₂ concentrations and different water and nitrogen supply. *Photosynthetica* 31:91-99
- Pettersson R, McDonald AJS (1992) Effects of elevated carbon dioxide concentration on photosynthesis and growth of small birch plants (*Betula pendula* Roth.) at optimal nutrition. *Plant, Cell and Environment* 15:911-919
- Picon C, Ferhi A, Guehl JM (1997) Concentration and delta ¹³C of leaf carbohydrates in relation to gas exchange in *Quercus robur* under elevated CO₂ and drought. *Journal of Experimental Botany* 48:1547-1556
- Picon C, Guehl JM, Aussenac G (1996) Growth dynamics, transpiration and water-use efficiency in *Quercus robur* plants submitted to elevated CO₂ and drought. *Annals of Forest Science* 53:431-446
- Polley HW, Johnson HB, Mayeux HS (1997) Leaf physiology, production, water use, and nitrogen dynamics of the grassland invader *Acacia smallii* at elevated CO₂ concentration. *Tree Physiology* 17:89-96
- Polley HW, Johnson HB, Mayeux HS, Tischler CR, Brown DA (1996) Carbon dioxide enrichment improves growth, water relations and survival of droughted honey mesquite (*Prosopis glandulosa*) seedlings. *Tree Physiology* 16:817-823
- Polley HW, Johnson HB, Tischler CR, Torbert HA (1999a) Links between transpiration and plant nitrogen: Variation with atmospheric CO₂ concentration and nitrogen availability. *International Journal of Plant Sciences* 160:535-542
- Polley HW, Tischler CR, Johnson HB, Pennington RE (1999b) Growth, water relations, and survival of drought-exposed seedlings from six maternal families of honey mesquite (*Prosopis glandulosa*): responses to CO₂ enrichment. *Tree Physiology* 19:359-366
- Pregitzer KS, Zak DR, Curtis PS, Kubiske ME, Teeri JA, Vogel CS (1995) Atmospheric CO₂, soil nitrogen and turnover of fine roots. *New Phytologist* 129:579-585
- Prior SA, Rogers HH, Runion GB, Mauney JR (1994) Effects of free-air CO₂ enrichment on cotton root growth. *Agricultural and Forest Meteorology* 70:69-86
- Prior SA, Runion GB, Mitchell RJ, Rogers HH, Amthor JS (1997) Effects of atmospheric CO₂ on longleaf pine: productivity and allocation as influenced by nitrogen and water. *Tree Physiology* 17:397-405

- Prior SA, Torbert HA, Runion GB, Mullins GL, Rogers HH, Mauney JR (1998) Effects of carbon dioxide enrichment on cotton nutrient dynamics. *Journal of Plant Nutrition* 21:1407-1426
- Qaderi MM, Kurepin LV, Reid DM (2006) Growth and physiological responses of canola (*Brassica napus*) to three components of global climate change: temperature, carbon dioxide and drought. *Physiologia Plantarum* 128:710-721
- Radoglou KM, Jarvis PG (1992) The effects of CO₂ enrichment and nutrient supply on growth-morphology and anatomy of *Phaseolus vulgaris* L. seedlings. *Annals of Botany* 70:245-256
- Radoglou KM, Jarvis PG (1993) Effects of atmospheric CO₂ enrichment on early growth of *Vicia faba*, a plant with large cotyledons. *Plant, Cell and Environment* 16:93-98
- Read JJ, Morgan JA (1996) Growth and partitioning in *Pascopyrum smithii* (C₃) and *Bouteloua gracilis* (C₄) as influenced by carbon dioxide and temperature. *Annals of Botany* 77:487-496
- Reddy KR, Koti S, Davidonis GH, Reddy VR (2004) Interactive effects of carbon dioxide and nitrogen nutrition on cotton growth, development, yield, and fiber quality. *Agronomy Journal* 96:1148-1157
- Reddy KR, Robana RR, Hodges HF, Liu XJ, McKinion JM (1998) Interactions of CO₂ enrichment and temperature on cotton growth and leaf characteristics. *Environmental and Experimental Botany* 39:117-129
- Reddy VR, Reddy KR, Hodges HF (1995) Carbon dioxide enrichment and temperature effects on cotton canopy photosynthesis, transpiration, and water-use efficiency. *Field Crops Research* 41:13-23
- Reddy VR, Reddy KR, Wang Z (1997) Cotton responses to nitrogen, carbon dioxide and temperature interactions. *Soil Science and Plant Nutrition* 43:1125-1130
- Reekie EG, Bazzaz FA (1989) Competition and patterns of resource use among seedlings of five tropical trees grown at ambient and elevated CO₂. *Oecologia* 79:212-222
- Reich PB et al. (2001) Do species and functional groups differ in acquisition and use of C, N and water under varying atmospheric CO₂ and N availability regimes? A field test with 16 grassland species. *New Phytologist* 150:435-448
- Reining F (1995) The effect of elevated CO₂ concentrations on the competition between *Lamium galeobdolon* and *Stellaria holostea*. *Photosynthetica* 31:501-508
- Retuerto R, Woodward FI (1993) The influence of increased CO₂ and water supply on growth, biomass allocation, and water use efficiency of *Sinapis alba* L. grown under different wind speeds. *Oecologia* 94:415-427
