

Table S1. Publications used for the literature review (references only cited in the introduction and discussion and/or used only for theoretical context are excluded; studies with useful findings, but not specific to subtropical or boreal / temperate wetlands are left unticked in the 3rd and 4th columns).

Reference	Reference #	Subtropical	Boreal / Temperate	Algae	Trees	Other plants
Agnew et al. 1993	177		x		x	
Alexander 1971	114	x				x
Allen et al. 1997	125	x			x	
Allen et al. 1996	68	x			x	
Alvarez-Lopéz 1990	118	x			x	
Armentano et al. 2006	59	x				x
Backéus 1986	190		x			x
Barkman 1992	141		x			x
Belyea and Clymo	140		x			x
Bengtsson et al. 2016	145		x			x
Bobbink et al. 1992	169		x			x
Bragazza et al. 1998	188		x			x
Busch et al. 1998	58	x				x
Caruso 2002	163		x	x		
Chapin 1980	96	x				x
Cooper et al. 2016	136		x	x		
Dasgupta et al. 2015	185		x			x
Davis 1991	89	x				x
Davis et al. 1994	98	x				x
Day et al. 2006a	106	x			x	
Day et al. 2006b	108	x			x	
DeColibus et al. 2017	180		x	x		
Dickson & Broyer	103	x			x	
Dickson et al. 1972	104	x			x	
Dodds 2003	82	x		x		
Doyle et al. 2010	115	x				x
Duever et al. 1984	126	x			x	
Elcan and Pezeshki	77	x			x	
Effler & Goyer 2006	105	x			x	
Effler et al. 2006	100	x			x	
Eppinga et al. 2010	162		x		x	x
Eppinga et al. 2009b	173		x			x
Eppinga et al. 2009a	31		x			x
Eppinga et al. 2008	148		x			x
Fay and Lavoie 2009	154		x		x	
Feliciano 2015	67	x			x	
Frangi and Lugo 1980	119	x			x	
Frankl and Schmeidl	150		x			x
Fry et al. 2000	128	x			x	
Furtado et al. 1980	117	x			x	
Gaiser 2009	80	x		x		

Reference	Reference #	Subtropical	Boreal / Temperate	Algae	Trees	Other plants
Gaiser et al. 2015	45	x		x		
Gaiser et al. 2010	40	x		x		
Gaiser et al. 2006	79	x		x		
Givnish et al. 2008	52	x				x
Glaser et al. 2004	187		x			
Gottlieb et al. 2006	37	x		x		
Gottlieb et al. 2005	46	x		x		
Gunderson 2001	60	x				x
Gunnarsson and	156		x			x
Hagerthey et al. 2011	43	x				x
Hagerthey et al. 2010	84	x		x		
Hagerthey et al. 2008	99	x		x		
Hájek and Beckett	143		x	x		x
Hayward and Clymo	189		x			x
Heijmans et al. 2002	166		x			x
Heil et al. 1988	170		x			x
Herndon et al. 1991	51	x				x
Hesse et al. 1998	107	x			x	
Hirano et al. 2017	151		x			x
Hook 1984	75	x			x	
Hörnberg et al. 1998	195		x		x	
Hörnberg et al. 1997	178		x		x	
Imbert & Delbé, 2006	62	x				x
Iremonger and Kelly	157		x		x	
Johnson et al. 1997	138	x		x		
Keim et al. 2012	109	x			x	
Kemp et al. 1985	133	x			x	
Kilroy et al. 2009	139		x	x		
Kokfelt et al. 2009	160		x	x		
Krauss & Dubersten	127	x			x	
Krauss et al. 2015	132	x			x	
Krauss et al. 2009	104	x			x	
Krauss et al. 2007	124	x			x	
La Hée and Gaiser	38	x		x		
Laiho and Finer 1996	191		x			x
Lamers et al. 2007	153		x			x
Lee et al. 2014	42	x		x		
Lee et al. 2013	39	x		x		
Lei and Middleton	78	x			x	
Limpens et al. 2017	167		x			x
Limpens et al. 2004	159		x			x
Liu et al. 2017	121	x				
Lodge 2016	34	x			x	x
Loveless 1959	49	x		x		x
Lynch et al. 2003	197	x			x	
Lugo et al. 1988	120	x			x	
Malmer et al. 2003	149		x			x

Reference	Reference #	Subtropical	Boreal / Temperate	Algae	Trees	Other plants
Malmer et al. 1994	171		x			x
Marazzi et al. 2017	40	x		x		
Marschner 1995	174		x		x	
Mazzei et al. 2018	110	x		x		
Mazzei and Gaiser	111	x		x		
Mazzotti et al. 2005	61	x				x
McKee et al. 2002	129	x			x	
McWilliams and	130	x			x	
Meerman 2006	63	x				x
Megonigal and Day	69	x			x	
Miao and Sklar 1998	50	x				x
Mosley 2015	164			x		
Newman et al. 1998	25	x				x
Newman et al. 1996	97	x				x
Nilsson and Wardle	182		x	x		
Noe et al. 2001	90	x				
Novelo and Tavera	48	x		x		
Nyman and Lindau	102	x			x	
Obeysekera et al. 2015	112	x		x		
Ohlson et al. 2001	155		x		x	
Osland et al. 2013	10	x				x
Pastor et al. 2002	165		x			x
Pezeshki 1991	72	x			x	
Pezeshki 1994	73	x			x	
Pezeshki et al. 1986	71	x			x	
Pierfelice et al. 2017	122	x			x	
Rejmánková et al.	72	x				x
Rejmánková et al.	74	x				x
Rejmánková and	47	x		x		
Richardson et al. 1999	64	x				
Rietkerk et al. 2004	175					x
Rober et al. 2015	161		x	x		
Robroek et al. 2007	142		x			x
Ross et al. 2003	53	x				x
Ross et al. 2006	54	x				x
Ross et al. 2000	116	x				x
Rutter 1963	158		x		x	
Sah et al. 2015	113	x				x
Sah et al. 2014	56	x				x
Schuur et al. 2013	179		x	x		
Shanklin and	70				x	
Sharitz and Mitsch	12	x			x	
Shetler et al. 2008	192		x			x
Siegel et al. 2006	186		x			x
Steward and Ornes	87	x				x
Steward and Ornes	88	x				x
Sun et al. 2001	66	x			x	

Reference	Reference #	Subtropical	Boreal / Temperate	Algae	Trees	Other plants
Takagi et al. 1999	152		x			x
Thomas et al. 2015	123	x			x	
Thompson and Timoney et al. 1997	193 137		x x			x
Todd et al. 2010	55	x		x		x
Tomassen et al. 2003	172		x		x	
Toth 1987	57	x				x
Trexler and Loftus	44	x		x		
Twenhöven 1992	168		x			x
Van Breemen 1995	146					x
Van Meter 1965	41	x		x		
Vitt 2006	144		x			x
Wang et al. 2017	76		x		x	
Wetzel et al. 2005	176	x			x	x
Więcek et al. 2013	147		x			
Zhai et al. 2018	131	x			x	
Zoltai et al. 1998	194		x		x	
Zoltai et al. 1988	196		x		x	