Steven G Ball

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 11,026 46 105 h-index g-index citations papers 8.9 5.46 110 12,241 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
106	Acute Illness and Death in Children With Adrenal Insufficiency. Frontiers in Endocrinology, 2021, 12, 757	5 <u>6</u> 6	O
105	Retracing Storage Polysaccharide Evolution in Stramenopila. Frontiers in Plant Science, 2021, 12, 629045	6.2	1
104	Conservation of the glycogen metabolism pathway underlines a pivotal function of storage polysaccharides in Chlamydiae. <i>Communications Biology</i> , 2021 , 4, 296	6.7	2
103	Single stage hand assisted laparoscopic and trans thoracic excision of multifocal paraaortic and cardiac paragangliomas. <i>Journal of Surgical Case Reports</i> , 2019 , 2019, rjz169	0.6	
102	Analysis of an improved Cyanophora paradoxa genome assembly. <i>DNA Research</i> , 2019 , 26, 287-299	4.5	18
101	Reconstruction of the sialylation pathway in the ancestor of eukaryotes. <i>Scientific Reports</i> , 2018 , 8, 2940	64.9	11
100	Crystal Structures of the atalytic omain of Starch Synthase IV, of Granule Bound Starch Synthase From CLg1 and of Granule Bound Starch Synthase I of Illustrate Substrate Recognition in Starch Synthases. <i>Frontiers in Plant Science</i> , 2018 , 9, 1138	6.2	7
99	Control of Starch Biosynthesis in Vascular Plants and Algae 2018 , 258-289		
98	Host-pathogen biotic interactions shaped vitamin K metabolism in Archaeplastida. <i>Scientific Reports</i> , 2018 , 8, 15243	4.9	9
97	Biotic Host-Pathogen Interactions As Major Drivers of Plastid Endosymbiosis. <i>Trends in Plant Science</i> , 2017 , 22, 316-328	13.1	28
96	Bound Substrate in the Structure of Cyanobacterial Branching Enzyme Supports a New Mechanistic Model. <i>Journal of Biological Chemistry</i> , 2017 , 292, 5465-5475	5.4	26
95	Biotic interactions as drivers of algal origin and evolution. <i>New Phytologist</i> , 2017 , 216, 670-681	9.8	18
94	Extreme genome diversity in the hyper-prevalent parasitic eukaryote Blastocystis. <i>PLoS Biology</i> , 2017 , 15, e2003769	9.7	58
93	Gasping for air. <i>ELife</i> , 2017 , 6,	8.9	2
92	Characterization of Function of the GlgA2 Glycogen/Starch Synthase in Cyanobacterium sp. Clg1 Highlights Convergent Evolution of Glycogen Metabolism into Starch Granule Aggregation. <i>Plant Physiology</i> , 2016 , 171, 1879-92	6.6	9
91	EVOLUTION. Pathogen to powerhouse. <i>Science</i> , 2016 , 351, 659-60	33.3	28
90	Sequestration of host metabolism by an intracellular pathogen. <i>ELife</i> , 2016 , 5, e12552	8.9	50

(2013-2016)

89	Commentary: Plastid establishment did not require a chlamydial partner. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016 , 6, 43	5.9	9
88	Was the Chlamydial Adaptative Strategy to Tryptophan Starvation an Early Determinant of Plastid Endosymbiosis?. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016 , 6, 67	5.9	10
87	Comparison of Chain-Length Preferences and Glucan Specificities of Isoamylase-Type EGlucan Debranching Enzymes from Rice, Cyanobacteria, and Bacteria. <i>PLoS ONE</i> , 2016 , 11, e0157020	3.7	9
86	Infection and the first eukaryotesResponse. <i>Science</i> , 2016 , 352, 1065-6	33.3	4
85	The Transition from Glycogen to Starch Metabolism in Cyanobacteria and Eukaryotes 2015 , 93-158		12
84	Toward an understanding of the function of Chlamydiales in plastid endosymbiosis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 495-504	4.6	11
83	Blurred pictures from the crime scene: the growing case for a function of Chlamydiales in plastid endosymbiosis. <i>Microbes and Infection</i> , 2015 , 17, 723-6	9.3	3
82	Crystallization and crystallographic analysis of branching enzymes from Cyanothece sp. ATCC 51142. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 1109-13	1.1	13
81	Ba-7 ????????????????????????????????????	0.1	
8o	Ca-1 ?????????([P???))??????(???????,????,??????????????	0.1	
79	Crystal structure of the Chlamydomonas starch debranching enzyme isoamylase ISA1 reveals insights into the mechanism of branch trimming and complex assembly. <i>Journal of Biological Chemistry</i> , 2014 , 289, 22991-23003	5.4	40
78	Molecular evolution accompanying functional divergence of duplicated genes along the plant starch biosynthesis pathway. <i>BMC Evolutionary Biology</i> , 2014 , 14, 103	3	23
77	Diversity of reaction characteristics of glucan branching enzymes and the fine structure of Eglucan from various sources. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 562, 9-21	4.1	44
76	Transition from glycogen to starch metabolism in Archaeplastida. <i>Trends in Plant Science</i> , 2014 , 19, 18-	2813.1	45
75	Evolution of Storage Polysaccharide Metabolism in Archaeplastida Opens an Unexpected Window on the Molecular Mechanisms That Drove Plastid Endosymbiosis 2014 , 111-134		3
74	Genome structure and metabolic features in the red seaweed Chondrus crispus shed light on evolution of the Archaeplastida. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5247-52	11.5	239
73	Physicochemical variation of cyanobacterial starch, the insoluble EGlucans in cyanobacteria. <i>Plant and Cell Physiology</i> , 2013 , 54, 465-73	4.9	22
72	Genome of the red alga Porphyridium purpureum. <i>Nature Communications</i> , 2013 , 4, 1941	17.4	165

