

Electrochemical Photolysis of Water at a Semiconductor

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Citation Report

#	ARTICLE	IF	CITATIONS
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6733	Facile fabrication of N-doped TiO ₂ nanocatalyst with superior performance under visible light irradiation. <i>Journal of Solid State Chemistry</i> , 2013, 199, 280-286.	1.4	23
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6735	CuIn _x Ga _{1-x} Se ₂ as an efficient photocathode for solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15027-15035.	3.8	52
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6737	Photoelectrochemical performance of Cu-Zn-In-S film grown using one-step electrodeposition. <i>Electrochimica Acta</i> , 2013, 87, 53-62.	2.6	15
6738	Synthesis and characterization of bifunctional γ -MnO ₂ -based Pt/C photoelectrochemical cell for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4342-4350.	3.8	13
6739	Three dimensional urchin-like ordered hollow TiO ₂ /ZnO nanorods structure as efficient photoelectrochemical anode. <i>Nano Energy</i> , 2013, 2, 779-786.	8.2	79
6740	An overview of photocatalysis phenomena applied to NO _x abatement. <i>Journal of Environmental Management</i> , 2013, 129, 522-539.	3.8	213
6741	Hydrothermal processing and in situ surface modification of metal oxide nanomaterials. <i>Journal of Supercritical Fluids</i> , 2013, 79, 251-260.	1.6	15
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9492	Sonochemistry synthesis of Bi ₂ S ₃ /CdS heterostructure with enhanced performance for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14479-14486.	3.8	64
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10065	A facile approach to further improve the substitution of nitrogen into reduced TiO ₂ with an enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 66-73.	10.8	64
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10069	Understanding and Controlling Nucleation and Growth of TiO ₂ Deposited on Multiwalled Carbon Nanotubes by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3379-3387.	1.5	34
10070	Facile Synthesis of Hollow TiO ₂ Single Nanocrystals with Improved Photocatalytic and Photoelectrochemical Activities. <i>ChemPlusChem</i> , 2015, 80, 688-696.	1.3	15
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10072	A DFT study of the effect of OH groups on the optical, electronic, and structural properties of TiO ₂ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5321-5327.	1.3	5
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10074	Electrostatically Assembled CdS-Co ₃ O ₄ Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules. <i>Small</i> , 2015, 11, 668-674.	5.2	39
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10079	Visible light switchable Br/TiO ₂ nanostructured photoanodes for bio-inspired solar energy conversion. <i>RSC Advances</i> , 2015, 5, 18642-18646.	1.7	20
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10081	Applications of atomic layer deposition in solar cells. <i>Nanotechnology</i> , 2015, 26, 064001.	1.3	86
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10083	Photo-induced reduction of CO ₂ using a magnetically separable Ru-CoPc@TiO ₂ @SiO ₂ @Fe ₃ O ₄ catalyst under visible light irradiation. <i>Dalton Transactions</i> , 2015, 44, 4546-4553.	1.6	16
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10085	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C ₃ N ₄ and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. <i>Chemistry of Materials</i> , 2015, 27, 1612-1621.	3.2	252
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10087	Photovoltaic and magnetic properties of BiFeO ₃ /TiO ₂ heterostructures under epitaxial strain and an electric field. <i>Materials Chemistry and Physics</i> , 2015, 153, 405-409.	2.0	7
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10090	Visible light-driven photocatalytic H ₂ -generation activity of CuS/ZnS composite particles. <i>Materials Research Bulletin</i> , 2015, 64, 370-374.	2.7	28
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10092	Preparation of g-C ₃ N ₄ /BiOX (X=Cl, Br, I) composites, and their photocatalytic activity under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2015, 41, 6941-6955.	1.3	33
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10096	Enhanced Electrical Transparency by Ultrathin LaAlO ₃ Insertion at Oxide Metal/Semiconductor Heterointerfaces. <i>Nano Letters</i> , 2015, 15, 1622-1626.	4.5	24
10097	Application-wise nanostructuring of anodic films on titanium: a review. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1285-1308.	1.3	35
10098	C@SiNW/TiO ₂ Core-Shell Nanoarrays with Sandwiched Carbon Passivation Layer as High Efficiency Photoelectrode for Water Splitting. <i>Scientific Reports</i> , 2014, 4, 4897.	1.6	22
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10101	Hierarchically macro-mesoporous ZrO ₂ -TiO ₂ composites with enhanced photocatalytic activity. <i>Ceramics International</i> , 2015, 41, 5749-5757.	2.3	86
10102	Enhanced visible light photocatalytic properties of TiO ₂ thin films on the textured multicrystalline silicon wafers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4903-4908.	5.2	10
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11045	Light induced hydrogen generation with silicon-based thin film tandem solar cells used as photocathode. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 899-904.	3.8	21
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11056	Synthesis high specific surface area nanotube g-C ₃ N ₄ with two-step condensation treatment of melamine to enhance photocatalysis properties. <i>RSC Advances</i> , 2015, 5, 4026-4029.	1.7	75
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11064	Enhanced photoelectrochemical and photocatalytic performance of TiO ₂ nanorod arrays/CdS quantum dots by coating TiO ₂ through atomic layer deposition. <i>Nano Energy</i> , 2015, 11, 400-408.	8.2	104
11065	Semiconductor-based photocatalytic CO ₂ conversion. <i>Materials Horizons</i> , 2015, 2, 261-278.	6.4	380
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11068	C and N doped nano-sized TiO ₂ for visible light photocatalytic degradation of aqueous pollutants. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 115-125.	1.3	14
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11080	Fast fabrication of Ta ₂ O ₅ nanotube arrays and their conversion to Ta ₃ N ₅ for efficient solar driven water splitting. <i>Electrochemistry Communications</i> , 2015, 50, 15-19.	2.3	42
11081	Hierarchical TiO ₂ nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. <i>Nano Energy</i> , 2015, 11, 19-27.	8.2	107
11082	Marangoni ring-templated vertically aligned ZnO nanotube arrays with enhanced photocatalytic hydrogen production. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 12-16.	2.0	25
11083	Controlled Preparation of Porous TiO ₂ Ag Nanostructures through Supramolecular Assembly for Plasmon-Enhanced Photocatalysis. <i>Advanced Materials</i> , 2015, 27, 314-319.	11.1	234
11084	Enhanced visible light photocatalytic activity of Cu ₂ O via cationic-anionic passivated codoping. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 630-637.	1.3	42
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11089	Controllable synthesis and morphology-dependent photocatalytic performance of anatase TiO ₂ nanoplates. <i>RSC Advances</i> , 2015, 5, 513-520.	1.7	31
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13073	Synthesis of well-dispersed TiO_2 @reduced graphene oxide (rGO) nanocomposites and their photocatalytic properties. <i>Materials Research Bulletin</i> , 2017, 90, 125-130.	2.7	94
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13094	Novel framework g-C ₃ N ₄ film as efficient photoanode for photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 657-662.	10.8	76
13095	TiO ₂ mesocrystals composited with gold nanorods for highly efficient visible-NIR-photocatalytic hydrogen production. <i>Nano Energy</i> , 2017, 35, 1-8.	8.2	95
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13106	Seawater operating bio-photovoltaic cells coupling semiconductor photoanodes and enzymatic biocathodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 842-850.	2.5	9
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13230	Unravelling Photocarrier Dynamics beyond the Space Charge Region for Photoelectrochemical Water Splitting. <i>Chemistry of Materials</i> , 2017, 29, 4036-4043.	3.2	23
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13357	Interfacial charge transfer in functionalized multi-walled carbon nanotube@TiO ₂ nanofibres. <i>Nanoscale</i> , 2017, 9, 7911-7921.	2.8	71
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14063	Translucent nanoparticle-based aerogel monoliths as 3-dimensional photocatalysts for the selective photoreduction of CO ₂ to methanol in a continuous flow reactor. <i>Materials Horizons</i> , 2017, 4, 1115-1121.	6.4	61
14064	Improving Visible-light Responses and Electric Conductivities by Incorporating Sb ₂ S ₃ and Reduced Graphene Oxide in a WO ₃ Nanoplate Array for Photoelectrochemical Water Oxidation. <i>Electrochimica Acta</i> , 2017, 252, 235-244.	2.6	27
14065	Identifying the Site-Dependent Photoactivity of Anatase TiO ₂ (001)-(1 $\bar{1}$ –4) Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19930-19937.	1.5	14
14066	Current progress and challenges in engineering viable artificial leaf for solar water splitting. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 399-417.	1.5	26
14067	Nature-Mimic ZnO Nanoflowers Architecture: Chalcogenide Quantum Dots Coupling with ZnO/ZnTiO ₃ Nanoheterostructures for Efficient Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21096-21104.	1.5	32
14068	High temperature activation of hematite nanorods for sunlight driven water oxidation reaction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25025-25032.	1.3	23
14069	Designing transition metal and nitrogen-codoped SrTiO ₃ (001) perovskite surfaces as efficient photocatalysts for water splitting. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1968-1980.	2.5	15
14070	Photocatalytic self-cleaning transparent 2Bi ₂ O ₃ -B ₂ O ₃ glass ceramics. <i>Journal of Applied Physics</i> , 2017, 122, 094901.	1.1	14
14071	Sunlight-assisted photocatalytic degradation of textile effluent and Rhodamine B by using iodine doped TiO ₂ nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 349, 138-147.	2.0	54
14072	Methanol on Anatase TiO ₂ (101): Mechanistic Insights into Photocatalysis. <i>ACS Catalysis</i> , 2017, 7, 7081-7091.	5.5	93
14073	Spectroscopic Study of the Reversible Chemical Reduction and Reoxidation of Substitutional Cr Ions in Sr ₂ TiO ₄ . <i>Inorganic Chemistry</i> , 2017, 56, 9177-9184.	1.9	5
14074	In ²⁺ /S ³⁺ modified ZnO nanorod arrays for photoelectrochemical water splitting. , 2017, , .		1
14075	A Highly Versatile and Adaptable Artificial Leaf with Floatability and Planar Compact Design Applicable in Various Natural Environments. <i>Advanced Materials</i> , 2017, 29, 1702431.	11.1	13
14076	Preparation of highly mesoporous honeycomb-like TiO ₂ and its excellent application. <i>New Journal of Chemistry</i> , 2017, 41, 8377-8381.	1.4	3
14077	Sequentially surface modified hematite enables lower applied bias photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20881-20890.	1.3	34
14078	Charge Carrier Dynamics in Metal Oxide Photoelectrodes for Water Oxidation. <i>Semiconductors and Semimetals</i> , 2017, , 3-46.	0.4	16
14079	Toward non-precious nanocomposite photocatalyst: An efficient ternary photoanode TiO ₂ nanotube/Co ₉ S ₈ /polyoxometalate for photoelectrochemical water splitting. <i>Applied Catalysis A: General</i> , 2017, 544, 137-144.	2.2	28