- Rey A, Jarvis PG (1997) Growth responses of young birch trees (*Betula pendula* Roth.) after four and a half year of CO₂ exposure. *Annals of Botany* 80:809-816
- Riikonen J et al. (2004) Silver birch and climate change: variable growth and carbon allocation responses to elevated concentrations of carbon dioxide and ozone. *Tree Physiology* 24:1227-1237
- Rillig MC, Scow KM, Klironomos JN, Allen MF (1997) Microbial carbon-substrate utilization in the rhizosphere of *Gutierrezia sarothrae* grown in elevated atmospheric carbon dioxide. *Soil Biology and Biochemistry* 29:1387-1394

- Rocheffort L, Bazzaz FA (1992) Growth response to elevated CO₂ in seedlings of four co-occurring birch species. *Canadian Journal of Forest Research* 22:1583-1587
- Roden JS, Ball MC (1996a) The effect of elevated CO₂ on growth and photosynthesis of two eucalyptus species exposed to high temperatures and water deficits. *Plant Physiology* 111:909-919
- Roden JS, Ball MC (1996b) Growth and photosynthesis of two eucalypt species during high temperature stress under ambient and elevated CO₂. *Global Change Biology* 2:115-128
- Roden JS, Egerton JJG, Ball MC (1999) Effect of elevated CO₂ on photosynthesis and growth of snow gum (*Eucalyptus pauciflora*) seedlings during winter and spring. *Australian Journal of Plant Physiology* 26:37-46
- Roden JS, Wiggins DJ, Ball MC (1997) Photosynthesis and growth of two rain forest species in simulated gaps under elevated CO₂. *Ecology* 78:385-393
- Rogers HH, Peterson CM, McCrimmon JN, Cure JD (1992) Response of plant roots to elevated atmospheric carbon dioxide. *Plant, Cell and Environment* 15:749-752
- Romanova AK, Mudrik VA, Novichkova NS, Demidova RN, Polyakova VA (2002) Physiological and biochemical characteristics of sugar beet plants grown at an increased carbon dioxide concentration and at various nitrate doses. *Russian Journal of Plant Physiology* 49:204-210
- Ronn R, Ekelund F, Christensen S (2003) Effects of elevated atmospheric CO₂ on protozoan abundance in soil planted wheat and on decomposition of wheat roots. *Plant and Soil* 251:13-21
- Rouhier H, Read DJ (1998a) Plant and fungal responses to elevated atmospheric carbon dioxide in mycorrhizal seedlings of *Pinus sylvestris*. *Environmental and Experimental Botany* 40:237-246
- Rouhier H, Read DJ (1998b) The role of mycorrhiza in determining the response of *Plantago lanceolata* to CO₂ enrichment. *New Phytologist* 139:367-373
- Rouhier H, Read DJ (1999) Plant and fungal responses to elevated atmospheric CO₂ in mycorrhizal seedlings of *Betula pendula*. *Environmental and Experimental Botany* 42:231-241
- Roumet C, Garnier E, Suzor H, Salager JL, Roy J (2000) Short and long-term responses of whole-plant gas exchange to elevated CO₂ in four herbaceous species. *Environmental and Experimental Botany* 43:155-169
- Rufty TW, Raper Jr CD, Jackson WA (1981) Nitrogen assimilation, root growth and whole plant responses of soybean to root temperature, and to carbon dioxide and light in the aerial environment. *New Phytologist* 88:607-619
- Runion GB et al. (2006) Effects of Elevated Atmospheric Carbon Dioxide on Biomass and Carbon Accumulation in a Model Regenerating Longleaf Pine Community. *Journal of Environmental Quality* 35:1478-1486
- Runion GB, Entry JA, Prior SA, Mitchell RJ, Rogers HH (1999) Tissue chemistry and carbon allocation in seedlings of *Pinus palustris* subjected to elevated atmospheric CO₂ and water stress. *Tree Physiology* 19:329-335
- Ryle GJA, Powell CE, Davidson IA (1992a) Growth of white clover, dependent on N₂ fixation, in elevated CO₂ and temperature. *Annals of Botany* 70:221-228

- Ryle GJA, Powell CE, Tewson V (1992b) Effect of elevated CO₂ on photosynthesis, respiration and growth of perennial ryegrass. *Journal of Experimental Botany* 43:811-818
- Sa T (1997) Effect of phosphorus stress on photosynthesis and nitrogen fixation of soybean plant under CO₂ enrichment. *Agricultural Chemistry and Biotechnology* 40:134-138
- Saebo A, Mortensen LM (1996) Growth, morphology and yield of wheat, barley and oats grown at elevated atmospheric CO₂ concentration in a cool, maritime climate. *Agriculture, Ecosystems and Environment* 57:9-15
- Salsman KJ, Jordan DN, Smith SD, Neuman DS (1999) Effect of atmospheric CO₂ enrichment on root growth and carbohydrate allocation of *Phyaseolus* SPP. *International Journal of Plant Sciences* 160:1075-1081
- Samarakoon AB, Gifford RM (1996) Water use and growth of cotton in response to elevated CO₂ in wet and drying soil. *Australian Journal of Plant Physiology* 23:63-74