71	Chlamydia, cyanobiont, or host: who was on top in the mflage 🛭 trois?. <i>Trends in Plant Science</i> , 2013 , 18, 673-9	13.1	31
70	Metabolic effectors secreted by bacterial pathogens: essential facilitators of plastid endosymbiosis?. <i>Plant Cell</i> , 2013 , 25, 7-21	11.6	84
69	Convergent evolution of polysaccharide debranching defines a common mechanism for starch accumulation in cyanobacteria and plants. <i>Plant Cell</i> , 2013 , 25, 3961-75	11.6	18
68	A forward genetic approach in Chlamydomonas reinhardtii as a strategy for exploring starch catabolism. <i>PLoS ONE</i> , 2013 , 8, e74763	3.7	22
67	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. <i>Nature</i> , 2012 , 492, 59-65	50.4	304
66	Cyanophora paradoxa genome elucidates origin of photosynthesis in algae and plants. <i>Science</i> , 2012 , 335, 843-7	33.3	304
65	Eukaryote to gut bacteria transfer of a glycoside hydrolase gene essential for starch breakdown in plants. <i>Mobile Genetic Elements</i> , 2012 , 2, 81-87		12
64	Effects of granule-bound starch synthase I-defective mutation on the morphology and structure of pyrenoidal starch in Chlamydomonas. <i>Plant Science</i> , 2011 , 180, 238-45	5.3	17
63	Microarray data can predict diurnal changes of starch content in the picoalga Ostreococcus. <i>BMC Systems Biology</i> , 2011 , 5, 36	3.5	33
62	The evolution of glycogen and starch metabolism in eukaryotes gives molecular clues to understand the establishment of plastid endosymbiosis. <i>Journal of Experimental Botany</i> , 2011 , 62, 1775	5-801	182
61	Engineering the chloroplast targeted malarial vaccine antigens in Chlamydomonas starch granules. <i>PLoS ONE</i> , 2010 , 5, e15424	3.7	63
60	Phylogenetic and biochemical evidence supports the recruitment of an ADP-glucose translocator for the export of photosynthate during plastid endosymbiosis. <i>Molecular Biology and Evolution</i> , 2010 , 27, 2691-701	8.3	39
59	Functions of heteromeric and homomeric isoamylase-type starch-debranching enzymes in developing maize endosperm. <i>Plant Physiology</i> , 2010 , 153, 956-69	6.6	71
58	Relationships between PSII-independent hydrogen bioproduction and starch metabolism as evidenced from isolation of starch catabolism mutants in the green alga Chlamydomonas reinhardtii. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10731-10740	6.7	35
57	Chlamydomonas starchless mutant defective in ADP-glucose pyrophosphorylase hyper-accumulates triacylglycerol. <i>Metabolic Engineering</i> , 2010 , 12, 387-91	9.7	294
56	Genetic dissection of floridean starch synthesis in the cytosol of the model dinoflagellate Crypthecodinium cohnii. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21126-30	11.5	34
55	Hydrogen production in Chlamydomonas: photosystem II-dependent and -independent pathways differ in their requirement for starch metabolism. <i>Plant Physiology</i> , 2009 , 151, 631-40	6.6	134
54	Starch Metabolism 2009 , 1-40		11

