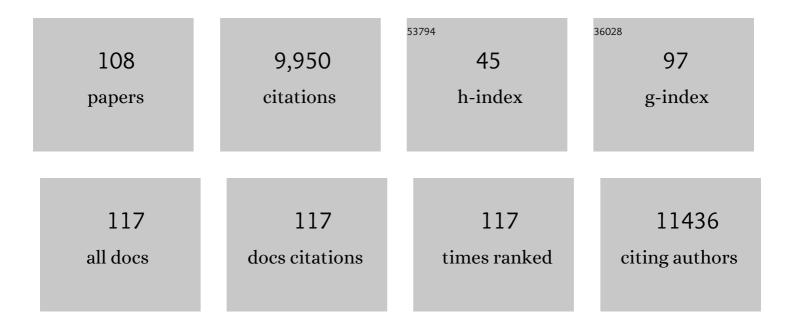
Richard Sayre

List of Publications by Year in descending order

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RICHARD SAVE

#	Article	IF	CITATIONS
1	Assessing <i>Aedes aegypti</i> candidate genes during viral infection and <i>Wolbachia</i> â€mediated pathogen blocking. Insect Molecular Biology, 2022, 31, 356-368.	2.0	7
2	Biofortification of Cassava: Recent Progress and Challenges Facing the Future. , 2022, , 417-438.		1
3	Cyanogenesis in cassava and its molecular manipulation for crop improvement. Journal of Experimental Botany, 2022, 73, 1853-1867.	4.8	7
4	Formation of light-harvesting complex II aggregates from LHCII–PSI–LHCI complexes in rice plants under high light. Journal of Experimental Botany, 2021, 72, 4938-4948.	4.8	5
5	Identification of the Optimal Light Harvesting Antenna Size for High-Light Stress Mitigation in Plants. Frontiers in Plant Science, 2020, 11, 505.	3.6	24
6	Light regulation of lightâ€harvesting antenna size substantially enhances photosynthetic efficiency and biomass yield in green algae ^{â€} . Plant Journal, 2020, 103, 584-603.	5.7	68
7	Fine-tuning the photosynthetic light harvesting apparatus for improved photosynthetic efficiency and biomass yield. Scientific Reports, 2019, 9, 13028.	3.3	53
8	Induction of RNA interference to block Zika virus replication and transmission in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2019, 111, 103169.	2.7	19
9	Production of Entanglement Entropy by Decoherence. Open Systems and Information Dynamics, 2018, 25, 1850001.	1.2	3
10	Provitamin A biofortification of cassava enhances shelf life but reduces dry matter content of storage roots due to altered carbon partitioning into starch. Plant Biotechnology Journal, 2018, 16, 1186-1200.	8.3	49
11	Genome sequence and comparative analyses of atoxigenic <i>Aspergillus flavus</i> WRRL 1519. Mycologia, 2018, 110, 482-493.	1.9	10
12	Biosensors for the Detection and Quantification of Al-2 Class Quorum-Sensing Compounds. Methods in Molecular Biology, 2018, 1673, 73-88.	0.9	5
13	Review of the harvesting and extraction program within the National Alliance for Advanced Biofuels and Bioproducts. Algal Research, 2018, 33, 470-485.	4.6	50
14	Review of the algal biology program within the National Alliance for Advanced Biofuels and Bioproducts. Algal Research, 2017, 22, 187-215.	4.6	69
15	Possible role of interference, protein noise, and sink effects in nonphotochemical quenching in photosynthetic complexes. Journal of Mathematical Biology, 2017, 74, 43-76.	1.9	1
16	Review of the cultivation program within the National Alliance for Advanced Biofuels and Bioproducts. Algal Research, 2017, 22, 166-186.	4.6	72
17	Cyanogen Metabolism in Cassava Roots: Impact on Protein Synthesis and Root Development. Frontiers in Plant Science, 2017, 8, 220.	3.6	29
18	On improving the performance of nonphotochemical quenching in CP29 light-harvesting antenna complex. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1279-1283.	2.1	2

