

Vempuluru Navakoteswara Rao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

1,035
citations

18
h-index

32
g-index

32
ext. papers

1,397
ext. citations

7.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
32	Light-driven transformation of biomass into chemicals using photocatalysts - Vistas and challenges. <i>Journal of Environmental Management</i> , 2021 , 284, 111983	7.9	10
31	Manifestation of enhanced and durable photocatalytic H ₂ production using hierarchically structured Pt@Co ₃ O ₄ /TiO ₂ ternary nanocomposite. <i>Ceramics International</i> , 2021 , 47, 10226-10235	5.1	7
30	High potential and robust ternary LaFeO/CdS/carbon quantum dots nanocomposite for photocatalytic H evolution under sunlight illumination. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 255-266	9.3	32
29	Significantly enhanced cocatalyst-free H ₂ evolution from defect-engineered Brown TiO ₂ . <i>Ceramics International</i> , 2021 , 47, 14821-14828	5.1	5
28	Optimization of N doping in TiO nanotubes for the enhanced solar light mediated photocatalytic H production and dye degradation. <i>Environmental Pollution</i> , 2021 , 269, 116170	9.3	22
27	Solar hydrogen generation from organic substance using earth abundant Cu ₂ NiO heterojunction semiconductor photocatalyst. <i>Ceramics International</i> , 2021 , 47, 10206-10215	5.1	7
26	Sea urchin shaped ZnO coupled with MoS ₂ and polyaniline as highly efficient photocatalysts for organic pollutant decomposition and hydrogen evolution. <i>Ceramics International</i> , 2021 , 47, 10301-10313	5.1	17
25	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125359	12.8	14
24	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H production in crude glycerol and sulphide wastewater. <i>Environmental Research</i> , 2021 , 199, 111323	7.9	6
23	Metal chalcogenide-based core/shell photocatalysts for solar hydrogen production: Recent advances, properties and technology challenges. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125588	12.8	10
22	Heterojunction engineering at ternary Cu ₂ S/Ta ₂ O ₅ /CdS nanocomposite for enhanced visible light-driven photocatalytic hydrogen evolution. <i>Materials Today Energy</i> , 2021 , 21, 100779	7	2
21	Surfactant controlled metal oxide shell layer deposition for enhanced photocatalytic solar hydrogen generation: CdSe/TiO ₂ nanocomposite a case study. <i>Materials Letters</i> , 2021 , 298, 130025	3.3	4
20	Unraveling the structural and morphological stability of oxygen vacancy engineered leaf-templated CaTiO ₃ towards photocatalytic H ₂ evolution and N ₂ fixation reactions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17006-17018	13	27
19	Temperature-Driven Morphology Control on CdSe Nanofractals and Its Influence over the Augmented Rate of H ₂ Evolution: Charge Separation via the S-Scheme Mechanism with Incorporated Cu ₃ P. <i>ACS Applied Energy Materials</i> , 2021 , 4, 13983-13996	6.1	1
18	Three-Dimensional Carbonaceous Aerogels Embedded with Rh-SrTiO ₃ for Enhanced Hydrogen Evolution Triggered by Efficient Charge Transfer and Light Absorption. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12134-12147	6.1	22
17	Retorting Photocorrosion and Enhanced Charge Carrier Separation at CdSe Nanocapsules by Chemically Synthesized TiO ₂ Shell for Photocatalytic Hydrogen Fuel Generation. <i>ChemCatChem</i> , 2020 , 12, 3139-3152	5.2	10
16	Interplay between Mesocrystals of CaTiO ₃ and Edge Sulfur Atom Enriched MoS ₂ on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. <i>ChemPhotoChem</i> , 2020 , 4, 427-444	3.3	47

15	Heterojunction of CdS Nanocapsules/WO ₃ Nanosheets Composite as a Stable and Efficient Photocatalyst for Hydrogen Evolution. <i>Energy & Fuels</i> , 2020 , 34, 14598-14610	4.1	7
14	CuO@NiO core-shell nanoparticles decorated anatase TiO ₂ nanospheres for enhanced photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7517-7529	6.7	36
13	Photocatalytic recovery of H ₂ from H ₂ S containing wastewater: Surface and interface control of photo-excitons in Cu ₂ S@TiO ₂ core-shell nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 174-185	21.8	167
12	The facile hydrothermal synthesis of CuO@ZnO heterojunction nanostructures for enhanced photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2019 , 43, 6794-6805	3.6	55
11	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10453-10472	6.7	148
10	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. <i>Journal of Environmental Management</i> , 2019 , 248, 109246	7.9	80
9	Defect-Rich MoS ₂ Ultrathin Nanosheets-Coated Nitrogen-Doped ZnO Nanorod Heterostructures: An Insight into in-Situ-Generated ZnS for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5622-5634	6.1	62
8	Pt/TiO ₂ nanotube photocatalyst - Effect of synthesis methods on valance state of Pt and its influence on hydrogen production and dye degradation. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 83-98	9.3	30
7	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	3.8	18
6	Nanostructured semiconducting materials for efficient hydrogen generation. <i>Environmental Chemistry Letters</i> , 2018 , 16, 765-796	13.3	64
5	Effective shuttling of photoexcitons on CdS/NiO core/shell photocatalysts for enhanced photocatalytic hydrogen production. <i>Materials Research Bulletin</i> , 2018 , 101, 223-231	5.1	35
4	Synthesis of titania wrapped cadmium sulfide nanorods for photocatalytic hydrogen generation. <i>Materials Research Bulletin</i> , 2018 , 103, 122-132	5.1	29
3	CuO Cr ₂ O ₃ core-shell structured co-catalysts on TiO ₂ for efficient photocatalytic water splitting using direct solar light. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3976-3987	6.7	35
2	Development of high quantum efficiency CdS/ZnS core/shell structured photocatalyst for the enhanced solar hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22315-22328	6.7	26
1	Solar-light responsive efficient H ₂ evolution using a novel ternary hierarchical SrTiO ₃ /CdS/carbon nanospheres photocatalytic system. <i>Journal of Nanostructure in Chemistry</i> , 1	7.6	0