- Samuelson LJ, Seiler JR (1992) Fraser fir seedling gas exchange and growth in response to elevated CO₂. *Environmental and Experimental Botany* 32:351-356
- Samuelson LJ, Seiler JR (1993a) Interactive role of elevated CO₂, nutrient limitations, and water-stress in the growth-responses of red spruce seedlings. *Forest Science* 39:348-358
- Samuelson LJ, Seiler JR (1993b) Red spruce seedling gas exchange in response to elevated CO₂, water stress, and soil fertility treatments. *Canadian Journal of Forest Research* 24:954-959
- Sanders IR, Streitwolf-Engel R, Van Der Heijden MGA, Boller T, Wiemken A (1998) Increased allocation to external hyphae of arbuscular mycorrhizal fungi under CO₂ enrichment. *Oecologia* 117:496-503
- Santrucek J, Santruckova H, Kveton J, Simkova M, Rohacek K (1994) The effect of elevated CO₂ concentration on photosynthetic CO₂ fixation, respiration and carbon economy of wheat plants. *Rostlinna Vyroba* 40:689-696
- Sasek TW, Strain BR (1988) Effects of carbon dioxide enrichment on the growth and morphology of kudzu (*Pueraria lobata*). *Weed Science* 36:28-36
- Sasek TW, Strain BR (1990) Implications of atmospheric CO₂ enrichment and climatic change for the geographical distribution of two introduced vines in the U.S.A. *Climate Change* 16:31-51
- Sasek TW, Strain BR (1991) Effects of CO₂ enrichment on the growth and morphology of a native and an introduced honeysuckle vine. *American Journal of Botany* 78:69-75
- Schaffer B, Searle C, Whiley AW, Nissen RJ (1996) Effects of atmospheric CO₂ enrichment and root restriction on leaf gas exchange and growth of banana (*Musa*). *Physiologia Plantarum* 97:685-693
- Schaffer B, Whiley AW, Searle C (1999) Atmospheric CO₂ enrichment, root Restriction, photosynthesis, and dry-matter partitioning in subtropical and tropical fruit crops. *HortScience* 34:1033-1037
- Schaffer B, Whiley AW, Searle C, Nissen RJ (1997) Leaf gas exchange, dry matter partitioning, and mineral element concentrations in Mango as influenced by elevated atmospheric carbon dioxide and root restriction. *Journal of the American Society of Horticultural Science* 122:849-855

- Schapendonk AHCM, Van Oijen M, Dijkstra P, Pot CS, Jordi WJRM, Stoop GM (2000) Effects of elevated CO₂ concentration on photosynthetic acclimation and productivity of two potato cultivars grown in open-top chambers. *Australian Journal of Plant Physiology* 27:1119-1130
- Schappi B, Körner C (1996) Growth responses of an alpine grassland to elevated CO₂. *Oecologia* 105:43-52
- Schenk U, Manderscheid R, Hugen J, Weigel H-J (1995) Effects of CO₂ enrichment and intraspecific competition on biomass partitioning, nitrogen content and microbial biomass carbon in soil of perennial ryegrass and white clover. *Journal of Experimental Botany* 46:987-993
- Schlimme M, Blaschke L, Lagrimini LM, Polle A (2002) Growth performance and lignification in tobacco with suppressed apoplastic anionic peroxidase activity under ambient and elevated CO₂ concentrations. *International Journal of Plant Sciences* 163:749-754
- Schortemeyer M, Atkin OK, McFarlane N, Evans JR (2002) N₂ fixation by *Acacia* species increases under elevated atmospheric CO₂. *Plant, Cell and Environment* 25:567-579
- Seegmuller S, Rennenberg H (1994) Interactive effects of mycorrhization and elevated carbon dioxide on growth of young pedunculate oak (*Quercus rubur* L.) *Plant and Soil* 167:325-329
- Serraj R, Allen LH, Sinclair TR (1999) Soybean leaf growth and gas exchange response to drought under carbon dioxide enrichment. *Global Change Biology* 5:283-291
- Sicher RC (2005) Interactive effects of inorganic phosphate nutrition and carbon dioxide enrichment on assimilate partitioning in barley roots. *Physiologia Plantarum* 123:219-226
- Sicher RC, Kremer DF, Bunce JA (1995) Photosynthetic acclimation and photosynthate partitioning in soybean leaves in response to carbon dioxide enrichment. *Photosynthesis Research* 46:409-417
- Sigurdsson BD, Thorgeirsson H, Linder S (2001) Growth and dry-matter partitioning of young *Populus trichocarpa* in response to carbon dioxide concentration and mineral nutrient availability. *Tree Physiology* 21:941-950
- Silvola J, Ahlholm U (1995) Combined effects of CO₂ concentration and nutrient status on the biomass production and nutrient uptake of birch seedlings (*Betula pendula*). *Plant and Soil* 168-169:547-553
- Sionit N (1983) Response of soybean to two levels of mineral nutrition in CO₂-enriched atmosphere. *Crop Science* 23:329-333
- Sionit N, Hellmers H, Strain BR (1980) Growth and yield of wheat under CO₂ enrichment and water stress. *Crop Science* 20:687-690