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19	Dynamics of a chlorophyll dimer in collective and local thermal environments. Journal of Mathematical Chemistry, 2016, 54, 866-917.	1.5	15
20	Impact of nitrogen limitation on biomass, photosynthesis, and lipid accumulation in Chlorella sorokiniana. Journal of Applied Phycology, 2016, 28, 803-812.	2.8	100
21	Molecular Tools for Bioengineering Eukaryotic Microalgae. Current Biotechnology, 2016, 5, 93-108.	0.4	9
22	Strategies for Optimizing Algal Biology for Enhanced Biomass Production. Frontiers in Energy Research, 2015, 3, .	2.3	38
23	Superradiance Transition and Nonphotochemical Quenching in Photosynthetic Complexes. Journal of Physical Chemistry C, 2015, 119, 22289-22296.	3.1	11
24	Noninvasive Evaluation of Heavy Metal Uptake and Storage in Micoralgae Using a Fluorescence Resonance Energy Transfer-Based Heavy Metal Biosensor. Plant Physiology, 2014, 164, 1059-1067.	4.8	14
25	Quantum Biological Switch Based on Superradiance Transitions. Journal of Physical Chemistry C, 2014, 118, 20-26.	3.1	28
26	Electron transfer reactions: generalized spin-boson approach. Journal of Mathematical Chemistry, 2013, 51, 890-913.	1.5	20
27	Noise-assisted quantum electron transfer in photosynthetic complexes. Journal of Mathematical Chemistry, 2013, 51, 2514-2541.	1.5	10
28	Initial risk assessment of genetically modified (GM) microalgae for commodity-scale biofuel cultivation. Algal Research, 2013, 2, 66-77.	4.6	105
29	Comparative energetics and kinetics of autotrophic lipid and starch metabolism in chlorophytic microalgae: implications for biomass and biofuel production. Biotechnology for Biofuels, 2013, 6, 150.	6.2	110
30	Evaluating nuclear transgene expression systems in Chlamydomonas reinhardtii. Algal Research, 2013, 2, 321-332.	4.6	52
31	Iron biofortification and homeostasis in transgenic cassava roots expressing the algal iron assimilatory gene, FEA1. Frontiers in Plant Science, 2012, 3, 171.	3.6	26
32	Extending Cassava Root Shelf Life via Reduction of Reactive Oxygen Species Production Â. Plant Physiology, 2012, 159, 1396-1407.	4.8	132
33	Retention during Processing and Bioaccessibility of β-Carotene in High β-Carotene Transgenic Cassava Root. Journal of Agricultural and Food Chemistry, 2012, 60, 3861-3866.	5.2	57
34	Site Energies of Active and Inactive Pheophytins in the Reaction Center of Photosystem II from Chlamydomonas reinhardtii. Journal of Physical Chemistry B, 2012, 116, 3890-3899.	2.6	24
35	Optimization of photosynthetic light energy utilization by microalgae. Algal Research, 2012, 1, 134-142.	4.6	199
36	Iron and protein biofortification of cassava: lessons learned. Current Opinion in Biotechnology, 2012, 23, 257-264.	6.6	23

