Souvik Roy

List of Publications by Year
in descending order

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38	1,570	304602	377752
papers	citations	22 h-index	34 g-index

41	41	41	2136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Cobalt Complexes with Pendant Amines for Selective Electrocatalytic Reduction of Carbon Dioxide to Formic Acid. Journal of the American Chemical Society, 2017, 139, 3685-3696.	6.6	256
2	Visibleâ€Lightâ€Driven CO₂ Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. Angewandte Chemie - International Edition, 2019, 58, 12180-12184.	7.2	135
3	Electrocatalytic Hydrogen Evolution from a Cobaloxime-Based Metalâ€“Organic Framework Thin Film. Journal of the American Chemical Society, 2019, 141, 15942-15950.	6.6	135
4	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. Current Opinion in Chemical Biology, 2015, 25, 36-47.	2.8	71
5	Spectroscopic Characterization of the Bridging Amine in the Active Site of [FeFe] Hydrogenase Using Isotopologues of the H-Cluster. Journal of the American Chemical Society, 2015, 137, 12744-12747.	6.6	64
6	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. Accounts of Chemical Research, 2015, 48, 2380-2387.	7.6	63
7	A Preciousâ€Metalâ€Free Hybrid Electrolyzer for Alcohol Oxidation Coupled to CO₂â€toâ€Syngas Conversion. Angewandte Chemie - International Edition, 2020, 59, 15633-15641.	7.2	62
8	Visibleâ€Light Promoted Câ€“O Bond Formation with an Integrated Carbon Nitrideâ€“Nickel Heterogeneous Photocatalyst. Angewandte Chemie - International Edition, 2021, 60, 8494-8499.	7.2	61
9	Biomimetic model for [FeFe]-hydrogenase: asymmetrically disubstituted diiron complex with a redox-active 2,2â€²-bipyridyl ligand. Dalton Transactions, 2013, 42, 3843.	1.6	60
10	Electrocatalytic and Solar-Driven Reduction of Aqueous CO₂ with Molecular Cobalt Phthalocyanineâ€“Metal Oxide Hybrid Materials. ACS Catalysis, 2021, 11, 1868-1876.	5.5	59
11	A Systematic Comparative Study of Hydrogenâ€Evolving Molecular Catalysts in Aqueous Solutions. ChemSusChem, 2015, 8, 3632-3638.	3.6	52
12	Visibleâ€Lightâ€Driven CO₂ Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. Angewandte Chemie, 2019, 131, 12308-12312.	1.6	48
13	Catalyst accessibility to chemical reductants in metalâ€“organic frameworks. Chemical Communications, 2017, 53, 3257-3260.	2.2	42
14	Artificial [FeFe]â€Hydrogenase: On Resin Modification of an Amino Acid to Anchor a Hexacarbonyldiiron Cluster in a Peptide Framework. European Journal of Inorganic Chemistry, 2011, 2011, 1050-1055.	1.0	40
15	Catalytic Hydrogen Evolution by Fe(II) Carbonyls Featuring a Dithiolate and a Chelating Phosphine. Inorganic Chemistry, 2014, 53, 8919-8929.	1.9	39
16	Biomimetic peptide-based models of [FeFe]-hydrogenases: utilization of phosphine-containing peptides. Dalton Transactions, 2015, 44, 14865-14876.	1.6	39
17	Structural and functional characterization of the hydrogenase-maturation HydF protein. Nature Chemical Biology, 2017, 13, 779-784.	3.9	38
18	A noble metal-free photocatalytic system based on a novel cobalt tetrapyridyl catalyst for hydrogen production in fully aqueous medium. Sustainable Energy and Fuels, 2018, 2, 553-557.	2.5	37

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19	Light-driven hydrogen evolution catalyzed by a cobaloxime catalyst incorporated in a MIL-101(Cr) metalâ€“organic framework. Sustainable Energy and Fuels, 2018, 2, 1148-1152.	2.5	36
20	[FeFe] Hydrogenase active site model chemistry in a UiO-66 metalâ€“organic framework. Chemical Communications, 2017, 53, 5227-5230.	2.2	27
21	Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from Megasphaera elsdenii. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1734-1740.	0.5	26
22	Reactivity of the Excited States of the H-Cluster of FeFe Hydrogenases. Journal of the American Chemical Society, 2016, 138, 13612-13618.	6.6	25
23	Automated and Continuous-Flow Platform to Analyze Semiconductorâ€“Metal Complex Hybrid Systems for Photocatalytic CO₂ Reduction. ACS Catalysis, 2021, 11, 11266-11277.	5.5	19
24	Synthesis and Electrocatalytic Activity of [FeFe]â€Hydrogenase Model Complexes with Nonâ€Innocent Chelating Nitrogenâ€Donor Ligands. European Journal of Inorganic Chemistry, 2017, 2017, 2942-2950.	1.0	18
25	Evaluation of two- and three-dimensional electrode platforms for the electrochemical characterization of organometallic catalysts incorporated in non-conducting metalâ€“organic frameworks. Dalton Transactions, 2017, 46, 4907-4911.	1.6	17
26	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501.	5.5	17
27	A Preciousâ€Metalâ€Free Hybrid Electrolyzer for Alcohol Oxidation Coupled to CO 2 â€toâ€Syngas Conversion. Angewandte Chemie, 2020, 132, 15763-15771.	1.6	17
28	Sequential Oxidations of Thiolates and the Cobalt Metallocenter in a Synthetic Metallopeptide: Implications for the Biosynthesis of Nitrile Hydratase. Inorganic Chemistry, 2013, 52, 5236-5245.	1.9	16
29	Redox-Rich Metallocene Tetrazene Complexes: Synthesis, Structure, Electrochemistry, and Catalysis. Organometallics, 2019, 38, 1361-1371.	1.1	16
30	Spectroscopic investigations of a semi-synthetic [FeFe] hydrogenase with propane di-selenol as bridging ligand in the binuclear subsite: comparison to the wild type and propane di-thiol variants. Journal of Biological Inorganic Chemistry, 2018, 23, 481-491.	1.1	13
31	Hydrophobic Shape-Memory Biocomposites from Tung-Oil-Based Bioresin and Onion-Skin-Derived Nanocellulose Networks. Polymers, 2020, 12, 2470.	2.0	9
32	Cutting out the middleman. Nature Chemical Biology, 2013, 9, 603-605.	3.9	6
33	Synthetic approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 242-281.	1.6	5
34	Visibleâ€Light Promoted Câ€“O Bond Formation with an Integrated Carbon Nitrideâ€“Nickel Heterogeneous Photocatalyst. Angewandte Chemie, 2021, 133, 8575-8580.	1.6	2
35	Synthesis and Electrocatalytic Activity of [FeFe]-Hydrogenase Model Complexes with Non-Innocent Chelating Nitrogen-Donor Ligands. European Journal of Inorganic Chemistry, 2017, 2017, 2941-2941.	1.0	0
36	Beyond artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 422-438.	1.6	0

#	Article	IF	Citations
37	Biological approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 66-83.	1.6	0
38	Editorial: Light-Assisted Molecular and Hybrid Systems for Artificial Photosynthesis. Frontiers in Chemistry, 2022, 10, 868373.	1.8	0