- Sionit N, Hellmers H, Strain BR (1982) Interaction of atmospheric CO₂ enrichment and irradiance on plant growth. *Agronomy Journal* 74:721-725
- Sionit N, Mortensen DA, Strain BR, Hellmers H (1981a) Growth response of wheat to CO₂ enrichment and different levels of mineral solution. *Agronomy Journal* 73:1023-1027
- Sionit N, Strain BR, Flint EP (1987) Interaction of temperature and CO₂ enrichment on soybean: growth and dry matter partitioning. *Canadian Journal of Plant Science* 67:59-67
- Sionit N, Strain BR, Hellmers H, Kramer PJ (1981b) Effects of atmospheric CO₂ concentration and water stress on water relations of wheat. *Botanical Gazette* 142:191-196

- Sionit N, Strain BR, Hellmers H, Riechers GH, Jaeger CH (1985) Long-term atmospheric CO₂ enrichment affects the growth and development of *Liquidambar styraciflua* and *Pinus taeda* seedlings. *Canadian Journal of Forest Research* 15:468-471
- Smart DR, Penuelas J (2005) Short-term CO₂ emissions from planted soil subject to elevated CO₂ and simulated precipitation. *Applied Soil Ecology* 28:247-257
- Smart DR, Ritchie K, Bloom AJ, Bugbee BB (1998) Nitrogen balance for wheat canopies (*Triticum aestivum* cv. Veery 10) grown under elevated and ambient CO₂ concentrations. *Plant, Cell and Environment* 21:753-763
- Smith SD, Strain BR, Sharkey TD (1987) Effects of CO₂ enrichment on four Great Basin grasses. *Functional Ecology* 1:139-143
- Srivastava AC, Pal M, Sengupta UK (2001) Root growth and nitrogen fixation activities of mungbean (*Phaseolus radiatus*) grown under elevated carbon dioxide. *Indian Journal of Agricultural Sciences* 71:203-204
- Stanghellini C, Bunce JA (1993) Response of photosynthesis and conductance to light, CO₂, temperature and humidity in tomato plants acclimated to ambient and elevated CO₂. *Photosynthetica* 29:487-497
- Stewart JD, Hoddinott J (1993) Photosynthetic acclimation to elevated atmospheric carbon dioxide and UV irradiation in *Pinus banksiana*. *Physiologia Plantarum* 88:493-500
- Stirling CM, Heddell-Cowie M, Jones ML, Ashenden TW, Sparks TH (1998) Effects of elevated CO₂ and temperature on growth and allometry of five native fast-growing annual species. *New Phytologist* 140:343-354
- Stock WD, Evans JR (2006) Effects of water availability, nitrogen supply and atmospheric CO₂ concentrations on plant nitrogen natural abundance values. *Functional Plant Biology* 33:219-227
- Stocklin J, Schweizer K, Körner C (1998) Effects of elevated CO₂ and phosphorus addition on productivity and community composition on intact monoliths from calcareous grassland. *Oecologia* 116:50-56
- Sullivan JH, Teramura AH (1994) The effects of UV-B radiation on loblolly pine. 3. Interaction with CO₂ enhancement. *Plant, Cell and Environment* 17:311-317
- Suter D, Frehner M, Fischer BU, Nosberger J, Luscher A (2002) Elevated CO₂ increases carbon allocation to the roots of *Lolium perenne* under free-air CO₂ enrichment but not in a controlled environment. *New Phytologist* 154:65-75
- Suter D, Nosberger J, Luscher A (2001) Response of perennial ryegrass to free-air CO₂ enrichment (FACE) is related to the dynamics of sward structure during regrowth. *Crop Science* 41:810-817
- Syvertsen JP, Graham JH (1999) Phosphorus supply and arbuscular mycorrhizas increase growth and net gas exchange responses of two *Citrus* spp. grown at elevated [CO₂]. *Plant and Soil* 208:209-219
- Tang JJ, Chen J, Chen X (2006) Response of 12 weedy species to elevated CO₂ in low-phosphorus-availability soil. *Ecological Research* 21:664-670
- Tang S, Xi L, Zheng J, Li H (2003) Response to elevated CO₂ of Indian Mustard and sunflower growing on copper contaminated soil. *Bulletin of Environmental Contamination and Toxicology* 71:988-997
- Temperton VM, Grayston SJ, Jackson G, Barton CVM, Millard P, Jarvis PG (2003a) Effects of elevated carbon dioxide concentration on growth and nitrogen fixation in *Alnus glutinosa* in a long-term field experiment. *Tree Physiology* 23:1051-1059

- Temperton VM, Millard P, Jarvis PG (2003b) Does elevated atmospheric carbon dioxide affect internal nitrogen allocation in the temperate trees *Alnus glutinosa* and *Pinus sylvestris*. *Global Change Biology* 9:286-294
- Thomas RB, Bashkin MA, Richter DD (2000) Nitrogen inhibition of nodulation and N₂ fixation of a tropical N₂-fixing tree (*Gliricidia sepium*) grown in elevated atmospheric CO₂. *New Phytologist* 145:233-243
- Thomas RB, Richter DD, Ye H (1991) Nitrogen dynamics and growth of seedlings of an N-fixing tree (*Gliricidia sepium* (Jacq.) Walp) exposed to elevated atmospheric carbon dioxide. *Oecologia* 88:415-421
