Katherine A Brown

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Light-driven dinitrogen reduction catalyzed by a CdS:nitrogenase MoFe protein biohybrid. Science, 2016, 352, 448-450.	12.6	676
2	Characterization of Photochemical Processes for H ₂ Production by CdS Nanorod–[FeFe] Hydrogenase Complexes. Journal of the American Chemical Society, 2012, 134, 5627-5636.	13.7	326
3	Controlled Assembly of Hydrogenase-CdTe Nanocrystal Hybrids for Solar Hydrogen Production. Journal of the American Chemical Society, 2010, 132, 9672-9680.	13.7	246
4	Electron Transfer Kinetics in CdS Nanorod–[FeFe]-Hydrogenase Complexes and Implications for Photochemical H ₂ Generation. Journal of the American Chemical Society, 2014, 136, 4316-4324.	13.7	177
5	Catalytic Turnover of [FeFe]-Hydrogenase Based on Single-Molecule Imaging. Journal of the American Chemical Society, 2012, 134, 1577-1582.	13.7	172
6	Changes in Oligonucleotide Conformation on Nanoparticle Surfaces by Modification with Mercaptohexanol. Nano Letters, 2004, 4, 1925-1929.	9.1	132
7	Photocatalytic Regeneration of Nicotinamide Cofactors by Quantum Dot–Enzyme Biohybrid Complexes. ACS Catalysis, 2016, 6, 2201-2204.	11.2	80
8	Nucleotideâ´'Surface Interactions in DNA-Modified Auâ´'Nanoparticle Conjugates: Sequence Effects on Reactivity and Hybridization. Journal of Physical Chemistry C, 2008, 112, 7517-7521.	3.1	57
9	Role of Surface-Capping Ligands in Photoexcited Electron Transfer between CdS Nanorods and [FeFe] Hydrogenase and the Subsequent H ₂ Generation. Journal of Physical Chemistry C, 2018, 122, 741-750.	3.1	53
10	Recombinant and in vitro expression systems for hydrogenases: new frontiers in basic and applied studies for biological and synthetic H2 production. Dalton Transactions, 2009, , 9970.	3.3	48
11	Competition between electron transfer, trapping, and recombination in CdS nanorod–hydrogenase complexes. Physical Chemistry Chemical Physics, 2015, 17, 5538-5542.	2.8	45
12	Magnetic field heating study of Fe-doped Au nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 309, 15-19.	2.3	41
13	Diameter Dependent Electron Transfer Kinetics in Semiconductor–Enzyme Complexes. ACS Nano, 2014, 8, 10790-10798.	14.6	32
14	Defining Intermediates of Nitrogenase MoFe Protein during N ₂ Reduction under Photochemical Electron Delivery from CdS Quantum Dots. Journal of the American Chemical Society, 2020, 142, 14324-14330.	13.7	32
15	Coupling biology to synthetic nanomaterials for semi-artificial photosynthesis. Photosynthesis Research, 2020, 143, 193-203.	2.9	26
16	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.	13.7	23
17	Excitation-Rate Determines Product Stoichiometry in Photochemical Ammonia Production by CdS Quantum Dot-Nitrogenase MoFe Protein Complexes. ACS Catalysis, 2020, 10, 11147-11152	11.2	23
18	The oxygen reduction reaction catalyzed by <i>Synechocystis</i> sp. PCC 6803 flavodiiron proteins. Sustainable Energy and Fuels, 2019, 3, 3191-3200.	4.9	22

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19	Dissecting Electronic-Structural Transitions in the Nitrogenase MoFe Protein P-Cluster during Reduction. Journal of the American Chemical Society, 2022, 144, 5708-5712.	13.7	7
20	The Kinetics of Electron Transfer from CdS Nanorods to the MoFe Protein of Nitrogenase. Journal of Physical Chemistry C, 2022, 126, 8425-8435.	3.1	7
21	Synthesis of water-soluble, magnetic Fe/Au nanoparticles. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	3
22	The influence of electron utilization pathways on photosystem I photochemistry in <i>Synechocystis</i> sp. PCC 6803. RSC Advances, 2022, 12, 14655-14664.	3.6	2
23	Selective Heating of Multiple Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	1
24	Photobiohybrid Solar Conversion with Metalloenzymes and Photosynthetic Reaction Centers. , 2016, , 473-495.		0