

Chinmoy Bhattacharya

List of Publications by Year in descending order

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29
papers

704
citations

567281

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526287

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30
docs citations

30
times ranked

1136
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoelectrochemical oxidation of water and degradation of pollutants using simple Bi-based metal oxide semiconductors under visible light irradiation. , 2021, , 279-303.		0
2	Optimization of semiconductorâ€“electrolyte interfacial phenomena for stable and efficient photoelectrochemical water oxidation behavior of Bi ₂ Mo ₂ O ₉ â€“Bi ₂ MoO ₆ heterojunction. Electrochimica Acta, 2021, 372, 137754.	5.2	6
3	Synthesis of gâ€“C ₃ /N ₄ /InVO ₄ Semiconductor for Improved Photocatalytic and Photoelectrochemical Applications. Electroanalysis, 2020, 32, 2535-2544.	2.9	13
4	Development of a magnetic nanohybrid for multifunctional application: From immobile photocatalysis to efficient photoelectrochemical water splitting: A combined experimental and computational study. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112575.	3.9	8
5	Amplification of PEC hydrogen production through synergistic modification of Cu ₂ O using cadmium as buffer layer and dopant. Applied Catalysis B: Environmental, 2019, 246, 111-119.	20.2	32
6	Facile photoelectrochemical water oxidation on Co ²⁺ -adsorbed BiVO ₄ thin films synthesized from aqueous solutions. Chemical Engineering Journal, 2019, 374, 1221-1230.	12.7	18
7	Development of Cu ₂ O thin films under the influence of electrochemical impedance: Applications in improved photoelectrochemical water reduction. Electrochimica Acta, 2019, 308, 384-391.	5.2	14
8	Hydrogen Production Through Solar-Driven Water Splitting: Cu(I) Oxide-Based Semiconductor Nanoparticles as the Next-Generation Photocatalysts. Environmental Chemistry for A Sustainable World, 2019, , 189-222.	0.5	0
9	Photocatalytic hydrogen generation using gold decorated BiFeO ₃ heterostructures as an efficient catalyst under visible light irradiation. Solar Energy Materials and Solar Cells, 2019, 194, 195-206.	6.2	89
10	Inversion of activity in DSSC for TiO ₂ and ZnO photo-anodes depending on the choice of sensitizer and carrier dynamics. Journal of Luminescence, 2019, 207, 169-176.	3.1	17
11	Synthesis of oxygen deficient bismuth oxide photocatalyst for improved photoelectrochemical applications. Electrochimica Acta, 2019, 299, 357-365.	5.2	12
12	Solvent Effects on the Photoelectrochemical Water Oxidation Behaviour of TiO ₂ Semiconductors. Materials Today: Proceedings, 2018, 5, 10161-10168.	1.8	6
13	Improvement of photocatalytic activity of surfactant modified In ₂ O ₃ towards environmental remediation. New Journal of Chemistry, 2018, 42, 2467-2475.	2.8	8
14	Eu modified Cu ₂ O thin films: Significant enhancement in efficiency of photoelectrochemical processes through suppression of charge carrier recombination. Chemical Engineering Journal, 2018, 335, 676-684.	12.7	28
15	Halideâ€“Modulated Functionality of Wide Band Gap Zinc Oxide Semiconductor Nanoparticle. ChemistrySelect, 2018, 3, 6382-6393.	1.5	4
16	Photo-induced electronic properties in single quantum well system: effect of excitonic lifetime. Materials Research Express, 2017, 4, 016301.	1.6	6
17	Temperature controlled fabrication of chemically synthesized cubic In ₂ O ₃ crystallites for improved photoelectrochemical water oxidation. Materials Chemistry and Physics, 2017, 201, 7-17.	4.0	10
18	Corrosion Resistance Properties of Aluminum Coating Applied by Arc Thermal Metal Spray in SAE J2334 Solution with Exposure Periods. Metals, 2016, 6, 55.	2.3	41

#	ARTICLE	IF	CITATIONS
19	Enhanced photovoltage in DSSCs: synergistic combination of a silver modified TiO ₂ photoanode and a low cost counter electrode. RSC Advances, 2016, 6, 33433-33442.	3.6	16
20	Benign role of Bi on an electrodeposited Cu ₂ O semiconductor towards photo-assisted H ₂ generation from water. Journal of Materials Chemistry A, 2016, 4, 9244-9252.	10.3	33
21	Development of ternary iron vanadium oxide semiconductors for applications in photoelectrochemical water oxidation. RSC Advances, 2016, 6, 4992-4999.	3.6	47
22	Effect of Substrates on the Photoelectrochemical Reduction of Water over Cathodically Electrodeposited p-Type Cu ₂ O Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 18344-18352.	8.0	62
23	Optimization of Triton-X 100 surfactant in the development of Bismuth Oxide thin film semiconductor for improved photoelectrochemical water oxidation behavior. Electrochimica Acta, 2015, 185, 229-235.	5.2	7
24	Improved photoelectrochemical water oxidation using wurtzite ZnO semiconductors synthesized through simple chemical bath reaction. Electrochimica Acta, 2014, 141, 294-301.	5.2	26
25	Photocatalytic activity of Bi ₂ O ₃ Nanocrystalline Semiconductor developed via Chemical-bath Synthesis. Electrochimica Acta, 2014, 123, 494-500.	5.2	40
26	Rapid Screening by Scanning Electrochemical Microscopy (SECM) of Dopants for Bi ₂ WO ₆ Improved Photocatalytic Water Oxidation with Zn Doping. Journal of Physical Chemistry C, 2013, 117, 9633-9640.	3.1	79
27	Study of the optimal condition for electroplating of Bi ₂ S ₃ thin films and their photoelectrochemical characteristics. Journal of Solid State Electrochemistry, 2009, 13, 1339-1350.	2.5	37
28	Synthesis of nanostructured CdSe/Te films through periodic voltammetry for photoelectrochemical applications. Journal of Solid State Electrochemistry, 2006, 11, 215-222.	2.5	15
29	Studies on anodic corrosion of the electroplated CdSe in aqueous and non-aqueous media for photoelectrochemical cells and characterization of the electrode/electrolyte interface. Materials Chemistry and Physics, 2005, 89, 170-175.	4.0	29