- Thomas RB, Strain BR (1991) Root restriction as a factor in photosynthetic acclimation of cotton seedlings grown in elevated carbon dioxide. *Plant Physiology* 96:627-634
- Thomas SC, Jasienski M, Bazzaz FA (1999) Early vs. asymptotic growth responses of herbaceous plants to elevated CO₂. *Ecology* 80:1552-1567
- Tingey DT, McKane RB, Olszyk DM, Johnson MG, Rygielwicz PT (2003) Elevated CO₂ and temperature alter nitrogen allocation in Douglas-fir. *Global Change Biology* 9:1038-1050
- Tissue DT, Megonigal PJ, Thomas RB (1997) Nitrogenase activity and N₂ fixing are stimulated by elevated CO₂ in a tropical N₂-fixing tree. *Oecologia* 109:28-33
- Tissue DT, Thomas RB, Strain BR (1996) Growth and photosynthesis of loblolly pine (*Pinus taeda*) after exposure to elevated CO₂ for 19 months in the field. *Tree Physiology* 16:49-59
- Tocquin P, Ormenese S, Pieltain A, Detry N, Bernier G, Perilleux C (2006) Acclimation of *Arabidopsis thaliana* to long-term CO₂ enrichment and nitrogen supply is basically a matter of growth rate adjustment. *Physiologia Plantarum* 128:677-688
- Tognetti R, Johnson JD (1999) Responses of growth, nitrogen and carbon partitioning to elevated atmospheric CO₂ concentration in live oak (*Quercus virginiana* Mill.) seedlings in relation to nutrient supply. *Annals of Forest Science* 56:91-105
- Tognoni F, Halevy AH, Wittwer SH (1967) Growth of bean and tomato plants as affected by root absorbed growth substances and atmospheric carbon dioxide. *Planta* 72:43-52
- Tolley LC, Strain BR (1984a) Effects of CO₂ enrichment and water stress on growth of *Liquidambar styraciflua* and *Pinus taeda* seedlings. *Canadian Journal of Botany* 62:2135-2139
- Tolley TC, Strain BR (1984b) Effects of CO₂ enrichment on growth of *Liquidambar styraciflua* and *Pinus taeda* seedlings under different irradiance levels. *Canadian Journal of Forest Research* 14:343-350
- Tosserams M, Visser A, Groen M, Kalis G, Magendans E, Rozema J (2001) Combined effects of CO₂ concentrations and enhanced UV-B radiation on faba bean. *Plant Ecology* 154:197-210
- Tremblay N, Yelle S, Gosselin A (1987) Effects of CO₂ enrichment, nitrogen and phosphorus fertilization on growth and yield of celery transplants. *HortScience* 22:875-876
- Tremmel DC, Patterson DT (1993) Responses of soybean and five weeds to CO₂ enrichment under two temperature regimes. *Canadian Journal of Plant Science* 73:1249-1260

- Tschaplinski TJ, Norby RJ, Wullschleger SD (1993) Responses of loblolly pine seedlings to elevated CO₂ and fluctuating water supply. *Tree Physiology* 13:283-296
- Tschaplinski TJ, Stewart DB, Hanson PJ, Norby RJ (1995) Interactions between drought and elevated CO₂ on growth and gas exchange of seedlings of three deciduous tree species. *New Phytologist* 129:63-71
- Upreti DC, Mahalaxmi V (2000) Effects of elevated CO₂ and nitrogen nutrition on photosynthesis, growth and carbon-nitrogen balance in *Brassica juncea*. *Journal of Agronomy and Crop Science* 184:271-276
- Upreti DC, Mishra RS, Abrol YP (1995) Effect of elevated CO₂ on the photosynthesis, growth and water relation of *Brassica* species under moisture stress. *Journal of Agronomy and Crop Science* 175:231-237
- Uselman SM, Qualls RG, Thomas RB (2000) Effects of increased atmospheric CO₂, temperature, and soil N availability on root exudation of dissolved organic carbon by a N-fixing tree (*Robinia pseudocacia* L.). *Plant and Soil* 222:191-202
- Usuda H, Shimogawara K (1998) The effects of increased atmospheric carbon dioxide on growth, carbohydrates, and photosynthesis in radish, *Raphanus sativus*. *Plant and Cell Physiology* 39:1-7
- van de Staaij JWM, Lenssen GM, Stroetenga M, Rozema J (1993) The combined effects of elevated CO₂ levels and UV-B radiation on growth characteristics of *Elymus athericus* (= *E. pycnanathus*). *Vegetatio* 104/105:433-439
- van Ginkel JH, Gorissen A, van Veen JA (1996) Long-term decomposition of grass roots as affected by elevated atmospheric carbon dioxide. *Journal of Environmental Quality* 25:1122-1128
- Van Vuuren MMI, Robinson D, Fitter AH, Chasalow SD, Williamson L, Raven JA (1997) Effects of elevated atmospheric CO₂ and soil water availability on root biomass, root length, and N, P and K uptake by wheat. *New Phytologist* 135:455-465
- Vanhatalo M, Back J, Huttunen S (2003) Differential impacts of long-term CO₂ and O₃ exposure on growth of northern conifer and deciduous tree species. *Trees-Structure and Function* 17:211-220
- Vann CD, Megonigal JP (2002) Productivity responses of *Acer rubrum* and *Taxodium distichum* seedlings to elevated CO₂ and flooding. *Environmental Pollution* 116:S31-S36