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37	FRET-Based Biosensors for the Detection and Quantification of Al-2 Class of Quorum Sensing Compounds. Methods in Molecular Biology, 2011, 692, 31-46.	0.9	3
38	Modulating the Redox Potential of the Stable Electron Acceptor, Q _B , in Mutagenized Photosystem II Reaction Centers. Biochemistry, 2011, 50, 1454-1464.	2.5	9
39	A sensitive fluorescence reporter for monitoring quorum sensing regulated protease production in Vibrio harveyi. Journal of Microbiological Methods, 2011, 84, 189-193.	1.6	5
40	The Iron Assimilatory Protein, FEA1, from Chlamydomonas reinhardtii Facilitates Iron-Specific Metal Uptake in Yeast and Plants. Frontiers in Plant Science, 2011, 2, 67.	3.6	29
41	Overexpression of Hydroxynitrile Lyase in Cassava Roots Elevates Protein and Free Amino Acids while Reducing Residual Cyanogen Levels. PLoS ONE, 2011, 6, e21996.	2.5	41
42	<i>N</i> â€ACYL HOMOSERINE LACTONe LACTONASE, AiiA, INACTIVATION OF QUORUMâ€SENSING AGONISTS PRODUCED BY <i>CHLAMYDOMONAS REINHARDTII</i> (CHLOROPHYTA) AND CHARACTERIZATION OF <i>aiiA</i> TRANSGENIC ALGAE ¹ . Journal of Phycology, 2011, 47, 1219-1227.	2.3	23
43	Removal of mercury from sediment by ultrasound combined with biomass (transgenic Chlamydomonas) Tj ETQq1	1,0.7843 8.2	14 rgBT /Ov
44	The BioCassava Plus Program: Biofortification of Cassava for Sub-Saharan Africa. Annual Review of Plant Biology, 2011, 62, 251-272.	18.7	245
45	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	12.6	1,369
46	Microalgae: The Potential for Carbon Capture. BioScience, 2010, 60, 722-727.	4.9	320
47	Photosystem II, a Structural Perspective. , 2009, , 573-602.		7
48	Removing allergens and reducing toxins from food crops. Current Opinion in Biotechnology, 2009, 20, 191-196.	6.6	25
49	Biochemical biomarkers in algae and marine pollution: A review. Ecotoxicology and Environmental Safety, 2008, 71, 1-15.	6.0	446
50	The Vitamin Riboflavin and Its Derivative Lumichrome Activate the LasR Bacterial Quorum-Sensing Receptor. Molecular Plant-Microbe Interactions, 2008, 21, 1184-1192.	2.6	150
51	A LuxP-FRET-Based Reporter for the Detection and Quantification of AI-2 Bacterial Quorum-Sensing Signal Compounds. Biochemistry, 2007, 46, 3990-3997.	2.5	41
52	Microalgal Vaccines. Advances in Experimental Medicine and Biology, 2007, 616, 122-128.	1.6	30
53	Phycoremediation of Heavy Metals Using Transgenic Microalgae. Advances in Experimental Medicine and Biology, 2007, 616, 99-109.	1.6	53
54	Transgenic Approaches for Cyanogen Reduction in Cassava. Journal of AOAC INTERNATIONAL, 2007, 90, 1450-1455.	1.5	24