53	Green factories: The shaping and use of metabolic pathways in algae. <i>Biochemist</i> , 2009 , 31, 20-23	0.5	
52	Llamidon: sa´synth⊠e, sa´mobilisation, son´histoire ☑olutive. <i>Cahiers Agricultures</i> , 2009 , 18, 315-322	0.9	2
51	The relocation of starch metabolism to chloroplasts: when, why and how. <i>Trends in Plant Science</i> , 2008 , 13, 574-82	13.1	78
50	Further evidence for the mandatory nature of polysaccharide debranching for the aggregation of semicrystalline starch and for overlapping functions of debranching enzymes in Arabidopsis leaves. <i>Plant Physiology</i> , 2008 , 148, 1309-23	6.6	68
49	Early gene duplication within chloroplastida and its correspondence with relocation of starch metabolism to chloroplasts. <i>Genetics</i> , 2008 , 178, 2373-87	4	66
48	Metabolic Symbiosis and the Birth of the Plant Kingdom. <i>Molecular Biology and Evolution</i> , 2008 , 25, 795-	7895	2
47	Pathway of cytosolic starch synthesis in the model glaucophyte Cyanophora paradoxa. <i>Eukaryotic Cell</i> , 2008 , 7, 247-57		43
46	Metabolic symbiosis and the birth of the plant kingdom. <i>Molecular Biology and Evolution</i> , 2008 , 25, 536-4	18 .3	132
45	Variation in storage alpha-glucans of the Porphyridiales (Rhodophyta). <i>Plant and Cell Physiology</i> , 2008 , 49, 103-16	4.9	46
44	The heterotrophic dinoflagellate Crypthecodinium cohnii defines a model genetic system to investigate cytoplasmic starch synthesis. <i>Eukaryotic Cell</i> , 2008 , 7, 872-80		31
43	The phenotype of soluble starch synthase IV defective mutants of Arabidopsis thaliana suggests a novel function of elongation enzymes in the control of starch granule formation. <i>Plant Journal</i> , 2007 , 49, 492-504	6.9	205
42	The Chlamydomonas genome reveals the evolution of key animal and plant functions. <i>Science</i> , 2007 , 318, 245-50	33.3	1969
41	Circadian clock regulation of starch metabolism establishes GBSSI as a major contributor to amylopectin synthesis in Chlamydomonas reinhardtii. <i>Plant Physiology</i> , 2006 , 142, 305-17	6.6	94
40	Molecular and biochemical analysis of periplastidial starch metabolism in the cryptophyte Guillardia theta. <i>Eukaryotic Cell</i> , 2006 , 5, 964-71		14
39	Glycogen phosphorylase, the product of the glgP Gene, catalyzes glycogen breakdown by removing	3.5	77
	glucose units from the nonreducing ends in Escherichia coli. <i>Journal of Bacteriology</i> , 2006 , 188, 5266-72		
38	Mutants of Arabidonsis lacking starch branching enzyme II substitute plastidial starch synthesis by		86
38 37	Mutants of Arabidopsis lacking starch branching enzyme II substitute plastidial starch synthesis by	11.6	

35	Nature of the periplastidial pathway of starch synthesis in the cryptophyte Guillardia theta. <i>Eukaryotic Cell</i> , 2006 , 5, 954-63		49
34	Evolution of plant-like crystalline storage polysaccharide in the protozoan parasite Toxoplasma gondii argues for a red alga ancestry. <i>Journal of Molecular Evolution</i> , 2005 , 60, 257-67	3.1	106
33	Amylopectin biogenesis and characterization in the protozoan parasite Toxoplasma gondii, the intracellular development of which is restricted in the HepG2 cell line. <i>Microbes and Infection</i> , 2005 , 7, 41-8	9.3	45
32	Soluble starch synthase I: a major determinant for the synthesis of amylopectin in Arabidopsis thaliana leaves. <i>Plant Journal</i> , 2005 , 43, 398-412	6.9	146
31	Eukaryotic microalgae genomics. The essence of being a plant. <i>Plant Physiology</i> , 2005 , 137, 397-8	6.6	8
30	Role of the Escherichia coli glgX gene in glycogen metabolism. <i>Journal of Bacteriology</i> , 2005 , 187, 1465-	-7335	96
29	Mutants of Arabidopsis lacking a chloroplastic isoamylase accumulate phytoglycogen and an abnormal form of amylopectin. <i>Plant Physiology</i> , 2005 , 138, 184-95	6.6	145
28	Starch division and partitioning. A mechanism for granule propagation and maintenance in the picophytoplanktonic green alga Ostreococcus tauri. <i>Plant Physiology</i> , 2004 , 136, 3333-40	6.6	65
27	Planning Needs Specific Credentials. <i>Journal of the American Planning Association</i> , 2004 , 70, 97-97	2.9	
26	STA11, a Chlamydomonas reinhardtii locus required for normal starch granule biogenesis, encodes disproportionating enzyme. Further evidence for a function of alpha-1,4 glucanotransferases during starch granule biosynthesis in green algae. <i>Plant Physiology</i> , 2003 , 132, 137-45	6.6	35
25	From bacterial glycogen to starch: understanding the biogenesis of the plant starch granule. <i>Annual Review of Plant Biology</i> , 2003 , 54, 207-33	30.7	540
24	The endopolysaccharide metabolism of the hyperthermophilic archeon Thermococcus hydrothermalis: polymer structure and biosynthesis. <i>Current Microbiology</i> , 2002 , 44, 206-11	2.4	16
23	Granule-bound starch synthase I. A major enzyme involved in the biogenesis of B-crystallites in starch granules. <i>FEBS Journal</i> , 2002 , 269, 3810-20		46
22	When Simpler Is Better. Unicellular Green Algae for Discovering New Genes and Functions in Carbohydrate Metabolism. <i>Plant Physiology</i> , 2001 , 127, 1334-1338	6.6	42
21	Two loci control phytoglycogen production in the monocellular green alga Chlamydomonas reinhardtii. <i>Plant Physiology</i> , 2001 , 125, 1710-22	6.6	42
20	Starchless mutants of Chlamydomonas reinhardtii lack the small subunit of a heterotetrameric ADP-glucose pyrophosphorylase. <i>Journal of Bacteriology</i> , 2001 , 183, 1069-77	3.5	144
19	Biochemical characterization of wild-type and mutant isoamylases of Chlamydomonas reinhardtii supports a function of the multimeric enzyme organization in amylopectin maturation. <i>Plant Physiology</i> , 2001 , 125, 1723-31	6.6	52
18	Recent progress toward understanding biosynthesis of the amylopectin crystal. <i>Plant Physiology</i> , 2000 , 122, 989-97	6.6	411