- Vanoosten JJ, Wilkins D, Besford RT (1995) Acclimation of tomato to different carbon-dioxide concentrations- relationships between biochemistry and gas-exchange during leaf development. *New Phytologist* 130:357-367
- Verburg PSJ, Cheng W, Johnson DW, Schorran DE (2004) Nonsymbiotic nitrogen fixation in 3-year-old jeffrey pines and the role of elevated CO₂. *Canadian Journal of Forest Research* 34:1979-1984
- Visser AJ, Tosserams M, Groen MW, Magendans GWH, Rozema J (1997) The combined effects of CO₂ concentration and solar UV-B radiation on faba bean growth in open-top chambers *Plant, Cell and Environment* 20:189-199
- Vivin P, Gross P, Aussenac G, Guehl JM (1995) Whole-plant CO₂ exchange, carbon partitioning and growth in *Quercus robur* seedlings exposed to elevated CO₂. *Plant Physiology and Biochemistry* 33:201-211
- Vivin P, Guehl JM (1997) Changes in carbon uptake and allocation patterns in *Quercus robur* seedlings in response to elevated CO₂ and water stress: an evaluation with ¹³C labelling. *Annals of Forest Science* 54:597-610

- Vivin P, Guehl JM, Clement A, Aussenac G (1996a) The effects of elevated CO₂ and water stress on whole plant CO₂ exchange, carbon allocation and osmoregulation in oak seedlings. *Annales des Sciences Forestieres* 53:447-459
- Vivin P, Martin F, Guehl JM (1996b) Acquisition and within-plant allocation of ¹³C and ¹⁵N in CO₂-enriched *Quercus robur* plants. *Physiologia Plantarum* 98:89-96
- Vogel CS, Curtis PS, Thomas RB (1997) Growth and nitrogen accretion of dinitrogen-fixing *Alnus glutinosa* (L.) Gaertn. under elevated carbon dioxide. *Plant Ecology* 130:63-70
- Volin JC, Reich PB (1996) Interaction of elevated CO₂ and O₃ on growth, photosynthesis and respiration of three perennial species grown in low and high nitrogen. *Physiologia Plantarum* 97:678-684
- Wait DA, Jones CG, Wynn J, Woodward FI (1999) The fraction of expanding to expanded leaves determines the biomass response of *Populus* to elevated CO₂. *Oecologia* 121:193-200
- Walker RF, Geisinger DR, Johnson DW, Ball JT (1997) Elevated atmospheric CO₂ and soil N fertility effects on growth, mycorrhizal colonization, and xylem water potential of juvenile ponderosa pine in a field soil. *Plant and Soil* 195:25-36
- Walker RF, Geisinger DR, Johnson DW, Ball JT (1998) Atmospheric CO₂ enrichment and soil N fertility effects on juvenile ponderosa pine: Growth ectomycorrhizal development, and xylem water potential. *Forest Ecology and Management* 102:33-44
- Wall GW et al. (2006) Interactive effects of elevated carbon dioxide and drought on wheat. *Agronomy Journal* 98:354-381
- Wan SQ, Norby RJ, Pregitzer KS, Ledford J, O'Neill EG (2004) CO₂ enrichment and warming of the atmosphere enhance both productivity and mortality of maple tree fine roots. *New Phytologist* 162:437-446
- Wand SJE, Midgley GF, Musil CF (1996) Physiological and growth responses of two African species, *Acacia karroo* and *Themeda triandra*, to combined increases in CO₂ and UV-B radiation. *Physiologia Plantarum* 98:882-890
- Wang XZ, Curtis PS (2001) Gender-specific responses of *Populus tremuloides* to atmospheric CO₂ enrichment. *New Phytologist* 150:675-684
- Wang XZ, Griffin KL (2003) Sex-specific physiological and growth responses to elevated atmospheric CO₂ in *Silene latifolia* Poiret. *Global Change Biology* 9:612-618
- Wang YP, Rey A, Jarvis PG (1998) Carbon balance of young birch trees grown in ambient and elevated atmospheric CO₂ concentration. *Global Change Biology* 4:797-807
- Wasaki J et al. (2005) Root exudation, phosphorus acquisition, and microbial diversity in the rhizosphere of white lupine as affected by phosphorus supply and atmospheric carbon dioxide concentration. *Journal of Environmental Quality* 34:2157-2166
- Watling JR, Press MC (1997) How is the relationship between C₄ cereal *Sorghum bicolor* and C₃ root hemi-parasites *Striga hermonthica* and *Striga asiatica* affected by elevated CO₂? *Plant, Cell and Environment* 20:1292-1300
- Wayne PM, Bazzaz FA (1995) Seedling density modifies the growth responses of yellow birch maternal families to elevated carbon dioxide. *Global Change Biology* 1:315-324
- Weerakoon WM, Olszyk DM, Moss DN (1999) Effects of nitrogen nutrition on responses of rice seedlings to carbon dioxide. *Agriculture, Ecosystems and Environment* 72:1-8

- Wheeler RM, Tibbitts TW, Fitzpatrick AH (1991) Carbon dioxide effects on potato growth under different photoperiods and irradiance. *Crop Science* 31:1209-1213
- Wheeler TR, Morison JIL, Ellis RH, Hadley P (1994) The effects of CO₂ temperature and their interaction on the growth and yield of carrot (*Daucus carota* L.). *Plant, Cell and Environment* 17:1275-1284
