

Katherine A Brown

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/507549/publications.pdf>

Version: 2024-02-01

24
papers

2,232
citations

471509

17
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

3154
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissecting Electronic-Structural Transitions in the Nitrogenase MoFe Protein P-Cluster during Reduction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5708-5712.	13.7	7
2	The Kinetics of Electron Transfer from CdS Nanorods to the MoFe Protein of Nitrogenase. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8425-8435.	3.1	7
3	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.	3.6	2
4	Coupling biology to synthetic nanomaterials for semi-artificial photosynthesis. <i>Photosynthesis Research</i> , 2020, 143, 193-203.	2.9	26
5	Excitation-Rate Determines Product Stoichiometry in Photochemical Ammonia Production by CdS Quantum Dot-Nitrogenase MoFe Protein Complexes. <i>ACS Catalysis</i> , 2020, 10, 11147-11152.	11.2	23
6	Defining Intermediates of Nitrogenase MoFe Protein during N_2 Reduction under Photochemical Electron Delivery from CdS Quantum Dots. <i>Journal of the American Chemical Society</i> , 2020, 142, 14324-14330.	13.7	32
7	The oxygen reduction reaction catalyzed by <i>Synechocystis</i> sp. PCC 6803 flavodiiron proteins. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3191-3200.	4.9	22
8	Role of Surface-Capping Ligands in Photoexcited Electron Transfer between CdS Nanorods and [FeFe] Hydrogenase and the Subsequent H_2 Generation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 741-750.	3.1	53
9	Activation Thermodynamics and H/D Kinetic Isotope Effect of the H_{ox} to $H_{red}H_{sup}+$ Transition in [FeFe] Hydrogenase. <i>Journal of the American Chemical Society</i> , 2017, 139, 12879-12882.	13.7	23
10	Photobiohybrid Solar Conversion with Metalloenzymes and Photosynthetic Reaction Centers. , 2016, , 473-495.		0
11	Light-driven dinitrogen reduction catalyzed by a CdS:nitrogenase MoFe protein biohybrid. <i>Science</i> , 2016, 352, 448-450.	12.6	676
12	Photocatalytic Regeneration of Nicotinamide Cofactors by Quantum Dot-Enzyme Biohybrid Complexes. <i>ACS Catalysis</i> , 2016, 6, 2201-2204.	11.2	80
13	Competition between electron transfer, trapping, and recombination in CdS nanorod-enzyme complexes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5538-5542.	2.8	45
14	Electron Transfer Kinetics in CdS Nanorod-Enzyme Complexes and Implications for Photochemical H_2 Generation. <i>Journal of the American Chemical Society</i> , 2014, 136, 4316-4324.	13.7	177
15	Diameter Dependent Electron Transfer Kinetics in Semiconductor-Enzyme Complexes. <i>ACS Nano</i> , 2014, 8, 10790-10798.	14.6	32
16	Catalytic Turnover of [FeFe]-Hydrogenase Based on Single-Molecule Imaging. <i>Journal of the American Chemical Society</i> , 2012, 134, 1577-1582.	13.7	172
17	Characterization of Photochemical Processes for H_2 Production by CdS Nanorod-Enzyme Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 5627-5636.	13.7	326
18	Controlled Assembly of Hydrogenase-CdTe Nanocrystal Hybrids for Solar Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2010, 132, 9672-9680.	13.7	246

#	ARTICLE	IF	CITATIONS
19	Recombinant and in vitro expression systems for hydrogenases: new frontiers in basic and applied studies for biological and synthetic H ₂ production. Dalton Transactions, 2009, , 9970.	3.3	48
20	Nucleotide-Surface Interactions in DNA-Modified Au Nanoparticle Conjugates: Sequence Effects on Reactivity and Hybridization. Journal of Physical Chemistry C, 2008, 112, 7517-7521.	3.1	57
21	Magnetic field heating study of Fe-doped Au nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 309, 15-19.	2.3	41
22	Synthesis of water-soluble, magnetic Fe/Au nanoparticles. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	3
23	Selective Heating of Multiple Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	1
24	Changes in Oligonucleotide Conformation on Nanoparticle Surfaces by Modification with Mercaptohexanol. Nano Letters, 2004, 4, 1925-1929.	9.1	132