

Carolyn Elizabeth Lubner

List of Publications by Year in descending order

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31
papers

1,360
citations

393982

19
h-index

433756

31
g-index

33
all docs

33
docs citations

33
times ranked

1390
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar hydrogen-producing bionanodevice outperforms natural photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20988-20991.	3.3	156
2	Wiring Photosystem I for Direct Solar Hydrogen Production. Biochemistry, 2010, 49, 404-414.	1.2	143
3	The Electron Bifurcating FixABCX Protein Complex from <i>Azotobacter vinelandii</i> : Generation of Low-Potential Reducing Equivalents for Nitrogenase Catalysis. Biochemistry, 2017, 56, 4177-4190.	1.2	140
4	Photosystem I/Molecular Wire/Metal Nanoparticle Bioconjugates for the Photocatalytic Production of H ₂ . Journal of the American Chemical Society, 2008, 130, 6308-6309.	6.6	135
5	Mechanistic insights into energy conservation by flavin-based electron bifurcation. Nature Chemical Biology, 2017, 13, 655-659.	3.9	121
6	Wiring an [FeFe]-Hydrogenase with Photosystem I for Light-Induced Hydrogen Production. Biochemistry, 2010, 49, 10264-10266.	1.2	120
7	A Novel Photosynthetic Strategy for Adaptation to Low-Iron Aquatic Environments. Biochemistry, 2011, 50, 686-692.	1.2	56
8	A new era for electron bifurcation. Current Opinion in Chemical Biology, 2018, 47, 32-38.	2.8	54
9	Electron Bifurcation: Thermodynamics and Kinetics of Two-Electron Brokering in Biological Redox Chemistry. Accounts of Chemical Research, 2017, 50, 2410-2417.	7.6	44
10	Reduction Potentials of [FeFe]-Hydrogenase Accessory Iron-Sulfur Clusters Provide Insights into the Energetics of Proton Reduction Catalysis. Journal of the American Chemical Society, 2017, 139, 9544-9550.	6.6	42
11	Maximizing H ₂ production in Photosystem I/dithiol molecular wire/platinum nanoparticle bioconjugates. Dalton Transactions, 2009, , 10106.	1.6	40
12	Chemical rescue of a site-modified ligand to a [4Fe-4S] cluster in PsaC, a bacterial-like dicluster ferredoxin bound to Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 712-724.	0.5	39
13	Two-Dimensional Protein Crystals for Solar Energy Conversion. Advanced Materials, 2014, 26, 7064-7069.	11.1	32
14	The catalytic mechanism of electron-bifurcating electron transfer flavoproteins (ETFs) involves an intermediary complex with NAD ⁺ . Journal of Biological Chemistry, 2019, 294, 3271-3283.	1.6	30
15	Universal free-energy landscape produces efficient and reversible electron bifurcation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21045-21051.	3.3	26
16	Electron bifurcation: progress and grand challenges. Chemical Communications, 2019, 55, 11823-11832.	2.2	25
17	Equilibrium and ultrafast kinetic studies manipulating electron transfer: A short-lived flavin semiquinone is not sufficient for electron bifurcation. Journal of Biological Chemistry, 2017, 292, 14039-14049.	1.6	23
18	Activation Thermodynamics and H/D Kinetic Isotope Effect of the H _{ox} to H _{red} H ⁺ Transition in [FeFe] Hydrogenase. Journal of the American Chemical Society, 2017, 139, 12879-12882.	6.6	23

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19	Distinct properties underlie flavin-based electron bifurcation in a novel electron transfer flavoprotein FixAB from <i>Rhodospseudomonas palustris</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 4688-4701.	1.6	22
20	The oxygen reduction reaction catalyzed by <i>Synechocystis</i> sp. PCC 6803 flavodiiron proteins. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3191-3200.	2.5	22
21	The structure and reactivity of the HoxEFU complex from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2020, 295, 9445-9454.	1.6	15
22	Electron Bifurcation Makes the Puzzle Pieces Fall Energetically into Place in Methanogenic Energy Conservation. <i>ChemBioChem</i> , 2017, 18, 2295-2297.	1.3	12
23	A site-differentiated [4Fe-4S] cluster controls electron transfer reactivity of <i>Clostridium acetobutylicum</i> [FeFe]-hydrogenase I. <i>Chemical Science</i> , 2022, 13, 4581-4588.	3.7	8
24	Quantum yield measurements of light-induced H ₂ generation in a photosystem I [FeFe]-H ₂ ase nanoconstruct. <i>Photosynthesis Research</i> , 2016, 127, 5-11.	1.6	7
25	The role of thermodynamic features on the functional activity of electron bifurcating enzymes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148377.	0.5	7
26	Wiring photosystem I for electron transfer to a tethered redox dye. <i>Energy and Environmental Science</i> , 2011, 4, 2428.	15.6	5
27	An uncharacteristically low-potential flavin governs the energy landscape of electron bifurcation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117882119.	3.3	5
28	Introduction to (photo)electrocatalysis for renewable energy. <i>Chemical Communications</i> , 2021, 57, 1540-1542.	2.2	3
29	Bacteria Read Light To Gain a Competitive Advantage. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	2
30	The influence of electron utilization pathways on photosystem I photochemistry in <i>Synechocystis</i> sp. PCC 6803. <i>RSC Advances</i> , 2022, 12, 14655-14664.	1.7	2
31	11 Re-routing redox chains for directed photocatalysis. , 0, , .		0