- Whitehead SJ, Caporn SJM, Press MC (1997) Effects of elevated CO₂, nitrogen and phosphorus on the growth and photosynthesis of two upland perennials: *Calluna vulgaris* and *Pteridium aquilinum*. *New Phytologist* 135:201-211
- Wieneke S, Prati D, Brandl R, Stocklin J (2004) Genetic variation in *Sanguisorba minor* after 6 years in situ selection under elevated CO₂. *Global Change Biology* 10:1389-1401
- Wilkins D, Van Oosten JJ, Besford RT (1994) Effects of elevated CO₂ on growth and chloroplast proteins in *Prunus avium*. *Tree Physiology* 14:769-779
- Will RE, Teskey RO (1997) Effect of elevated carbon dioxide concentration and root restriction on net photosynthesis, water relations and foliar carbohydrate status of loblolly pine seedlings. *Tree Physiology* 17:655-661
- Williams LE, DeJong TM, Phillips DA (1981) Carbon and nitrogen limitations on soybean seedling development. *Plant Physiology* 68:1206-1209
- Wilsey BJ (1996) Urea additions and defoliation affect plant responses to elevated CO₂ in a C₃ grass from Yellowstone National Park. *Oecologia* 108:321-327
- Wilsey BJ (2001) Effects of elevated CO₂ on the response of *Phleum pratense* and *Poa pratensis* to aboveground defoliation and root feeding nematodes. *International Journal of Plant Sciences* 162:1275-1282
- Wilsey BJ, Coleman JS, McNaughton SJ (1997) Effects of elevated CO₂ and defoliation on grasses: A comparative ecosystem approach. *Ecological Applications* 7:844-853
- Wilsey BJ, McNaughton SJ, Coleman JS (1994) Will increases in atmospheric CO₂ affect regrowth following grazing in C₄ grasses from tropical grasslands? A test with *Sporobolus kentrophyllus*. *Oecologia* 99:141-144
- Winter K, Garcia M, Gottsberger R, Popp M (2001) Marked growth response of communities of two tropical trees species to elevated CO₂ when soil nutrient limitation is removed. *Flora* 196:47-58
- Winter K, Garcia M, Lovelock CE, Gottsberger R, Popp M (2000) Responses of model communities of two tropical tree species to elevated atmospheric CO₂: growth on unfertilized soil. *Flora* 195:289-302
- Winter K, Lovelock CE (1999) Growth responses of seedlings of early and late successional tropical forest trees to elevated atmospheric CO₂. *Flora* 194:221-227
- Winter K, Richter A, Engelbrecht B, Posada J, Virgo A, Popp M (1997) Effect of elevated CO₂ on growth and crassulacean-acid-metabolism activity of *Kalanchoe pinnata* under tropical conditions. *Planta* 201:389-396
- Wolf J (1996a) Effects of nutrient (NPK) supply on faba bean response to elevated atmospheric CO₂. *Netherlands Journal of Agricultural Science* 44:163-178
- Wolf J (1996b) Effects of nutrient supply (NPK) on spring wheat response to elevated atmospheric CO₂. *Plant and Soil* 185:113-123

- Wolf J (1998) Effects of nutrient (NPK) supply on sugar beet response to elevated atmospheric CO₂. *Netherlands Journal of Agricultural Science* 46:157-170
- Wong SC, Osmond CB (1991) Elevated atmospheric partial-pressure of CO₂ and plant-growth. 3. Interactions between *Triticum aestivum* (C₃) and *Echinochloa frumentacea* (C₄) during growth in mixed culture under different CO₂, N-nutrition and irradiance treatments, with emphasis on belowground responses estimated using delta ¹³C value of root biomass. *Australian Journal of Plant Physiology* 18:137-152
- Wood CW, Torbert HA, Rogers HH, Runion GB, Prior SA (1994) Free-air CO₂ enrichment effects on soil carbon and nitrogen. *Agricultural and Forest Meteorology* 70:103-116
- Wulff R, Strain B (1982) Effects of CO₂ enrichment on growth and photosynthesis in *Desmodium paniculatum*. *Canadian Journal of Botany* 60:1084-1091
- Wyse R (1980) Growth of sugarbeet seedlings in various atmospheres of oxygen and carbon dioxide. *Crop Science* 20:456-458
- Xiao C-W, Sun OJ, Zhou G-S, Zhao J-Z, Wu G (2005) Interactive effects of elevated CO₂ and drought stress on leaf water potential and growth in *Caragana intermedia*. *Trees* 19:711-720
- Xu DQ, Gifford RM, Chow WS (1994) Photosynthetic acclimation in pea and soybean to high atmospheric CO₂ partial pressure. *Plant Physiology* 106:661-671
- Yakimchuk R, Hoddinott J (1994) The influence of ultraviolet-B light and carbon dioxide enrichment on the growth and physiology of seedlings of three conifer species. *Canadian Journal of Forest Research* 24:1-8
- Yazaki K et al. (2004) Effects of elevated CO₂ concentration on growth, annual ring structure and photosynthesis in *Larix kaempferi* seedlings. *Tree Physiology* 24:951-959
- Yelle S, Gosselin A, Trudel MJ (1987) Effect of atmospheric CO₂ concentration and root-zone temperature on growth, mineral nutritional and nitrate reductase activity of greenhouse tomato. *Journal of the American Society of Horticultural Science* 112:1036-1040