LIST OF PUBLICATIONS

17	The debranching enzyme complex missing in glycogen accumulating mutants of Chlamydomonas reinhardtii displays an isoamylase-type specificity. <i>Plant Science</i> , 2000 , 157, 145-156	5.3	26
16	Genetic and biochemical evidence for the involvement of alpha-1,4 glucanotransferases in amylopectin synthesis. <i>Plant Physiology</i> , 1999 , 120, 993-1004	6.6	84
15	Novel, starch-like polysaccharides are synthesized by an unbound form of granule-bound starch synthase in glycogen-accumulating mutants of Chlamydomonas reinhardtii. <i>Plant Physiology</i> , 1999 , 119, 321-30	6.6	66
14	Biochemical characterization of the chlamydomonas reinhardtii alpha-1,4 glucanotransferase supports a direct function in amylopectin biosynthesis. <i>Plant Physiology</i> , 1999 , 120, 1005-14	6.6	69
13	Starch granules: structure and biosynthesis. <i>International Journal of Biological Macromolecules</i> , 1998 , 23, 85-112	7.9	1400
12	Progress in understanding the biosynthesis of amylose. <i>Trends in Plant Science</i> , 1998 , 3, 462-467	13.1	164
11	Regulation of Starch Biosynthesis 1998 , 549-567		2
10	Amylose is synthesized in vitro by extension of and cleavage from amylopectin. <i>Journal of Biological Chemistry</i> , 1998 , 273, 22232-40	5.4	102
9	Preamylopectin Processing: A Mandatory Step for Starch Biosynthesis in Plants. <i>Plant Cell</i> , 1996 , 8, 135	311.6	73
8	From glycogen to amylopectin: a model for the biogenesis of the plant starch granule. <i>Cell</i> , 1996 , 86, 349-52	56.2	393
7	Control of starch composition and structure through substrate supply in the monocellular alga Chlamydomonas reinhardtii. <i>Journal of Biological Chemistry</i> , 1996 , 271, 16281-7	5.4	79
6	Storage, Photosynthesis, and Growth: The Conditional Nature of Mutations Affecting Starch Synthesis and Structure in Chlamydomonas. <i>Plant Cell</i> , 1995 , 7, 1117	11.6	28
5	Recent Views on the Biosynthesis of the Plant Starch Granule <i>Trends in Glycoscience and Glycotechnology</i> , 1995 , 7, 405-415	0.1	9
4	A Chlamydomonas reinhardtii low-starch mutant is defective for 3-phosphoglycerate activation and orthophosphate inhibition of ADP-glucose pyrophosphorylase. <i>Planta</i> , 1991 , 185, 17-26	4.7	92
3	Physiology of starch storage in the monocellular alga Chlamydomonas reinhardtii. <i>Plant Science</i> , 1990 , 66, 1-9	5.3	136
2	Molecular cloning and characterization of ARO7-OSM2, a single yeast gene necessary for chorismate mutase activity and growth in hypertonic medium. <i>Molecular Genetics and Genomics</i> , 1986 , 205, 326-30		30
1	Control of Starch Biosynthesis in Vascular Plants and Algae258-289		2