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14081	One-dimensional hematite photoanodes with spatially separated Pt and FeOOH nanolayers for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17056-17063.	5.2	55
14082	Impact of structural, morphological and electrical properties of Gd _x Ti _{1-x} O ₂ nanocomposites on the photocatalytic degradation of Rhodamine B dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16384-16396.	1.1	0
14083	Visible-light-driven photocatalytic system based on a nickel complex over CdS materials for hydrogen production from water. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 353-361.	10.8	63
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14085	Self-cleaning traffic marking paint. <i>Surfaces and Interfaces</i> , 2017, 9, 13-20.	1.5	21
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14090	Construction of p-n heterojunction $\text{Bi}^{2+}\text{-Bi}_2\text{O}_3/\text{BiVO}_4$ nanocomposite with improved photoinduced charge transfer property and enhanced activity in degradation of ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 259-268.	10.8	97
14091	Synthesis of m-LaVO ₄ /BiOBr composite photocatalysts and their photocatalytic performance under visible light. <i>Materials Research Bulletin</i> , 2017, 95, 146-151.	2.7	13
14092	Laser-Induced Surface Modification at Anatase TiO ₂ Nanotube Array Photoanodes for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17121-17128.	1.5	34
14093	Facile Hydrothermally Synthesized a Novel CdS Nanoflower/Rutile-TiO ₂ Nanorod Heterojunction Photoanode Used for Photoelectrocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7537-7548.	3.2	49
14094	Significantly enhanced photocatalytic activity of visible light responsive AgBr/Bi ₂ Sn ₂ O ₇ heterostructured composites. <i>Applied Surface Science</i> , 2017, 426, 1173-1181.	3.1	42
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14101	Spin Unrestricted Nonradiative Relaxation Dynamics of Cobalt-Doped Anatase Nanowire. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16110-16125.	1.5	8
14102	Impact of Photosensitizing Multilayered Structure on Ruthenium(II)-Dye-Sensitized TiO ₂ -Nanoparticle Photocatalysts. <i>ACS Omega</i> , 2017, 2, 3901-3912.	1.6	21
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14111	Anisotropic Metal Deposition on TiO ₂ Particles by Electric-Field-Induced Charge Separation. <i>Angewandte Chemie</i> , 2017, 129, 11589-11593.	1.6	4
14112	Iron-based metal-organic frameworks (MOFs) for visible-light-induced photocatalysis. <i>Research on Chemical Intermediates</i> , 2017, 43, 5169-5186.	1.3	88
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14118	The distribution of excess carriers and their effects on water dissociation on rutile (110) surface. <i>Computational Materials Science</i> , 2017, 136, 150-156.	1.4	4
14119	Urchin-shaped MoS ₂ @Cd _{0.8} Zn _{0.2} S nanocomposites with greatly enhanced and long-lasting photocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18824-18831.	3.8	18
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14121	Size effects of cocatalysts in photoelectrochemical and photocatalytic water splitting. <i>Materials Today Energy</i> , 2017, 5, 158-163.	2.5	38
14122	Cadmium sulfide with tunable morphologies: Preparation and visible-light driven photocatalytic performance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 116-123.	1.3	45
14123	Tailoring oxide-layer formation on titanium substrates using microwave plasma treatments. <i>Surface and Coatings Technology</i> , 2017, 325, 299-307.	2.2	13
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14131	Polythiophene@Peptide Biohybrid Assemblies for Enhancing Photoinduced Hydrogen Evolution. <i>Advanced Electronic Materials</i> , 2017, 3, 1700161.	2.6	18
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14159	Metal Free Composite Electrodes for Hydrogen Evolution Reaction. <i>Materials Today: Proceedings</i> , 2017, 4, 5116-5121.	0.9	0
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14173	Photonic crystal structural-induced Cu ₃ SnS ₄ /Ti ₃ O ₇ -TiO ₂ p-n coaxial heterojunction arrays for light-driven H ₂ production and pollutant degradation. <i>Materials and Design</i> , 2017, 133, 426-434.	3.3	16
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14425	Highly efficient photocatalyst based on all oxides WO ₃ /Cu ₂ O heterojunction for photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 84-91.	10.8	193
14426	Constructing iron phthalocyanine nanosheets/electrospun carbon nanofibers heterostructures with enhanced photocatalytic activity under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2017, 690, 160-168.	2.8	12
14427	A comparison of graphitic carbon nitrides synthesized from different precursors through pyrolysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 32-44.	2.0	124

