

David J Vinyard

List of Publications by Year in descending order

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45
papers

2,759
citations

236612

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223531

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g-index

46
all docs

46
docs citations

46
times ranked

3799
citing authors

#	ARTICLE	IF	CITATIONS
1	Photosystem II: The Reaction Center of Oxygenic Photosynthesis. Annual Review of Biochemistry, 2013, 82, 577-606.	5.0	330
2	Increased Lipid Accumulation in the <i>Chlamydomonas reinhardtii</i> <i>sta7-10</i> Starchless Isoamylase Mutant and Increased Carbohydrate Synthesis in Complemented Strains. Eukaryotic Cell, 2010, 9, 1251-1261.	3.4	317
3	Binding of dinitrogen to an iron-sulfur-carbon site. Nature, 2015, 526, 96-99.	13.7	223
4	Progress Toward a Molecular Mechanism of Water Oxidation in Photosystem II. Annual Review of Physical Chemistry, 2017, 68, 101-116.	4.8	159
5	Mechanistic Study of an Improved Ni Precatalyst for Suzuki-Miyaura Reactions of Aryl Sulfamates: Understanding the Role of Ni(I) Species. Journal of the American Chemical Society, 2017, 139, 922-936.	6.6	130
6	Oxygen-evolving complex of Photosystem II: an analysis of second-shell residues and hydrogen-bonding networks. Current Opinion in Chemical Biology, 2015, 25, 152-158.	2.8	102
7	Highly active cationic cobalt(II) hydroformylation catalysts. Science, 2020, 367, 542-548.	6.0	100
8	Oxidized quinones signal onset of darkness directly to the cyanobacterial circadian oscillator. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17765-17769.	3.3	93
9	Comparison of dppf-Supported Nickel Precatalysts for the Suzuki-Miyaura Reaction: The Observation and Activity of Nickel(I). Angewandte Chemie - International Edition, 2015, 54, 13352-13356.	7.2	88
10	Experimental Support for a Single Electron-Transfer Oxidation Mechanism in Firefly Bioluminescence. Journal of the American Chemical Society, 2015, 137, 7592-7595.	6.6	85
11	Thylakoid localized bestrophin-like proteins are essential for the CO ₂ concentrating mechanism of <i>Chlamydomonas reinhardtii</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16915-16920.	3.3	83
12	A Multi-iron System Capable of Rapid N ₂ Formation and N ₂ Cleavage. Journal of the American Chemical Society, 2014, 136, 10226-10229.	6.6	82
13	Analysis of the Radiation-Damage-Free X-ray Structure of Photosystem II in Light of EXAFS and QM/MM Data. Biochemistry, 2015, 54, 1713-1716.	1.2	73
14	NH ₃ Binding to the S ₂ State of the O ₂ -Evolving Complex of Photosystem II: Analogue to H ₂ O Binding during the S ₂ → S ₃ Transition. Biochemistry, 2015, 54, 5783-5786.	1.2	68
15	Photosynthetic water oxidation: binding and activation of substrate waters for O-O bond formation. Faraday Discussions, 2015, 185, 37-50.	1.6	66
16	A [3Fe-4S] cluster is required for tRNA thiolation in archaea and eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12703-12708.	3.3	63
17	S ₃ State of the O ₂ -Evolving Complex of Photosystem II: Insights from QM/MM, EXAFS, and Femtosecond X-ray Diffraction. Biochemistry, 2016, 55, 981-984.	1.2	62
18	Metabolic and photosynthetic consequences of blocking starch biosynthesis in the green alga <i>Chlamydomonas reinhardtii</i> <i>sta6</i> mutant. Plant Journal, 2015, 81, 947-960.	2.8	49

