

Ujjwal Pal

List of Publications by Year in descending order

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52
papers

1,621
citations

257450

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h-index

302126

39
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53
all docs

53
docs citations

53
times ranked

2244
citing authors

#	ARTICLE	IF	CITATIONS
1	Ternary Cu(OH) ₂ /P(g-C ₃ N ₄)/MoS ₂ Nanostructures for Photocatalytic Hydrogen Production. ACS Applied Nano Materials, 2022, 5, 4848-4859.	5.0	20
2	Sulfide and selenide electrode for photoelectrochemical water splitting. , 2022, , 525-553.		0
3	CdS/CuCo ₂ S ₄ dots-on-rods boosting charge separation and hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 23632-23643.	7.1	4
4	Controlled photoinduced electron transfer from g-C ₃ N ₄ to CuCdCe-LDH for efficient visible light hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 40227-40241.	7.1	13
5	<i>In situ</i> synthesis of Cu-doped ZIF-8 for efficient photocatalytic water splitting. Applied Organometallic Chemistry, 2022, 36, .	3.5	11
6	Hot injection-induced synthesis of ZnCdS/rGO/MoS ₂ heterostructures for efficient hydrogen production and CO ₂ photoreduction. Chemical Communications, 2021, 57, 8660-8663.	4.1	24
7	Efficient charge transfer on the tunable morphology of TiO ₂ /MoS ₂ photocatalyst for an enhanced hydrogen production. New Journal of Chemistry, 2021, 45, 10257-10267.	2.8	12
8	Technoeconomic Investigation of Amine-Grafted Zeolites and Their Kinetics for CO ₂ Capture. ACS Omega, 2021, 6, 6153-6162.	3.5	17
9	Robust Co ₉ S ₈ @CdIn ₂ S ₄ Cage for Efficient Photocatalytic H ₂ Evolution. Journal of Physical Chemistry C, 2021, 125, 5099-5109.	3.1	44
10	Highly oriented MoS ₂ @CdIn ₂ S ₄ nanostructures for efficient solar fuel generation. Nano Structures Nano Objects, 2021, 26, 100682.	3.5	6
11	Regulating surface structures for efficient electron transfer across h-BN/TiO ₂ /g-C ₃ N ₄ photocatalyst for remarkably enhanced hydrogen evolution. Journal of Materials Science: Materials in Electronics, 2021, 32, 12191-12207.	2.2	6
12	Controlled Loading of MoS ₂ on Hierarchical Porous TiO ₂ for Enhanced Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 11950-11962.	3.1	40
13	Tailoring hierarchical porous TiO ₂ based ternary rGO/NiO/TiO ₂ photocatalyst for efficient hydrogen production and degradation of Rhodamine B. Journal of Molecular Structure, 2021, 1235, 130222.	3.6	15
14	Constructing Cu/BN@PANI ternary heterostructure for efficient photocatalytic hydrogen generation: A combined experimental and DFT studies. International Journal of Hydrogen Energy, 2021, 46, 27394-27408.	7.1	22
15	Efficient visible-light-driven hydrogen production by Zn-porphyrin based photocatalyst with engineered active donor-acceptor sites. Materials Advances, 2021, 2, 4762-4771.	5.4	13
16	1D alignment of Co(metalated porphyrin-naphthalimide based self-assembled nanowires for photocatalytic hydrogen evolution. Nanoscale, 2021, 14, 140-146.	5.6	11
17	Revealing high hydrogen evolution activity in zinc porphyrin sensitized hierarchical porous TiO ₂ photocatalysts. International Journal of Hydrogen Energy, 2020, 45, 7508-7516.	7.1	36
18	Formation of ZnO@CuS nanorods for efficient photocatalytic hydrogen generation. Solar Energy, 2020, 196, 540-548.	6.1	55