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14429	Noble metal-metal oxide nanohybrids with tailored nanostructures for efficient solar energy conversion, photocatalysis and environmental remediation. <i>Energy and Environmental Science</i> , 2017, 10, 402-434.	15.6	820
14430	Ultraviolet photocatalytic degradation of cholesterol on TiO ₂ : secondary ion mass spectrometry. <i>Surface and Interface Analysis</i> , 2017, 49, 278-283.	0.8	0
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14444	Decorating CoP and Pt Nanoparticles on Graphitic Carbon Nitride Nanosheets to Promote Overall Water Splitting by Conjugated Polymers. <i>ChemSusChem</i> , 2017, 10, 87-90.	3.6	278
14445	Noble-metal-free cobalt phosphide modified carbon nitride: An efficient photocatalyst for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 477-483.	10.8	364

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14448	Platinum-decorated Cu(InGa)Se ₂ /CdS photocathodes: Optimization of Pt electrodeposition time and pH level. <i>Journal of Alloys and Compounds</i> , 2017, 692, 294-300.	2.8	5
14449	Phosphate modified N/Si co-doped rutile TiO ₂ nanorods for photoelectrochemical water oxidation. <i>Applied Surface Science</i> , 2017, 391, 288-294.	3.1	14
14450	Fabrication of Cd _{0.5} Zn _{0.5} S nanoparticles decorated TiO ₂ nanotube arrays electrode and its enhanced photoelectrocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2017, 691, 388-398.	2.8	11
14451	Solid-state photoelectrochemical cell with TiO ₂ nanotubes for water splitting. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 10-16.	1.6	26
14452	Stressors alter intercellular communication and exosome profile of nasopharyngeal carcinoma cells. <i>Journal of Oral Pathology and Medicine</i> , 2017, 46, 259-266.	1.4	38
14453	Improving the photovoltaic conversion efficiency of ZnO based dye sensitized solar cells by indium doping. <i>Journal of Alloys and Compounds</i> , 2017, 692, 67-76.	2.8	107
14454	Cadmium oxide based efficient electrocatalyst for hydrogen peroxide sensing and water oxidation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1092-1100.	1.1	15
14455	Synthesis and characterization of Au-Pd/NaTaO ₃ multilayer films for photocatalytic hydrogen production. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 208-214.	2.0	25
14456	Fundamentals and some applications of photoelectrocatalysis and effective factors on its efficiency: a review. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 305-336.	1.2	68
14457	Efficient visible-light driven photocatalysts: coupling TiO ₂ (AB) nanotubes with g-C ₃ N ₄ nanoflakes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1271-1280.	1.1	5
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14459	Synthesis of Tb-doped titanium dioxide nanostructures by sol-gel method for environmental photocatalysis applications. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 276-283.	1.1	12
14460	Preparation of vertically aligned WO ₃ nanoplate array films based on peroxotungstate reduction reaction and their excellent photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 388-396.	10.8	114
14461	Facile synthesis of flake-like TiO ₂ /C nano-composites for photocatalytic H ₂ evolution under visible-light irradiation. <i>Applied Surface Science</i> , 2017, 392, 889-896.	3.1	37
14462	Fabrication of Ag ₂ O/TiO ₂ -Zeolite composite and its enhanced solar light photocatalytic performance and mechanism for degradation of norfloxacin. <i>Chemical Engineering Journal</i> , 2017, 308, 818-826.	6.6	98
14463	Hybridization of rutile TiO ₂ (rTiO ₂) with g-C ₃ N ₄ quantum dots (CN QDs): An efficient visible-light-driven Z-scheme hybridized photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 611-619.	10.8	296

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14464	Ultrasound-assisted growth of Zn _{0.2} Cd _{0.8} S nanoparticles on mesoporous P-doped graphitic carbon nitride nanosheets for superior photocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2017, 690, 503-511.	2.8	17
14465	MoS ₂ -coated ZnO nanocomposite as an active heterostructure photocatalyst for hydrogen evolution. <i>Radiation Physics and Chemistry</i> , 2017, 137, 104-107.	1.4	45
14466	In situ synthesis of C-TiO ₂ /g-C ₃ N ₄ heterojunction nanocomposite as highly visible light active photocatalyst originated from effective interfacial charge transfer. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 489-499.	10.8	262
14467	Langmuir-Blodgett assembly of visible light responsive TiO ₂ nanotube arrays/graphene oxide heterostructure. <i>Applied Surface Science</i> , 2017, 392, 1036-1042.	3.1	7
14468	Au nanoparticles modified branched TiO ₂ nanorod array arranged with ultrathin nanorods for enhanced photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2017, 693, 1124-1132.	2.8	51
14469	Photochemical and photocatalytic evaluation of 1D titanate/TiO ₂ based nanomaterials. <i>Applied Surface Science</i> , 2017, 392, 418-429.	3.1	18
14470	Cobalt-doped graphitic carbon nitride photocatalysts with high activity for hydrogen evolution. <i>Applied Surface Science</i> , 2017, 392, 608-615.	3.1	191
14471	Evaluating photodegradation properties of anatase and rutile TiO ₂ nanoparticles for organic compounds. <i>Optik</i> , 2017, 128, 191-200.	1.4	112
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14910	Fabrication of band gap engineered nanostructured tri-metallic (Mn-Co-Ti) oxide thin films. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
14911	Recent Trends and Developments in Transition Metal Dichalcogenide Photoelectrodes for Solar-to-Hydrogen Conversion. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	1.1	1
14912	Preparation of Graphene/N-TiO ₂ Nanoclusters by One Step Anodic Oxidation for Visible-Light-Driven Hydrogen Production. <i>Materials Science Forum</i> , 0, 913, 786-795.	0.3	2
14913	Synthesis of a ZnO/CdS/TiO ₂ Composite with Enhanced Photocatalytic Activity and Stability by a Simple Solution-Based Method. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1916-1920.	1.0	4
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14915	Enhancing the photoelectrochemical performance of BiVO ₄ by decorating only its (040) facet with self-assembled Ag@AgCl QDs. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2425-2434.	1.2	8
14916	Underwater wettability of oleic acid on TiO ₂ photocatalyst surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 548, 32-36.	2.3	4
14918	New insight into the selective photocatalytic oxidation of RhB through a strategy of modulating radical generation. <i>RSC Advances</i> , 2018, 8, 13625-13634.	1.7	30
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14920	Interfacing Photosynthetic Membrane Protein with Mesoporous WO ₃ Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018, 14, e1800104.	5.2	14
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14922	Modification of the Chemisorption Properties of Epitaxial Delafossite CuFeO ₂ Thin Films by Substituting Fe for Ga in the Crystal Structure. <i>Topics in Catalysis</i> , 2018, 61, 1193-1200.	1.3	1
14923	Novel Cu ₃ P/g-C ₃ N ₄ p-n heterojunction photocatalysts for solar hydrogen generation. <i>Science China Materials</i> , 2018, 61, 861-868.	3.5	84
14924	A facile and scalable route for synthesizing ultrathin carbon nitride nanosheets with efficient solar hydrogen evolution. <i>Carbon</i> , 2018, 136, 160-167.	5.4	33
14925	Enhancing photocatalytic activities of titanium dioxide via well-dispersed copper nanoparticles. <i>Chemosphere</i> , 2018, 204, 193-201.	4.2	30