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19	Photosystem II oxygen-evolving complex photoassembly displays an inverse H/D solvent isotope effect under chloride-limiting conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18917-18922.	3.3	41
20	Energetics of the S ₂ State Spin Isomers of the Oxygen-Evolving Complex of Photosystem II. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1020-1025.	1.2	38
21	Engineered Photosystem II Reaction Centers Optimize Photochemistry versus Photoprotection at Different Solar Intensities. <i>Journal of the American Chemical Society</i> , 2014, 136, 4048-4055.	6.6	36
22	Natural Variants of Photosystem II Subunit D1 Tune Photochemical Fitness to Solar Intensity *. <i>Journal of Biological Chemistry</i> , 2013, 288, 5451-5462.	1.6	35
23	Endothelial Cell Autonomous Role of Akt1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 870-879.	1.1	34
24	A full set of iridium(IV) pyridine-alkoxide stereoisomers: highly geometry-dependent redox properties. <i>Chemical Science</i> , 2017, 8, 1642-1652.	3.7	32
25	Structure of a monomeric photosystem II core complex from a cyanobacterium acclimated to far-red light reveals the functions of chlorophylls d and f. <i>Journal of Biological Chemistry</i> , 2022, 298, 101424.	1.6	32
26	Slow Equilibration between Spectroscopically Distinct Trap States in Reduced TiO ₂ Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 2868-2871.	6.6	30
27	A Stable Coordination Complex of Rh(IV) in an N,O-Donor Environment. <i>Journal of the American Chemical Society</i> , 2015, 137, 15692-15695.	6.6	27
28	Insights into Proton-Transfer Pathways during Water Oxidation in Photosystem II. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8195-8202.	1.2	26
29	Electrogenerated Chemiluminescence of 9,10-Diphenylanthracene, Rubrene, and Anthracene in Fluorinated Aromatic Solvents. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8529-8533.	1.1	25
30	Thermodynamically accurate modeling of the catalytic cycle of photosynthetic oxygen evolution: A mathematical solution to asymmetric Markov chains. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 861-868.	0.5	25
31	Uncoupling Caveolae From Intracellular Signaling In Vivo. <i>Circulation Research</i> , 2016, 118, 48-55.	2.0	24
32	Insights into Substrate Binding to the Oxygen-Evolving Complex of Photosystem II from Ammonia Inhibition Studies. <i>Biochemistry</i> , 2015, 54, 622-628.	1.2	23
33	Enhanced Electrogenerated Chemiluminescence in the Presence of Fluorinated Alcohols. <i>Analytical Chemistry</i> , 2007, 79, 6404-6409.	3.2	22
34	Oxidized and reduced [2Fe ^{II} 2S] clusters from an iron(II) synthon. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 875-883.	1.1	21
35	Photoluminescence and electrogenerated chemiluminescence of a bis(bipyridyl)ruthenium(II) porphyrin complex. <i>Inorganica Chimica Acta</i> , 2007, 360, 1529-1534.	1.2	17
36	Electrogenerated chemiluminescence of (bis-bipyridyl)ruthenium(II) acetylacetonate complexes. <i>Inorganica Chimica Acta</i> , 2006, 359, 4635-4638.	1.2	15

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37	Iron and Cobalt Diazoalkane Complexes Supported by $\hat{1}^2$ -Diketiminato Ligands: A Synthetic, Spectroscopic, and Computational Investigation. <i>Inorganic Chemistry</i> , 2018, 57, 5959-5972.	1.9	15
38	Ammonia Binding in the Second Coordination Sphere of the Oxygen-Evolving Complex of Photosystem II. <i>Biochemistry</i> , 2016, 55, 4432-4436.	1.2	14
39	Cp* versus Bis-carbonyl Iridium Precursors as CH Oxidation Precatalysts. <i>Organometallics</i> , 2017, 36, 199-206.	1.1	9
40	Identification of an Oxygenic Reaction Center psbADC Operon in the Cyanobacterium <i>Gloeobacter violaceus</i> PCC 7421. <i>Molecular Biology and Evolution</i> , 2012, 29, 35-38.	3.5	7
41	Chloride facilitates Mn(III) formation during photoassembly of the Photosystem II oxygen-evolving complex. <i>Photosynthesis Research</i> , 2022, 152, 283-288.	1.6	6
42	Natural isoforms of the Photosystem II D1 subunit differ in photoassembly efficiency of the water-oxidizing complex. <i>Photosynthesis Research</i> , 2016, 128, 141-150.	1.6	4
43	The Nbp35/ApbC homolog acts as a nonessential [4Fe-4S] transfer protein in methanogenic archaea. <i>FEBS Letters</i> , 2020, 594, 924-932.	1.3	4
44	Electrogenerated chemiluminescence of the lithium salts of 8-hydroxyquinoline and 2-methyl-8-hydroxyquinoline. <i>Dalton Transactions</i> , 2006, , 4461.	1.6	3
45	Desiccation tolerant lichens facilitate in vivo H/D isotope effect measurements in oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1039-1044.	0.5	3