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19	Unravelling the impact of thiophene auxiliary in new porphyrin sensitizers for high solar energy conversion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 392, 112408.	3.9	22
20	A combined experimental and theoretical approach revealing a direct mechanism for bifunctional water splitting on doped copper phosphide. <i>Nanoscale</i> , 2020, 12, 17769-17779.	5.6	21
21	Visible light induced L-α-amino acid synthesis from carbon dioxide using nanostructured ZnO/CuO heterojunction photocatalyst. <i>Materialia</i> , 2020, 12, 100777.	2.7	12
22	Rational design of Ru(II)-phenanthroline complex embedded porous TiO ₂ photocatalyst for efficient hydrogen production. <i>Renewable Energy</i> , 2020, 159, 1-9.	8.9	8
23	Photoinduced Fabrication of Cu/TiO ₂ Core-Shell Heterostructures Derived from Cu-MOF for Solar Hydrogen Generation: The Size of the Cu Nanoparticle Matters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26073-26081.	3.1	26
24	A Diuranyl(VI) Complex and Its Application in Electrocatalytic and Photocatalytic Hydrogen Evolution from Neutral Aqueous Medium. <i>Inorganic Chemistry</i> , 2019, 58, 14410-14419.	4.0	16
25	Polyethylenimine-Modified Zeolite 13X for CO ₂ Capture: Adsorption and Kinetic Studies. <i>ACS Omega</i> , 2019, 4, 16441-16449.	3.5	40
26	Ruthenium(II)-bis(phenolato)bipyridine/TiO ₂ hybrids: unprecedented photocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2019, 48, 10070-10077.	3.3	9
27	The facile hydrothermal synthesis of CuO@ZnO heterojunction nanostructures for enhanced photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2019, 43, 6794-6805.	2.8	82
28	Controlled addition of Cu/Zn in hierarchical CuO/ZnO p-n heterojunction photocatalyst for high photoreduction of CO ₂ to MeOH. <i>Journal of CO₂ Utilization</i> , 2019, 31, 207-214.	6.8	91
29	Noble metal-free integrated UiO-66-PANI-Co ₃ O ₄ catalyst for visible-light-induced H ₂ production. <i>Chemical Communications</i> , 2019, 55, 14494-14497.	4.1	21
30	Tetrathiafulvalene Scaffold-Based Sensitizer on Hierarchical Porous TiO ₂ : Efficient Light-Harvesting Material for Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2019, 123, 70-81.	3.1	23
31	Hierarchical Porous TiO ₂ Embedded Unsymmetrical Zinc-Phthalocyanine Sensitizer for Visible-Light-Induced Photocatalytic H ₂ Production. <i>Journal of Physical Chemistry C</i> , 2018, 122, 495-502.	3.1	46
32	Photochemical Oxidative Coupling of 2-Naphthols using a Hybrid Reduced Graphene Oxide/Manganese Dioxide Nanocomposite under Visible-Light Irradiation. <i>ChemCatChem</i> , 2018, 10, 1844-1852.	3.7	30
33	Ternary rGO/InVO ₄ /Fe ₂ O ₃ Z-Scheme Heterostructured Photocatalyst for CO ₂ Reduction under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8201-8211.	6.7	67
34	Understanding the Structural and Electronic Effect of Zr ⁴⁺ -Doped KNb(Zr)O ₃ Perovskite for Enhanced Photoactivity: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2597-2604.	3.1	9
35	Modulated Binary-Ternary Dual Semiconductor Heterostructures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2705-2708.	13.8	33
36	Shedding light on hydroxyquinoline-based ruthenium sensitizers with a long-lived charge carrier to boost photocatalytic H ₂ evolution. <i>RSC Advances</i> , 2016, 6, 41165-41172.	3.6	7

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37	Fabrication of mixed phase TiO ₂ heterojunction nanorods and their enhanced photoactivities. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15260-15268.	2.8	39
38	Oriented Attachments and Formation of Ring-on-Disk Heterostructure Au@Cu ₃ P Photocatalysts. <i>Chemistry of Materials</i> , 2016, 28, 1872-1878.	6.7	38
39	Synthesis of MOF templated Cu/CuO@TiO ₂ nanocomposites for synergistic hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4780-4788.	2.8	77
40	Visible light induced hydrogen production over thiophenothiazine-based dye sensitized TiO ₂ photocatalyst in neutral water. <i>RSC Advances</i> , 2015, 5, 31415-31421.	3.6	47
41	Cowrie-shell architectures: Low temperature growth of Ni doped CdS film. <i>Journal of Alloys and Compounds</i> , 2015, 649, 553-558.	5.5	6
42	Effect of donor-donor- π -acceptor architecture of triphenylamine-based organic sensitizers over TiO ₂ photocatalysts for visible-light-driven hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9069-9079.	7.1	45
43	Fabrication of hierarchical ZnO/CdS heterostructured nanocomposites for enhanced hydrogen evolution from solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20407-20415.	2.8	65
44	Co-MOF as a sacrificial template: manifesting a new Co ₃ O ₄ /TiO ₂ system with a π heterojunction for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20288-20296.	10.3	110
45	First Study on Phosphonite-Coordinated Ruthenium Sensitizers for Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19635-19642.	8.0	27
46	A simple carbazole based sensitizer attached to a Nafion-coated-TiO ₂ photocatalyst: the impact of controlling parameters towards visible light driven H ₂ production. <i>New Journal of Chemistry</i> , 2015, 39, 713-720.	2.8	31
47	Synthesis, crystal structure and optical properties of a naphthylbisimide-Ni complex: a framework on TiO ₂ for visible light H ₂ production. <i>Dalton Transactions</i> , 2014, 43, 15704-15707.	3.3	16
48	Effect of sacrificial electron donors on hydrogen generation over visible light-irradiated nonmetal-doped TiO ₂ photocatalysts. <i>Transition Metal Chemistry</i> , 2012, 37, 93-96.	1.4	33
49	Kinetics and mechanism for oxidation of [Ru(III)(edta)(H ₂ O)] ⁻ with peroxydisulfate in aqueous medium. <i>Journal of Coordination Chemistry</i> , 2010, 63, 2598-2604.	2.2	3
50	Nanocrystalline Magnesium Oxide-stabilized Palladium(0): An Efficient and Reusable Catalyst for Selective Reduction of Nitro Compounds. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 822-827.	4.3	94
51	Transfer Hydrogenation of Carbonyl Compounds Catalyzed by Ruthenium Nanoparticles Stabilized on Nanocrystalline Magnesium Oxide by Ionic Liquids. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2231-2235.	4.3	33
52	An Efficient Synthesis of Organic Carbonates using Nanocrystalline Magnesium Oxide. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1671-1675.	4.3	44