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14927	Effect of Surface Trap States on Photocatalytic Activity of Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9312-9319.	1.5	22
14928	Deciphering Design Principles of Förster Resonance Energy Transfer-Based Protease Substrates: Thermolysin-Like Protease from <i>Geobacillus stearothermophilus</i> as a Test Case. <i>ACS Omega</i> , 2018, 3, 4148-4156.	1.6	7
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14930	Efficient visible light-driven water oxidation and proton reduction by an ordered covalent triazine-based framework. <i>Energy and Environmental Science</i> , 2018, 11, 1617-1624.	15.6	212
14931	ZnO nanosheets with atomically thin ZnS overlayers for photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9057-9063.	5.2	59
14932	Recent Progress in Photoelectrochemical Water Splitting Activity of WO ₃ Photoanodes. <i>Topics in Catalysis</i> , 2018, 61, 1043-1076.	1.3	78
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14935	Synthesis of AgI/Bi ₂ MoO ₆ nano-heterostructure with enhanced visible-light photocatalytic property. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 235-241.	1.8	12
14936	Hierarchical CdMoO ₄ nanowire-graphene composite for photocatalytic hydrogen generation under natural sunlight. <i>RSC Advances</i> , 2018, 8, 13764-13771.	1.7	13
14937	Photoelectrode for water splitting: Materials, fabrication and characterization. <i>Science China Materials</i> , 2018, 61, 806-821.	3.5	44
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14940	Influence of the morphology of ZnO nanowires on the photoelectrochemical water splitting efficiency. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4866-4879.	3.8	51
14941	Excess electrons in reduced rutile and anatase TiO ₂ . <i>Surface Science Reports</i> , 2018, 73, 58-82.	3.8	106
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14945	Visible-light induced photocatalysis of $\text{AgCl}@ \text{Ag}/\text{titanate}$ nanotubes/nitrogen-doped reduced graphite oxide composites. <i>Applied Surface Science</i> , 2018, 442, 547-555.	3.1	23
14946	Enhanced Z-scheme visible light photocatalytic hydrogen production over $\text{Bi}_2\text{O}_3/\text{CZS}$ heterostructure. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4256-4264.	3.8	24
14947	$\text{WO}_3/\text{g-C}_3\text{N}_4$ two-dimensional composites for visible-light driven photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4845-4855.	3.8	96
14948	Size- and composition-dependent photocatalytic hydrogen production over colloidal $\text{Cd}_{1-x}\text{Zn}_x\text{Se}$ nanocrystals. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13911-13920.	3.8	9
14949	Enhanced photoelectrochemical water splitting performance of Fe_2O_3 nanostructures modified with Sb_2S_3 and cobalt phosphate. <i>Journal of Alloys and Compounds</i> , 2018, 742, 918-927.	2.8	101
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14952	Electrochemical Analysis of Carbon Nanosheet Catalyst on Silicon Photocathode for Hydrogen Generation. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 356-362.	1.0	4
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14956	Fabrication of $\text{In}_2\text{S}_3/\text{NaTaO}_3$ composites for enhancing the photocatalytic activity toward the degradation of tetracycline. <i>New Journal of Chemistry</i> , 2018, 42, 5052-5058.	1.4	52
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14959	High photocatalytic performance of ruthenium complexes sensitizing $\text{g-C}_3\text{N}_4/\text{TiO}_2$ hybrid in visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 366-375.	10.8	58
14960	$\text{OD}(\text{MoS}_2)/2\text{D}(\text{g-C}_3\text{N}_4)$ heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 64-74.	10.8	298
14961	AgIn_5S_8 nanoparticles anchored on 2D layered ZnIn_2S_4 to form $\text{OD}/2\text{D}$ heterojunction for enhanced visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 512-518.	10.8	129

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14963	Deficient Bi ₂₄ O ₃₁ Br ₁₀ as a highly efficient photocatalyst for selective oxidation of benzyl alcohol into benzaldehyde under blue LED irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 142-151.	10.8	104
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14965	Flake-like NiO/WO ₃ p-n heterojunction photocathode for photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 440, 1101-1106.	3.1	55
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14967	A DFT study on modification mechanism of (N,S) interstitial co-doped rutile TiO ₂ . <i>Chemical Physics Letters</i> , 2018, 695, 8-18.	1.2	17
14968	Imitation of phase I metabolism reactions of MAO-A inhibitors by titanium dioxide photocatalysis. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 114, 391-400.	1.9	11
14969	Facile synthesis of core-shell Cu ₂ O@ ZnO structure with enhanced photocatalytic H ₂ production. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 116, 126-130.	1.9	12
14970	Tandem perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 84, 89-110.	8.2	93
14971	Black Si-doped TiO ₂ nanotube photoanode for high-efficiency photoelectrochemical water splitting. <i>RSC Advances</i> , 2018, 8, 5652-5660.	1.7	48
14972	Efficient photocatalytic degradation of gaseous acetaldehyde over ground Rh-Sb co-doped SrTiO ₃ under visible light irradiation. <i>RSC Advances</i> , 2018, 8, 5331-5337.	1.7	23
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14974	Thermal-, photo- and electron-induced reactivity of hydrogen species on rutile TiO ₂ (110) surface: Role of oxygen vacancy. <i>Chinese Chemical Letters</i> , 2018, 29, 752-756.	4.8	27
14975	Photocatalytic synthesis of Schiff base compounds in the coupled system of aromatic alcohols and nitrobenzene using CdXZn ¹⁺ XS photocatalysts. <i>Journal of Catalysis</i> , 2018, 359, 151-160.	3.1	46
14976	Hydrogen evolution by a photoelectrochemical cell based on a Cu ₂ O-ZnO-[FeFe] hydrogenase electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 366, 27-33.	2.0	15
14977	Optical absorption and multivalent characteristics of ferrotitanate semiconductor FeNaTi ₃ O ₈ . <i>Physica B: Condensed Matter</i> , 2018, 534, 120-124.	1.3	1
14978	Study about the highest connected twin Keggin POMs based hybrid compound: Synthesis, PPy loading, physical absorption and visible-light photogradation for organic pollutant. <i>Polyhedron</i> , 2018, 144, 240-248.	1.0	4
14979	Enhanced Solar Hydrogen Evolution over <i>In Situ</i> Gold-Platinum Bimetallic Nanoparticle-Loaded Ti ³⁺ Self-Doped Titania Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3049-3059.	3.2	42

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14981	Bimetallic Au-Pd nanoparticles on 2D supported graphitic carbon nitride and reduced graphene oxide sheets: A comparative photocatalytic degradation study of organic pollutants in water. <i>Chemosphere</i> , 2018, 197, 817-829.	4.2	46
14982	C2N/WS2 van der Waals type-II heterostructure as a promising water splitting photocatalyst. <i>Journal of Catalysis</i> , 2018, 359, 143-150.	3.1	229
14983	Influence of fluorine on the synthesis of anatase TiO ₂ for photocatalytic partial oxidation: are exposed facets the main actors?. <i>Catalysis Science and Technology</i> , 2018, 8, 1606-1620.	2.1	25
14984	Effect of electron transfer on the photocatalytic hydrogen evolution efficiency of faceted TiO ₂ /CdSe QDs under visible light. <i>New Journal of Chemistry</i> , 2018, 42, 4811-4817.	1.4	20
14985	MoS ₂ Quantum Dots Modified Covalent Triazine Based Frameworks for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 1108-1113.	3.6	80
14986	Highly loaded PbS/Mn-doped CdS quantum dots for dual application in solar-to-electrical and solar-to-chemical energy conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 409-417.	10.8	59
14987	MoS ₂ -MoO _{3-x} hybrid cocatalyst for effectively enhanced H ₂ production photoactivity of AgIn ₅ S ₈ nano-octahedrons. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 39-46.	10.8	55
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14990	Molybdenum diselenide nanosheet/carbon nanofiber heterojunctions: Controllable fabrication and enhanced photocatalytic properties with a broad-spectrum response from visible to infrared light. <i>Journal of Colloid and Interface Science</i> , 2018, 518, 1-10.	5.0	28
14991	Enhanced Photoelectrochemical Water Splitting of Photoelectrode Simultaneously Decorated with Cocatalysts Based on Spatial Charge Separation and Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3565-3574.	3.2	80
14992	Water Resistant Cellulose " Titanium Dioxide Composites for Photocatalysis. <i>Scientific Reports</i> , 2018, 8, 2306.	1.6	59
14993	Synthesis of carbon doped KTaO ₃ and its enhanced performance in photocatalytic H ₂ generation. <i>Catalysis Communications</i> , 2018, 109, 6-9.	1.6	45
14994	Novel one-step synthesis of sulfur doped-TiO ₂ by flame spray pyrolysis for visible light photocatalytic degradation of acetaldehyde. <i>Chemical Engineering Journal</i> , 2018, 339, 249-258.	6.6	109
14995	Conformal deposition of atomic TiO ₂ layer on chalcogenide nanorod with excellent activity and durability towards solar H ₂ generation. <i>Chemical Engineering Journal</i> , 2018, 341, 335-343.	6.6	26
14996	One step solvothermal synthesis of Bi/BiPO ₄ /Bi ₂ WO ₆ heterostructure with oxygen vacancies for enhanced photocatalytic performance. <i>Ceramics International</i> , 2018, 44, 6918-6925.	2.3	42
14997	Solar water splitting with nanostructured hematite: The role of annealing-temperature. <i>Electrochimica Acta</i> , 2018, 266, 431-440.	2.6	31

