

# Terry M Bricker

## List of Publications by Year in descending order

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80  
papers

3,604  
citations

109321

35  
h-index

144013

57  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2320  
citing authors

#	ARTICLE	IF	CITATIONS
1	The extrinsic proteins of Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 121-142.	1.0	260
2	The structure and function of CPa-1 and CPa-2 in Photosystem II. <i>Photosynthesis Research</i> , 1990, 24, 1-13.	2.9	231
3	Oxygen evolution in the absence of the 33-kilodalton manganese-stabilizing protein. <i>Biochemistry</i> , 1992, 31, 4623-4628.	2.5	130
4	The Manganese-stabilizing Protein Is Required for Photosystem II Assembly/Stability and Photoautotrophy in Higher Plants. <i>Journal of Biological Chemistry</i> , 2005, 280, 16170-16174.	3.4	129
5	The PsbP Protein Is Required for Photosystem II Complex Assembly/Stability and Photoautotrophy in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 24833-24841.	3.4	110
6	Amino acid oxidation of the D1 and D2 proteins by oxygen radicals during photoinhibition of Photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2988-2993.	7.1	109
7	Close association of the 33 kDa extrinsic protein with the apoprotein of CPa1 in photosystem II. <i>FEBS Letters</i> , 1988, 231, 111-117.	2.8	104
8	The structure and function of CP47 and CP43 in Photosystem II. <i>Photosynthesis Research</i> , 2002, 72, 131-146.	2.9	103
9	Isolation of a highly active Photosystem II preparation from <i>Synechocystis</i> 6803 using a histidine-tagged mutant of CP 47. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1409, 50-57.	1.0	100
10	Proteomic and genetic approaches to identifying defence-related proteins in rice challenged with the fungal pathogen <i>Rhizoctonia solani</i> . <i>Molecular Plant Pathology</i> , 2006, 7, 405-416.	4.2	93
11	The extrinsic proteins of photosystem II: update. <i>Planta</i> , 2016, 243, 889-908.	3.2	93
12	Interaction of CPa-1 with the manganese-stabilizing protein of photosystem II: identification of 5616-5620.	2.5	90
13	The PsbQ Protein Is Required in <i>Arabidopsis</i> for Photosystem II Assembly/Stability and Photoautotrophy under Low Light Conditions. <i>Journal of Biological Chemistry</i> , 2006, 281, 26260-26267.	3.4	88
14	The structure and function of the 33 kDa extrinsic protein of Photosystem II: A critical assessment. <i>Photosynthesis Research</i> , 1998, 56, 157-173.	2.9	86
15	Auxiliary functions of the PsbO, PsbP and PsbQ proteins of higher plant Photosystem II: A critical analysis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 165-178.	3.8	74
16	High Yield Non-detergent Isolation of Photosystem I-Light-harvesting Chlorophyll II Membranes from Spinach Thylakoids. <i>Journal of Biological Chemistry</i> , 2015, 290, 18429-18437.	3.4	67
17	Characterization of a spinach photosystem II core preparation isolated by a simplified method. <i>Archives of Biochemistry and Biophysics</i> , 1985, 237, 170-176.	3.0	63
18	The PsbP protein, but not the PsbQ protein, is required for normal thylakoid architecture in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2009, 583, 2142-2147.	2.8	62