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55	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. Science, 2007, 318, 245-250.	12.6	2,354
56	Photoproduction of hydrogen by sulfur-deprived C. reinhardtii mutants with impaired Photosystem II photochemical activity. Photosynthesis Research, 2007, 94, 79-89.	2.9	68
57	Transgenic approaches for cyanogen reduction in cassava. Journal of AOAC INTERNATIONAL, 2007, 90, 1450-5.	1.5	4
58	Genetic modification of cassava for enhanced starch production. Plant Biotechnology Journal, 2006, 4, 453-465.	8.3	136
59	Cassava (Manihot esculenta Crantz). , 2006, 344, 13-24.		1
60	Charge Recombination and Thermoluminescence in Photosystem II. Biophysical Journal, 2005, 88, 1948-1958.	0.5	63
61	Engineering the chloroplast encoded proteins of Chlamydomonas. , 2005, , 691-699.		0
62	Chlamydomonas reinhardtii Secretes Compounds That Mimic Bacterial Signals and Interfere with Quorum Sensing Regulation in Bacteria. Plant Physiology, 2004, 134, 137-146.	4.8	213
63	Engineering the Chloroplast Encoded Proteins of Chlamydomonas. Photosynthesis Research, 2004, 80, 411-419.	2.9	13
64	Engineering cyanogen synthesis and turnover in cassava (Manihot esculenta). Plant Molecular Biology, 2004, 56, 661-669.	3.9	119
65	Introduction. Photosynthesis Research, 2004, 82, 201-202.	2.9	1
66	Over-expression of hydroxynitrile lyase in transgenic cassava roots accelerates cyanogenesis and food detoxification. Plant Biotechnology Journal, 2004, 2, 37-43.	8.3	65
67	Substitution of a Chlorophyll into the Inactive Branch Pheophytin-Binding Site Impairs Charge Separation in Photosystem II. Journal of Physical Chemistry B, 2004, 108, 16904-16911.	2.6	25
68	Modification of the pheophytin midpoint potential in photosystem II: Modulation of the quantum yield of charge separation and of charge recombination pathways. Physical Chemistry Chemical Physics, 2004, 6, 4825.	2.8	58
69	Generation of cyanogen-free transgenic cassava. Planta, 2003, 217, 367-373.	3.2	153
70	Functional asymmetry of photosystem II D1 and D2 peripheral chlorophyll mutants ofChlamydomonas reinhardtii. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4091-4096.	7.1	54
71	Molecular Mechanisms of Proline-Mediated Tolerance to Toxic Heavy Metals in Transgenic Microalgae. Plant Cell, 2002, 14, 2837-2847.	6.6	440
72	Cadmium- and iron-stress-inducible gene expression in the green alga Chlamydomonas reinhardtii : evidence for H43 protein function in iron assimilation. Planta, 2002, 215, 1-13.	3.2	76

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73	Binding of aqueous cadmium by the lyophilized biomass of Chlamydomonas reinhardtii. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 210, 1-11.	4.7	46
74	High Field EPR Study of the Pheophytin Anion Radical in Wild Type and D1-E130 Mutants of Photosystem II in Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2001, 276, 22313-22316.	3.4	46
75	Photosystem II Peripheral Accessory Chlorophyll Mutants inChlamydomonas reinhardtii. Biochemical Characterization and Sensitivity to Photo-Inhibition. Plant Physiology, 2001, 127, 633-644.	4.8	23
76	Photosystem II peripheral accessory chlorophyll mutants in Chlamydomonas reinhardtii. Biochemical characterization and sensitivity to photo-inhibition. Plant Physiology, 2001, 127, 633-44.	4.8	9
77	Fluorescence Decay Kinetics of Wild Type and D2-H117N Mutant Photosystem II Reaction Centers Isolated from Chlamydomonas reinhardtii. Journal of Physical Chemistry B, 2000, 104, 4777-4781.	2.6	17
78	Growth and Heavy Metal Binding Properties of Transgenic Chlamydomonas Expressing a Foreign Metallothionein Gene. International Journal of Phytoremediation, 1999, 1, 53-65.	3.1	46
79	Involvement of Histidine 190 on the D1 Protein in Electron/Proton Transfer Reactions on the Donor Side of Photosystem Ilâ€. Biochemistry, 1998, 37, 14245-14256.	2.5	136
80	Cyanogenesis in Cassava1. Plant Physiology, 1998, 116, 1219-1225.	4.8	112
81	Functional Analysis of Photosystem II. , 1998, , 287-322.		2
82	Heavy Metal Binding Properties of Wild Type and Transgenic Algae (Chlamydomonas sp.). , 1998, , 189-192.		2
83	Mutagenesis of the Symmetry Related H117 Residue in the Photosystem II D2 Protein of Chlamydomonas: Implications for Energy Transfer from Accessory Chlorophylls. , 1998, , 1013-1016.		7
84	Modification of the photosystem II acceptor side function in a D1 mutant (arginine-269-glycine) of Chlamydomonasreinhardti. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1322, 60-76.	1.0	35
85	Construction and characterization of a Photosystem II D1 mutant (arginine-269-glycine) of Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1277, 83-92.	1.0	31
86	Characterization of a Site-Directed Mutant (D1-Arginine 269-Glycine) of Chlamydomonas reinhardtii. , 1995, , 575-578.		0
87	Molecular topology of the Photosystem II chlorophyll a binding protein, CP 43: Topology of a thylakoid membrane protein. Photosynthesis Research, 1994, 40, 11-19.	2.9	27
88	The AT thermoluminescence band from Chlamydomonas reinhardtii and the effects of mutagenesis of histidine residues on the donor side of the Photosystem II D1 polypeptide. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1185, 228-237.	1.0	39
89	Lumenal side histidine mutations in the D1 protein of photosystem II affect donor side electron transfer in Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1185, 257-270.	1.0	72
90	REGULATION OF CYANOGENESIS IN CASSAVA. Acta Horticulturae, 1994, , 69-78.	0.2	48