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14999	Kilogram-scale production of highly active chalcogenide photocatalyst for solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13738-13744.	3.8	10
15000	Visible photocatalytic performance of nanostructured molybdenum-doped Ag ₃ PO ₄ : Doping approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 587-594.	2.0	16
15001	A facile method of preparing sandwich layered TiO ₂ in between montmorillonite sheets and its enhanced UV-light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 121-129.	2.0	20
15002	Bimetal-organic frameworks derived carbon doped ZnO/Co ₃ O ₄ heterojunction as visible-light stabilized photocatalysts. <i>Materials Science in Semiconductor Processing</i> , 2018, 79, 24-31.	1.9	20
15003	44Ti self-diffusion in nanocrystalline thin TiO ₂ films produced by a low temperature wet chemical process. <i>Scripta Materialia</i> , 2018, 149, 31-35.	2.6	3
15004	Advances in approaches and methods for self-cleaning of solar photovoltaic panels. <i>Solar Energy</i> , 2018, 162, 597-619.	2.9	172
15005	Direct Interfacial Electron Transfer from High-Potential Porphyrins into Semiconductor Surfaces: A Comparison of Linkers and Anchoring Groups. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13529-13539.	1.5	31
15006	Enhanced Charge Injection and Collection of Niobium-Doped TiO ₂ /Gradient Tungsten-Doped BiVO ₄ Nanowires for Efficient Solar Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 1218-1225.	2.5	17
15007	In Situ Preparation of CoP@CdS and Its Catalytic Activity toward Controlling Nitro Reduction under Visible-Light Irradiation. <i>ACS Omega</i> , 2018, 3, 1904-1911.	1.6	14
15008	Scalable and clean exfoliation of graphitic carbon nitride in NaClO solution: enriched surface active sites for enhanced photocatalytic H ₂ evolution. <i>Green Chemistry</i> , 2018, 20, 1354-1361.	4.6	82
15009	Dual roles of a fluoride-doped SnO ₂ /TiO ₂ bilayer based on inverse opal/nanoparticle structure for water oxidation. <i>Journal of the Korean Physical Society</i> , 2018, 72, 260-269.	0.3	3
15010	Reduced Graphene Oxide as a Catalyst Binder: Greatly Enhanced Photoelectrochemical Stability of Cu(In,Ga)Se ₂ Photocathode for Solar Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1705136.	7.8	46
15011	Engineering oxygen vacancy on rutile TiO ₂ for efficient electron-hole separation and high solar-driven photocatalytic hydrogen evolution. <i>Science China Materials</i> , 2018, 61, 822-830.	3.5	65
15012	One-dimensional Au/SiC heterojunction nanocomposites with enhanced photocatalytic and photoelectrochemical performances: Kinetics and mechanism insights. <i>Electrochimica Acta</i> , 2018, 267, 24-33.	2.6	24
15013	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , 2018, 2, 537-548.	11.7	102
15014	The role of graphene as an overlayer on nanostructured hematite photoanodes for improved solar water oxidation. <i>Materials Today Energy</i> , 2018, 8, 8-14.	2.5	15
15015	Hierarchical TiO ₂ nanowire/microflower photoanode modified with Au nanoparticles for efficient photoelectrochemical water splitting. <i>Catalysis Science and Technology</i> , 2018, 8, 1395-1403.	2.1	32

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15017	Development of Cotton Fabrics with Durable UV Protective and Self-cleaning Property by Deposition of Low TiO ₂ Levels through Sol-gel Process. <i>Photochemistry and Photobiology</i> , 2018, 94, 503-511.	1.3	30
15018	3D flowerlike TiO ₂ /GO and TiO ₂ /MoS ₂ heterostructures with enhanced photoelectrochemical water splitting. <i>Journal of Materials Science</i> , 2018, 53, 7609-7620.	1.7	19
15019	Water oxidation reaction promoted by MIL-101(Fe) photoanode under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2018, 44, 4755-4764.	1.3	10
15020	One-Step Electrodeposition of Nanocrystalline TiO ₂ Films with Enhanced Photoelectrochemical Performance and Charge Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 851-858.	2.5	32
15021	Microbial fuel cell assisted band gap narrowed TiO ₂ for visible light-induced photocatalytic activities and power generation. <i>Scientific Reports</i> , 2018, 8, 1723.	1.6	91
15022	Insights into the enhanced photoelectrochemical performance of hydrothermally controlled hematite nanostructures for proficient solar water oxidation. <i>Dalton Transactions</i> , 2018, 47, 4076-4086.	1.6	9
15023	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie</i> , 2018, 130, 3551-3556.	1.6	102
15024	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3493-3498.	7.2	341
15025	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 2253-2276.	5.5	773
15026	Three-dimensional TiO ₂ /Au nanoparticles for plasmon enhanced photocatalysis. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 034005.	1.0	7
15027	Functionalization of Metal-Organic Frameworks for Photoactive Materials. <i>Advanced Materials</i> , 2018, 30, e1705634.	11.1	133
15028	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient N-Doped Hierarchical Structure for Visible-Light Harvesting. <i>ChemistryOpen</i> , 2018, 7, 131-135.	0.9	5
15029	Fabrication and Photocatalytic Application of Aromatic Ring Functionalized Melem Oligomers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3506-3512.	1.5	16
15030	Phase-controllable synthesis of MOF-templated maghemite-carbonaceous composites for efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3571-3582.	5.2	42
15031	Polystyrene nanoparticle-templated hollow titania nanosphere monolayers as ordered scaffolds. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2502-2508.	2.7	18
15032	Artificial Photosynthesis: Taking a Big Leap for Powering the Earth by Harnessing Solar Energy. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700451.	1.2	10
15033	Delocalized Impurity Phonon Induced Electron-Hole Recombination in Doped Semiconductors. <i>Nano Letters</i> , 2018, 18, 1592-1599.	4.5	86