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19	MSH1 Is a Plant Organellar DNA Binding and Thylakoid Protein under Precise Spatial Regulation to Alter Development. <i>Molecular Plant</i> , 2016, 9, 245-260.	8.3	62
20	Use of a monoclonal antibody in structural investigations of the 49-kDa polypeptide of photosystem II. <i>Archives of Biochemistry and Biophysics</i> , 1987, 256, 295-301.	3.0	55
21	Site-directed mutagenesis of the CPa-1 protein of photosystem II: Alteration of the basic residue pair 384,385R to 384,385G leads to a defect associated with the oxygen-evolving complex. <i>Biochemistry</i> , 1992, 31, 11482-11488.	2.5	54
22	Interaction of the 33 kDa Extrinsic Protein with Photosystem II: Rebinding of the 33 kDa Extrinsic Protein to Photosystem II Membranes Which Contain Four, Two, or Zero Manganese per Photosystem II Reaction Center. <i>Biochemistry</i> , 1996, 35, 4551-4557.	2.5	51
23	Interaction of CPa-1 with the manganese-stabilizing protein of photosystem II: identification of domains on CPa-1 which are shielded from N-hydroxysuccinimide biotinylation by the manganese-stabilizing protein. <i>Biochemistry</i> , 1992, 31, 11059-11064.	2.5	49
24	Site-Directed Mutagenesis of the CP 47 Protein of Photosystem II: Alteration of Conserved Charged Residues in the Domain 364E-444R. <i>Biochemistry</i> , 1996, 35, 4046-4053.	2.5	49
25	Identification of Oxidized Amino Acid Residues in the Vicinity of the Mn <sub>4</sub> CaO <sub>5</sub> Cluster of Photosystem II: Implications for the Identification of Oxygen Channels within the Photosystem. <i>Biochemistry</i> , 2012, 51, 6371-6377.	2.5	49
26	Multiple LHCII antennae can transfer energy efficiently to a single Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 371-378.	1.0	49
27	Secondary structure of the 33 kDa, extrinsic protein of photosystem II: a far-UV circular dichroism study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1188, 427-431.	1.0	48
28	Site-Directed Mutagenesis of Basic Arginine Residues 305 and 342 in the CP 43 Protein of Photosystem II Affects Oxygen-Evolving Activity in <i>Synechocystis</i> 6803. <i>Biochemistry</i> , 1999, 38, 1582-1588.	2.5	45
29	The azido[14 C]atrazine photoaffinity technique labels a 34-kDa protein in <i>Scenedesmus</i> which functions on the oxidizing side of photosystem II. <i>FEBS Letters</i> , 1985, 185, 191-196.	2.8	44
30	Site-Directed Mutagenesis of Glutamate Residues in the Large Extrinsic Loop of the Photosystem II Protein CP 43 Affects Oxygen-Evolving Activity and PS II Assembly. <i>Biochemistry</i> , 1999, 38, 15994-16000.	2.5	42
31	Site-Directed Mutagenesis of the CP47 Protein of Photosystem II: Alteration of the Basic Residue 448R to 448G Prevents the Assembly of Functional Photosystem II Centers under Chloride-Limiting Conditions. <i>Biochemistry</i> , 1994, 33, 10770-10776.	2.5	41
32	Interaction of the 33-kDa extrinsic protein with photosystem II: Identification of domains on the 33-kDa protein that are shielded from NHS-biotinylation by photosystem II. <i>Biochemistry</i> , 1995, 34, 7492-7497.	2.5	40
33	The PsbP family of proteins. <i>Photosynthesis Research</i> , 2013, 116, 235-250.	2.9	40
34	Documentation of Significant Electron Transport Defects on the Reducing Side of Photosystem II upon Removal of the PsbP and PsbQ Extrinsic Proteins. <i>Biochemistry</i> , 2010, 49, 36-41.	2.5	39
35	Hydrodynamic Studies on the Manganese-Stabilizing Protein of Photosystem II. <i>Biochemistry</i> , 1998, 37, 13553-13558.	2.5	36
36	The Extrinsic Proteins of Photosystem II. , 2005, , 95-120.		35