- Yoder CK, Vivin P, Defalco LA, Seemann JR, Nowak RS (2000) Root growth and function of three Mojave Desert grasses in response to elevated atmospheric CO₂ concentration. *New Phytologist* 145:245-256
- Yong JWH, Wong SC, Letham DS, Hocart CH, Farquhar GD (2000) Effects of elevated CO₂ and nitrogen nutrition on cytokinins in the xylem sap and leaves of cotton. *Plant Physiology* 124:767-779
- Zak DR, Pregitzer KS, Curtis PS, Teeri JA, Fogel R, Randlett DL (1993) Elevated atmospheric CO₂ and feedback between carbon and nitrogen cycles. *Plant and Soil* 151:105-117
- Zak DR, Pregitzer KS, Curtis PS, Vogel CS, Holmes WE, Lussenhop J (2000) Atmospheric CO₂, soil-N availability, and allocation of biomass and nitrogen by *Populus tremuloides*. *Ecological Applications* 10:34-46
- Zebian KJ, Reekie EG (1998) The interactive effects of atmospheric carbon dioxide and light on stem elongation in seedlings of four species. *Annals of Botany* 81:185-193
- Zhang JH, Lechowicz MJ (1995) Responses to CO₂ enrichment by two genotypes of *Arabidopsis thaliana* differing in their sensitivity to nutrient availability. *Annals of Botany* 75:491-499

- Zhang S, Dang Q-L, Yu X (2006) Nutrient and [CO₂] elevation had synergistic effects on biomass production but not on biomass allocation of white birch seedlings. *Forest Ecology and Management* 234:238-244
- Zhao D, Reddy KR, Kakani VG, Read JJ, Sullivan JH (2003) Growth and physiological responses of cotton (*Gossypium hirsutum* L.) to elevated carbon dioxide and ultraviolet-B radiation under controlled environmental conditions. *Plant, Cell and Environment* 26:771-782
- Ziska LH (2003) Evaluation of the growth response of six invasive species to past, present and future atmospheric carbon dioxide. *Journal of Experimental Botany* 54:395-404
- Ziska LH, Bunce JA (1994) Increasing growth temperature reduces the stimulatory effect of elevated CO₂ on photosynthesis or biomass in 2 perennial species. *Physiologia Plantarum* 91:183-190
- Ziska LH, Bunce JA (1995) Growth and photosynthetic response of three soybean cultivars to simultaneous increases in growth temperature and CO₂. *Physiologia Plantarum* 94:575-584
- Ziska LH, Bunce JA (1997a) Influence of increasing carbon dioxide concentration on the photosynthetic and growth stimulation of selected C₄ crops and weeds. *Photosynthesis Research* 54:199-208
- Ziska LH, Bunce JA (1997b) The role of temperature in determining the stimulation of CO₂ assimilation at elevated carbon dioxide concentration in soybean seedlings. *Physiologia Plantarum* 100:126-132
- Ziska LH, Bunce JA (1999) Effect of elevated carbon dioxide concentration at night on the growth and gas exchange of selected C₄ species. *Australian Journal of Plant Physiology* 26:71-77
- Ziska LH, Bunce JA, Caulfield FA (2001) Rising atmospheric carbon dioxide and seed yield of soybean genotypes. *Crop Science* 41:385-391
- Ziska LH, Caulfield FA (2000) Rising CO₂ and pollen production of common ragweed (*Ambrosia artemisiifolia*), a known allergy-inducing species: implications for public health. *Australian Journal of Plant Physiology* 3936:893-898
- Ziska LH, Faulkner S, Lydon J (2004) Changes in biomass and root:shoot ratio of field-grown Canada thistle (*Cirsium arvense*), a noxious, invasive weed, with elevated CO₂: implications for control with glyphosate. *Weed Science* 52:584-588
- Ziska LH, Hogan KP, Smith AP, Drake BG (1991) Growth and photosynthetic response of nine tropical species with long-term exposure to elevated carbon dioxide. *Oecologia* 86:383-389
- Ziska LH, Namuco O, Moya T, Quilang J (1997) Growth and yield response of field-grown tropical rice to increasing carbon dioxide and air temperature. *Agronomy Journal* 89:45-53
- Ziska LH, Sicher RC, Bunce JA (1999) The impact of elevated carbon dioxide on the growth and gas exchange of three C₄ species differing in CO₂ leak rates. *Physiologia Plantarum* 105:74-80
- Ziska LH, Sicher RC, Kremer DF (1995) Reversibility of photosynthetic acclimation of Swiss chard and sugarbeet grown at elevated concentrations of CO₂. *Physiologia Plantarum* 95:355-364
- Ziska LH, Teramura AH (1992a) CO₂ enhancement of growth and photosynthesis in rice (*Oryza sativa*) - modification by increased ultraviolet-B radiation. *Plant Physiology* 99:473-481

Ziska LH, Teramura AH (1992b) Intraspecific variation in the response of rice (*Oryza sativa*) to increased CO₂ - photosynthetic, biomass and reproductive characteristics. *Physiologia Plantarum* 84:269-276