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15034	Critical role and modification of surface states in hematite films for enhancing oxygen evolution activity. <i>Journal of Materials Research</i> , 2018, 33, 455-466.	1.2	35
15035	Nonmetal element doped g-C ₃ N ₄ with enhanced H ₂ evolution under visible light irradiation. <i>Journal of Materials Research</i> , 2018, 33, 1268-1278.	1.2	35
15036	Experimental study of direct solar photocatalytic water splitting for hydrogen production under natural circulation conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13727-13737.	3.8	17
15037	Photoelectrochemical performances of the cubic AgSnSe ₂ thin film electrodes created using the selenization of thermal evaporated Ag-Sn metal precursors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 85, 56-65.	2.7	2
15038	Generation of hydrogen under visible light irradiation with enhanced photocatalytic activity of Bi ₂ WO ₆ /Cu _{1.8} Se for organic pollutants under Vis-NIR light reign. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3015-3025.	1.9	19
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15138	Facile fabrication of Si-doped TiO ₂ nanotubes photoanode for enhanced photoelectrochemical hydrogen generation. <i>Applied Surface Science</i> , 2018, 436, 125-133.	3.1	22
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15146	Vertically-heterostructured TiO ₂ -Ag-rGO ternary nanocomposite constructed with {001} faceted TiO ₂ nanosheets for enhanced Pt-free hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1508-1515.	3.8	25
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15163	Ternary non-noble metal zinc-nickel-cobalt carbonate hydroxide cocatalysts toward highly efficient photoelectrochemical water splitting. <i>Journal of Materials Science and Technology</i> , 2018, 34, 899-904.	5.6	28
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15165	Covalently bonded 2D/2D O-g-C ₃ N ₄ /TiO ₂ heterojunction for enhanced visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1130-1138.	10.8	129
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15243	Environmental Catalysis. <i>Nanostructure Science and Technology</i> , 2018, , 61-99.	0.1	0
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15271	<i>In situ</i> glow discharge plasma electrolytic synthesis of reduced TiO ₂ for enhanced visible light photocatalysis. <i>Materials Research Express</i> , 2018, 5, 055022.	0.8	7
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15289	Novel Photocatalyst Based on Metastable ZrSnO ₄ Solid for Hydrogen and Oxygen Evolution. <i>Chemistry Letters</i> , 2018, 47, 723-725.	0.7	4
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15292	MOF-Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800101.	10.2	143
15293	Growth and physical investigations of sprayed ZnMoO ₄ thin films along with wettability tests. <i>Physica B: Condensed Matter</i> , 2018, 539, 51-60.	1.3	6
15294	WO ₃ nanoflakes decorated with CuO clusters for enhanced photoelectrochemical water splitting. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 200-204.	1.8	20
15295	Interface Engineering and its Effect on WO ₃ -Based Photoanode and Tandem Cell. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12639-12650.	4.0	54
15296	A highly efficient Cu(In,Ga)(S,Se) ₂ photocathode without a hetero-materials overlayer for solar-hydrogen production. <i>Scientific Reports</i> , 2018, 8, 5182.	1.6	13
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15578	<i>In situ</i> synthesis of novel Cu ₂ CO ₃ (OH) ₂ decorated 2D TiO ₂ nanosheets with efficient photocatalytic H ₂ evolution activity. <i>Dalton Transactions</i> , 2018, 47, 348-356.	1.6	25
15579	Enhanced photoelectrochemical properties of ZnO nanowire arrays annealed in air. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4058-4064.	1.1	7
15580	Surface-Plasmon-Driven Hot Electron Photochemistry. <i>Chemical Reviews</i> , 2018, 118, 2927-2954.	23.0	966
15581	[Ti ₈ Zr ₂ O ₁₂ (COO) ₁₆] Cluster: An Ideal Inorganic Building Unit for Photoactive Metal-Organic Frameworks. <i>ACS Central Science</i> , 2018, 4, 105-111.	5.3	204
15582	A highly efficient nanoporous BiVO ₄ photoelectrode with enhanced interface charge transfer Co-catalyzed by molecular catalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 504-511.	10.8	40
15583	Investigation of the adsorption of ozone molecules on TiO ₂ /WSe ₂ nanocomposites by DFT computations: Applications to gas sensor devices. <i>Applied Surface Science</i> , 2018, 436, 27-41.	3.1	90
15584	Species, engineering and characterizations of defects in TiO ₂ -based photocatalyst. <i>Chinese Chemical Letters</i> , 2018, 29, 671-680.	4.8	67
15585	Insight into enhanced photocatalytic H ₂ production by Ni(OH) ₂ -decorated ZnxCd _{1-x} S nanocomposite photocatalysts. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2551-2557.	2.8	29
15586	<i>In situ</i> formation of NbO _x @NbN microcomposites: seeking potential in photocatalytic and Li-ion battery applications. <i>New Journal of Chemistry</i> , 2018, 42, 1300-1308.	1.4	8
15587	Enhanced photocatalytic H ₂ -production activity of C-dots modified g-C ₃ N ₄ /TiO ₂ nanosheets composites. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 866-876.	5.0	178
15588	Plasmonic stimulated photocatalytic/electrochemical hydrogen evolution from water by (001) faceted and bimetallic loaded titania nanosheets under sunlight irradiation. <i>Journal of Cleaner Production</i> , 2018, 175, 394-401.	4.6	30
15589	Line defect Ce ³⁺ induced Ag/CeO ₂ /ZnO nanostructure for visible-light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 499-506.	2.0	73
15590	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.	1.5	46
15591	Controlled growth of vertically aligned ultrathin In ₂ S ₃ nanosheet arrays for photoelectrochemical water splitting. <i>Nanoscale</i> , 2018, 10, 1153-1161.	2.8	54
15592	Constructing a novel strategy for controllable synthesis of corrosion resistant Ti ³⁺ self-doped titanium-silicon materials with efficient hydrogen evolution activity from simulated seawater. <i>Nanoscale</i> , 2018, 10, 2275-2284.	2.8	39
15593	Carbothermal Reduction Induced Ti ³⁺ Self-Doped TiO ₂ /GQD Nanohybrids for High-Performance Visible Light Photocatalysis. <i>Chemistry - A European Journal</i> , 2018, 24, 4390-4398.	1.7	51
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15597	SURFACE ENGINEERING OF SEMICONDUCTORS FOR PHOTOELECTROCHEMICAL WATER SPLITTING. , 2018, , 223-249.		0
15598	PHOTOANODIC AND PHOTOCATHODIC MATERIALS APPLIED FOR FREE-RUNNING SOLAR WATER SPLITTING DEVICES. , 2018, , 251-289.		0
15599	SOFT X-RAY SPECTROSCOPY ON PHOTOCATALYSIS. , 2018, , 343-360.		0
15600	PHOTOELECTROCHEMICAL TOOLS FOR THE ASSESSMENT OF ENERGY CONVERSION DEVICES. , 2018, , 361-395.		0
15601	Advances in Far-Ultraviolet Spectroscopy in the Solid and Liquid States. , 2018, , 251-285.		12
15602	Co-doped TiO ₂ nanostructures as a strong antibacterial agent and self-cleaning cover: Synthesis, characterization and investigation of photocatalytic activity under UV irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 512-520.	1.7	24
15603	Î ² -NiS modified CdS nanowires for photocatalytic H ₂ evolution with exceptionally high efficiency. <i>Chemical Science</i> , 2018, 9, 1574-1585.	3.7	112
15604	Facile electrodeposition of cobalt hydroxide on anodic TiO ₂ nanotubes arrays for enhanced photoelectrochemical application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 200-205.	2.0	9
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15608	Enhancing photoelectrochemical water oxidation efficiency via self-catalyzed oxygen evolution: A case study on TiO ₂ . <i>Nano Energy</i> , 2018, 44, 411-418.	8.2	43
15609	Solvent free mechanochemical synthesis of MnO ₂ for the efficient degradation of Rhodamine-B. <i>Ceramics International</i> , 2018, 44, 4694-4698.	2.3	27
15610	Theoretical Insight into Charge-Recombination Center in Ta ₃ N ₅ Photocatalyst: Interstitial Hydrogen. <i>Journal of Physical Chemistry C</i> , 2018, 122, 489-494.	1.5	9
15611	Noble-metal-free ternary CNâ€“ZCSâ€“NiS nanocomposites for enhanced solar photocatalytic H ₂ -production activity. <i>Dalton Transactions</i> , 2018, 47, 1171-1178.	1.6	20
15612	CdS/CdSe co-sensitized brookite H:TiO ₂ nanostructures: Charge carrier dynamics and photoelectrochemical hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 379-385.	10.8	116