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37	Triton X-114 phase-fractionation of maize thylakoid membranes in the investigation of thylakoid protein topology. <i>FEBS Letters</i> , 1982, 149, 197-202.	2.8	34
38	Developmental Defects in Mutants of the PsbP Domain Protein 5 in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2011, 6, e28624.	2.5	33
39	The Malic Enzyme Is Required for Optimal Photoautotrophic Growth of <i>Synechocystis</i> sp. Strain PCC 6803 under Continuous Light but Not under a Diurnal Light Regimen. <i>Journal of Bacteriology</i> , 2004, 186, 8144-8148.	2.2	32
40	Characterization and complementation of a psbR mutant in <i>Arabidopsis thaliana</i> . <i>Archives of Biochemistry and Biophysics</i> , 2009, 489, 34-40.	3.0	32
41	Carboxylate Groups on the Manganese-Stabilizing Protein Are Required for Its Efficient Binding to Photosystem II. <i>Biochemistry</i> , 1999, 38, 14271-14278.	2.5	31
42	Effects of chloride on paramagnetic coupling of manganese in calcium chloride-washed photosystem II preparations. <i>FEBS Letters</i> , 1986, 202, 235-239.	2.8	30
43	Use of protein cross-linking and radiolytic footprinting to elucidate PsbP and PsbQ interactions within higher plant Photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16178-16183.	7.1	30
44	Triton X-114 phase fractionation of membrane proteins of the cyanobacterium <i>Anacystis nidulans</i> R2. <i>Archives of Biochemistry and Biophysics</i> , 1984, 235, 204-211.	3.0	29
45	Epitope mapping of the monoclonal antibody FAC2 on the apoprotein of CPa-1 in photosystem II. <i>FEBS Letters</i> , 1989, 257, 279-282.	2.8	29
46	Functional Analysis of Photosystem II in a PsbO-1-Deficient Mutant in <i>Arabidopsis thaliana</i> . <i>Biochemistry</i> , 2007, 46, 7607-7613.	2.5	28
47	Radiolytic Mapping of Solvent-Contact Surfaces in Photosystem II of Higher Plants. <i>Journal of Biological Chemistry</i> , 2013, 288, 23565-23572.	3.4	26
48	Oxidized Amino Acid Residues in the Vicinity of QA and PheoD1 of the Photosystem II Reaction Center: Putative Generation Sites of Reducing-Side Reactive Oxygen Species. <i>PLoS ONE</i> , 2013, 8, e58042.	2.5	26
49	Regulation of photosynthetic cyclic electron flow pathways by adenylate status in higher plant chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 148081.	1.0	26
50	Tocopherol controls D1 amino acid oxidation by oxygen radicals in Photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
51	The effects of simultaneous RNAi suppression of PsbO and PsbP protein expression in photosystem II of <i>Arabidopsis</i> . <i>Photosynthesis Research</i> , 2008, 98, 439-448.	2.9	24
52	The psbO1 Mutant of <i>Arabidopsis</i> Cannot Efficiently Use Calcium in Support of Oxygen Evolution by Photosystem II. <i>Journal of Biological Chemistry</i> , 2008, 283, 29022-29027.	3.4	24
53	Four Novel Genes Required for Optimal Photoautotrophic Growth of the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803 Identified by In Vitro Transposon Mutagenesis. <i>Journal of Bacteriology</i> , 2004, 186, 875-879.	2.2	23
54	Site-directed mutagenesis of the basic residues 321K to 321G in the CP 47 protein of photosystem II alters the chloride requirement for growth and oxygen-evolving activity in <i>Synechocystis</i> 6803. , 1997, 34, 455-463.		22