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91	Spectroscopic characterization of tyrosine-Z in histidine 190 mutants of the D1 protein in photosystem II (PSII) in Chlamydomonas reinhardtii. Implications for the structural model of the donor side of PSII. Journal of Biological Chemistry, 1994, 269, 5115-21.	3.4	47
92	Tissue specific inhibition of transient gene expression in cassava (Manihot esculenta Crantz). Plant Science, 1993, 93, 121-130.	3.6	16
93	Characterization of the Expression of the Photosystem II-Oxygen Evolving Complex in C ₄ Species of <i>Flaveria</i> . Plant Physiology, 1992, 98, 1154-1162.	4.8	10
94	Photosynthetic electron transport in genetically altered photosystem II reaction centers of chloroplasts Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 9122-9126.	7.1	59
95	Reduction of Chloroplast DNA Content in <i>Solanum nigrum</i> Suspension Cells by Treatment with Chloroplast DNA Synthesis Inhibitors. Plant Physiology, 1990, 94, 1477-1483.	4.8	9
96	Purification, Characterization, and Localization of Linamarase in Cassava. Plant Physiology, 1990, 93, 176-181.	4.8	137
97	Characterization of the ndhC-psbG-ORF157/159 operon of maize plastid DNA and of the cyanobacterium Synechocystis sp. PCC6803. Molecular Genetics and Genomics, 1989, 216, 60-69.	2.4	70
98	Manganese-binding proteins of the oxygen-evolving complex. Biochemistry, 1989, 28, 5560-5567.	2.5	57
99	Differential expression of oxygen-evolving polypeptide genes in maize leaf cell types. Plant Molecular Biology, 1987, 9, 217-226.	3.9	24
100	The topology of a membrane protein: The orientation of the 32 kd Qb-binding chloroplast thylakoid membrane protein. Cell, 1986, 47, 601-608.	28.9	165
101	Protein PSII-G. An additional component of photosystem II identified through its plastid gene in maize Journal of Biological Chemistry, 1986, 261, 2485-2488.	3.4	63
102	Protein PSII-G. An additional component of photosystem II identified through its plastid gene in maize. Journal of Biological Chemistry, 1986, 261, 2485-8.	3.4	59
103	Studies on the Reconstitution of O ₂ -Evolution of Chloroplasts. Plant Physiology, 1982, 69, 1084-1095.	4.8	32
104	Photosynthetic Enzyme Activities and Localization in <i>Mollugo verticillata</i> Populations Differing in the Levels of C ₃ and C ₄ Cycle Operation. Plant Physiology, 1979, 64, 293-299.	4.8	62
105	A light-dependent oxygen consumption induced by photosystem II of isolated chloroplasts. Archives of Biochemistry and Biophysics, 1979, 196, 525-533.	3.0	30
106	Characterization of chloroplast manganese by electron paramagnetic resonance spectroscopy. Plant Science Letters, 1979, 16, 319-326.	1.8	25
107	Ecotypic differences in the C3 and C4 photosynthetic activity in Mollugo verticillata, a C3?C4 intermediate. Planta, 1977, 134, 257-262.	3.2	46

108 Recent Advances in Algal Biomass Production. , 0, , .