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15614	One-dimensional Mg _x Ti _y O _{x+2y} nanostructures: General synthesis and enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 332-339.	10.8	11
15615	Single-step strategy for the fabrication of GaON/ZnO nanoarchitected photoanode their experimental and computational photoelectrochemical water splitting. <i>Nano Energy</i> , 2018, 44, 23-33.	8.2	47
15616	Study on cytotoxicity and photocatalytic properties of different titania/hydroxyapatite nanocomposites prepared with a combination of sol-gel and precipitation methods. <i>Research on Chemical Intermediates</i> , 2018, 44, 1945-1962.	1.3	9
15617	An in situ mediator-free route to fabricate Cu ₂ O/g-C ₃ N ₄ type-II heterojunctions for enhanced visible-light photocatalytic H ₂ generation. <i>Applied Surface Science</i> , 2018, 434, 1224-1231.	3.1	96
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15619	A robust ruthenium complex with nonyl-substituted bpy ligand for dye-sensitized photoelectrochemical cell application. <i>Inorganica Chimica Acta</i> , 2018, 471, 467-474.	1.2	9
15620	Copper-doped flower-like molybdenum disulfide/bismuth sulfide photocatalysts for enhanced solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 748-756.	3.8	48
15621	Charge carrier kinetics in hematite with NiFeO _x coating in aqueous solutions: Dependence on bias voltage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 344-348.	2.0	30
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15625	MoSe _x O _y -Coated 1D TiO ₂ Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	1.9	16
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15627	Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. <i>Nanoscale Horizons</i> , 2018, 3, 90-204.	4.1	309
15628	3D graphene foam/ZnO nanorods array mixed-dimensional heterostructure for photoelectrochemical biosensing. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 364-369.	3.0	13
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15650	Cobalt manganese spinel as an effective cocatalyst for photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 886-894.	10.8	78
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15653	Structural, optical and electrical properties of SnO ₂ doped TiO ₂ synthesized by the Solâ€“Gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3095-3103.	1.1	12
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15657	Structural and electronic properties of oxygen defective and Se-doped p-type BiVO ₄ (001) thin film for the applications of photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 895-903.	10.8	104
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15662	Influences of inorganic binder on photocatalytic oxidation (PCO) and degradation of nano/micro TiO ₂ containing acrylic composites. <i>Progress in Organic Coatings</i> , 2018, 115, 1-8.	1.9	26
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15664	Investigation of amino acids as templates for the solâ€“gel synthesis of mesoporous nano TiO ₂ for photocatalysis. <i>Monatshefte FÃ¼r Chemie</i> , 2018, 149, 11-18.	0.9	5
15665	Au Nanorod Photosensitized La ₂ Ti ₂ O ₇ Nanosteps: Successive Surface Heterojunctions Boosting Visible to Near-Infrared Photocatalytic H ₂ Evolution. <i>ACS Catalysis</i> , 2018, 8, 122-131.	5.5	114
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15668	Constructing h-BN/Bi ₂ WO ₆ Quantum Dot Hybrid with Fast Charge Separation and Enhanced Photoelectrochemical Performance by using h-BN for Hole Transfer. <i>ChemElectroChem</i> , 2018, 5, 300-308.	1.7	21
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15670	Recent developments in the design of photoreactors for solar energy conversion from water splitting and CO ₂ reduction. <i>Applied Catalysis A: General</i> , 2018, 550, 122-141.	2.2	89
15671	Combining water reduction and liquid fuel oxidization by nickel hydroxide for flexible hydrogen production. <i>Energy Storage Materials</i> , 2018, 11, 260-266.	9.5	24
15672	Charge transfer and intrinsic electronic properties of rGO-WO ₃ nanostructures for efficient photoelectrochemical and photocatalytic applications. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 136-146.	1.9	47
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15676	Enhanced optical and photoelectrochemical performance of single-crystalline TiO ₂ nanorod arrays with exposed {001} facets sensitized with CdS nanosheets. <i>Ionics</i> , 2018, 24, 1537-1544.	1.2	4
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15682	Sodium-doped carbon nitride nanotubes for efficient visible light-driven hydrogen production. <i>Nano Research</i> , 2018, 11, 2295-2309.	5.8	94
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15686	Pt nanoparticle decorated InP nanopore arrays for enhanced photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2018, 736, 80-86.	2.8	10
15687	Dissociative Water Adsorption on Gas-Phase Titanium Dioxide Cluster Anions Probed with Infrared Photodissociation Spectroscopy. <i>Topics in Catalysis</i> , 2018, 61, 92-105.	1.3	21
15688	1D Bi ₂ S ₃ nanorod/2D e-WS ₂ nanosheet heterojunction photocatalyst for enhanced photocatalytic activity. <i>Journal of Solid State Chemistry</i> , 2018, 258, 526-535.	1.4	51
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15690	Recent advances in photocatalysis for environmental applications. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3531-3555.	3.3	536
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17986	The Role of Polarization in Photocatalysis. <i>Angewandte Chemie</i> , 2019, 131, 10164-10176.	1.6	47
17987	Ab initio nonadiabatic molecular dynamics investigations on the excited carriers in condensed matter systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1411.	6.2	194
17988	Colorful TiO ₂ -x microspheres cooperating with titanium Schiff base complex for efficient visible light photocatalysts. <i>Catalysis Today</i> , 2019, 335, 550-556.	2.2	18
17989	Visible-light-driven photoelectrochemical water oxidation with Al doped TiO ₂ nanorod arrays. <i>Journal of Alloys and Compounds</i> , 2019, 790, 99-108.	2.8	13
17990	In situ fabrication of a 2D Ni ₂ P/red phosphorus heterojunction for efficient photocatalytic H ₂ evolution. <i>Materials Research Bulletin</i> , 2019, 115, 27-36.	2.7	39
17991	Insulating titanium oxynitride for visible light photocatalysis. <i>Physical Review B</i> , 2019, 99, .	1.1	12
17992	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NO _x Removal. <i>Catalysts</i> , 2019, 9, 170.	1.6	39
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18001	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8550-8558.	5.2	19
18002	Challenges of Synthesis and Environmental Applications of Metal-Free Nano-heterojunctions. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 107-138.	0.3	0
18003	Novelty in Designing of Photocatalysts for Water Splitting and CO ₂ Reduction. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 41-65.	0.3	1
18004	Improving hydrogen evolution activity of perovskite BaTiO ₃ with Mo doping: Experiments and first-principles analysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11695-11704.	3.8	34
18005	Photoelectrochemical hydrogen generation using graded In-content InGaN photoelectrode structures. <i>Nano Energy</i> , 2019, 59, 569-573.	8.2	18
18006	Role of SnS ₂ in 2D SnS ₂ /TiO ₂ Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 2144-2151.	2.4	69
18007	The doping of phosphorus atoms into graphitic carbon nitride for highly enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11506-11512.	5.2	68
18008	Multivariate comparison of photocatalytic properties of thirteen nanostructured metal oxides for water purification. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 851-864.	0.9	9
18009	FeSe nanorods composited g-C ₃ N ₄ with enhanced photocatalytic efficiency. <i>Royal Society Open Science</i> , 2019, 6, 181886.	1.1	6
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18022	One-pot synthesis of peony-like Bi ₂ S ₃ /BiVO ₄ (040) with high photocatalytic activity for glyphosate degradation under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2019, 40, 580-589.	6.9	38
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18069	Novel Mixed-Dimensional Photocatalysts Based on 3D Graphene Aerogel Embedded with TiO ₂ /MoS ₂ Hybrid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10949-10955.	1.5	39