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55	Carboxylate Groups on the Manganese-Stabilizing Protein Are Required for Efficient Binding of the 24 kDa Extrinsic Protein to Photosystem II. <i>Biochemistry</i> , 2003, 42, 2056-2061.	2.5	22
56	Association of the 17-kDa Extrinsic Protein with Photosystem II in Higher Plants. <i>Biochemistry</i> , 2005, 44, 15216-15221.	2.5	20
57	The PsbP Domain Protein 1 Functions in the Assembly of Lumenal Domains in Photosystem I. <i>Journal of Biological Chemistry</i> , 2014, 289, 23776-23785.	3.4	20
58	Introduction to Oxygen Evolution and the Oxygen-Evolving Complex. , 1996, , 113-136.		20
59	Recent advances in the use of mass spectrometry to examine structure/function relationships in photosystem II. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 152, 227-246.	3.8	19
60	Introduction of the 305Arg→305Ser mutation in the large extrinsic loop E of the CP43 protein of <i>Synechocystis</i> sp. PCC 6803 leads to the loss of cytochrome c550 binding to Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 92-96.	1.0	15
61	Alterations of the Oxygen-Evolving Apparatus Induced by a305Arg →305Ser Mutation in the CP43 Protein of Photosystem II from <i>Synechocystis</i> sp. PCC 6803 under Chloride-Limiting Conditions. <i>Biochemistry</i> , 2002, 41, 15747-15753.	2.5	14
62	Alterations of the Oxygen-Evolving Apparatus in a448Arg →448S Mutant in the CP47 Protein of Photosystem II under Normal and Low Chloride Conditions. <i>Biochemistry</i> , 2001, 40, 11483-11489.	2.5	13
63	Site-directed mutagenesis of the CP 47 protein of photosystem II: alteration of conserved charged residues which lie within lethal deletions of the large extrinsic loop E. <i>Plant Molecular Biology</i> , 1996, 32, 1191-1195.	3.9	12
64	Isolation of lumenal proteins from spinach thylakoid membranes by Triton X-114 phase partitioning. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1503, 350-356.	1.0	12
65	Site-directed mutagenesis of the CP 47 protein of photosystem II: 167W in the lumenally exposed loop C is required for photosystem II assembly and stability. <i>Plant Molecular Biology</i> , 1996, 32, 537-542.	3.9	11
66	Natively oxidized amino acid residues in the spinach cytochrome b 6 f complex. <i>Photosynthesis Research</i> , 2018, 137, 141-151.	2.9	11
67	Natively oxidized amino acid residues in the spinach PS I-LHC I supercomplex. <i>Photosynthesis Research</i> , 2020, 143, 263-273.	2.9	11
68	Kinetic characterization of His-tagged CP47 Photosystem II in <i>Synechocystis</i> sp. PCC6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1460, 384-389.	1.0	10
69	Functional complementation of the <i>Arabidopsis thaliana</i> psbO1 mutant phenotype with an N-terminally His6-tagged PsbO-1 protein in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1029-1038.	1.0	9
70	Integration of Apo-±-Phycocyanin into Phycobilisomes and Its Association with FNRL in the Absence of the Phycocyanin ±-Subunit Lyase (CpcF) in <i>Synechocystis</i> sp. PCC 6803. <i>PLoS ONE</i> , 2014, 9, e105952.	2.5	9
71	Random mutagenesis in the large extrinsic loop E and transmembrane alpha-helix VI of the CP 47 protein of Photosystem II. <i>Plant Molecular Biology</i> , 1999, 39, 381-386.	3.9	8
72	elFiso4G Augments the Synthesis of Specific Plant Proteins Involved in Normal Chloroplast Function. <i>Plant Physiology</i> , 2019, 181, 85-96.	4.8	8

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73	The Sll0606 Protein Is Required for Photosystem II Assembly/Stability in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2010, 285, 32047-32054.	3.4	7
74	A time-resolved vibrational spectroscopy glimpse into the oxygen-evolving complex of photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7205-7206.	7.1	5
75	N-Terminal Lipid Modification Is Required for the Stable Accumulation of CyanoQ in <i>Synechocystis</i> sp. PCC 6803. <i>PLoS ONE</i> , 2016, 11, e0163646.	2.5	5
76	Identification of Two Genes, <i>sll0804</i> and <i>slr1306</i> , as Putative Components of the CO <sub>2</sub> -Concentrating Mechanism in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803. <i>Journal of Bacteriology</i> , 2008, 190, 8234-8237.	2.2	4
77	Photoheterotrophic growth of <i>Physcomitrella patens</i> . <i>Planta</i> , 2014, 239, 605-613.	3.2	4
78	Oxidative modification of LHC II associated with photosystem II and PS I-LHC II membranes. <i>Photosynthesis Research</i> , 2022, 152, 261-274.	2.9	4
79	Use of Protein Cross-Linking and Radiolytic Labeling To Elucidate the Structure of PsbO within Higher-Plant Photosystem II. <i>Biochemistry</i> , 2016, 55, 3204-3213.	2.5	3
80	[22] Directed mutagenesis in photosystem II: Analysis of the CP 47 protein. <i>Methods in Enzymology</i> , 1998, 297, 320-337.	1.0	1