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18111	Photocatalytic and Catalytic Reactions in Gas-Solid and in Liquid-Solid Systems. , 2019, , 153-176.		3
18112	Special Needs and Characteristic Features of (Photo)catalytic Reactors with a Review of the Proposed Solutions. , 2019, , 177-213.		1
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18115	Kinetics and mechanism of photocatalytic degradation of methyl orange in water by mesoporous Nd-TiO ₂ -SBA-15 nanocatalyst. <i>Environmental Pollution</i> , 2019, 248, 516-525.	3.7	59
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18414	Facet effect on the photoelectrochemical performance of a WO ₃ /BiVO ₄ heterojunction photoanode. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 227-239.	10.8	141
18415	2D MOFs enriched g-C ₃ N ₄ nanosheets for highly efficient charge separation and photocatalytic hydrogen evolution from water. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2797-2810.	3.8	60
18416	A review on photoelectrochemical hydrogen production systems: Challenges and future directions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2474-2507.	3.8	169
18417	Preparation of interstitial carbon doped BiOI for enhanced performance in photocatalytic nitrogen fixation and methyl orange degradation. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 563-574.	5.0	205
18418	ZnO rod decorated with Ag nanoparticles for enhanced photocatalytic degradation of methylene blue. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 129, 46-53.	1.9	69

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18423	Application of quantitative light-induced fluorescence technology for tooth bleaching treatment and its assessment: An in vitro study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 208-213.	1.3	6
18424	Introduction of oxygen vacancies into hematite in local reducing atmosphere for solar water oxidation. <i>Solar Energy</i> , 2019, 179, 99-105.	2.9	14
18425	Core-shell type Tourmaline@ZnO composites equipped with carbon dots for high efficiency photocatalyst. <i>Surface and Coatings Technology</i> , 2019, 359, 190-196.	2.2	20
18426	Enhanced solar light driven activity of p-n heterojunction for water oxidation induced by deposition of Cu ₂ O on Bi ₂ O ₃ microplates. <i>Sustainable Materials and Technologies</i> , 2019, 19, e00088.	1.7	6
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18432	Switching on efficient photocatalytic water oxidation reactions over CaNbO ₂ N by Mg modifications under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 10-19.	10.8	22
18433	Tuning CuOx-TiO ₂ interaction and photocatalytic hydrogen production of CuOx/TiO ₂ photocatalysts via TiO ₂ morphology engineering. <i>Applied Surface Science</i> , 2019, 473, 500-510.	3.1	51
18434	Rapid fabrication of KTa _{0.75} Nb _{0.25} /g-C ₃ N ₄ composite via microwave heating for efficient photocatalytic H ₂ evolution. <i>Fuel</i> , 2019, 241, 1-11.	3.4	101
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18492	Nanomaterials for Hydrogen Production Through Photocatalysis. <i>Energy, Environment, and Sustainability</i> , 2019, , 251-273.	0.6	1
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18686	Bio-surfactant assisted solvothermal synthesis of Magnetic retrievable Fe ₃ O ₄ @rGO nanocomposite for photocatalytic reduction of 2-nitrophenol and degradation of TCH under visible light illumination. <i>Applied Surface Science</i> , 2019, 466, 679-690.	3.1	41
18687	High sub-band gap response of TiO ₂ nanorod arrays for visible photoelectrochemical water oxidation. <i>Applied Surface Science</i> , 2019, 465, 192-200.	3.1	24
18688	Facile synthesis of cobalt-doped (Zn,Ni)(O,S) as an efficient photocatalyst for hydrogen production. <i>Journal of the Energy Institute</i> , 2019, 92, 1428-1439.	2.7	37

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18691	Constructing a system for effective utilization of photogenerated electrons and holes: Photocatalytic selective transformation of aromatic alcohols to aromatic aldehydes and hydrogen evolution over Zn ₃ In ₂ S ₆ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 302-311.	10.8	61
18692	A Z-scheme mechanism of N-ZnO/g-C ₃ N ₄ for enhanced H ₂ evolution and photocatalytic degradation. <i>Applied Surface Science</i> , 2019, 466, 133-140.	3.1	153
18693	In-situ synthesis of Au decorated InP nanopore arrays for enhanced photoelectrochemical hydrogen production. <i>Journal of Alloys and Compounds</i> , 2019, 774, 610-617.	2.8	2
18694	Mesoporous CuO-graphene coating of mesoporous TiO ₂ for enhanced visible-light photocatalytic activity of organic dyes. <i>Separation and Purification Technology</i> , 2019, 211, 646-657.	3.9	36
18695	High-radiance LED-driven fluidized bed photoreactor for the complete oxidation of n-hexane in air. <i>Chemical Engineering Journal</i> , 2019, 358, 1363-1370.	6.6	24
18696	Engineered nanomaterials (ENMs) and their role at the nexus of Food, Energy, and Water. <i>Materials Science for Energy Technologies</i> , 2019, 2, 29-40.	1.0	44
18697	Two-dimensional g-C ₃ N ₄ /InSe heterostructure as a novel visible-light photocatalyst for overall water splitting: a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 015304.	1.3	25
18698	A review of recent applications of porous metals and metal oxide in energy storage, sensing and catalysis. <i>Journal of Materials Science</i> , 2019, 54, 949-973.	1.7	121
18699	Construction of In ₂ Se ₃ /MoS ₂ heterojunction as photoanode toward efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2019, 358, 752-758.	6.6	42
18700	Cyano group modified carbon nitride with enhanced photoactivity for selective oxidation of benzylamine. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 67-75.	10.8	87
18701	Efficient suspension plasma spray fabrication of black titanium dioxide coatings with visible light absorption performances. <i>Ceramics International</i> , 2019, 45, 930-935.	2.3	16
18702	Chalcogens doped BaTiO ₃ for visible light photocatalytic hydrogen production from water splitting. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 208, 65-72.	2.0	36
18703	The enhancement of photocatalytic hydrogen production via Ti ³⁺ self-doping black TiO ₂ /g-C ₃ N ₄ hollow core-shell nano-heterojunction. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 92-99.	10.8	416
18704	Fabrication and photoelectrochemical performance of Ag/AgBr sensitized TiO ₂ nanotube arrays for environmental and energy applications. <i>Separation and Purification Technology</i> , 2019, 209, 782-788.	3.9	35
18705	Effect of alkaline treatment on photochemical activity and stability of Zn _{0.3} Cd _{0.7} S. <i>Applied Surface Science</i> , 2019, 465, 459-469.	3.1	36
18706	Defect engineering: A versatile tool for tuning the activation of key molecules in photocatalytic reactions. <i>Journal of Energy Chemistry</i> , 2019, 37, 43-57.	7.1	143
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18709	Facile fabrication of Ag ₂ O/Bi ₂ GeO ₂ O heterostructure with enhanced visible-light photocatalytic activity for the degradation of various antibiotics. <i>Journal of Alloys and Compounds</i> , 2019, 773, 1089-1098.	2.8	56
18710	Solar-responsive photocatalytic activity of amorphous TiO ₂ nanotube-array films. <i>Materials Science in Semiconductor Processing</i> , 2019, 89, 161-169.	1.9	17
18711	Facile fabrication of titania-ordered cubic mesoporous carbon composite: Effect of Ni doping on photocatalytic hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19255-19266.	3.8	21
18712	In-situ synthesis of TiO ₂ nanostructures on Ti foil for enhanced and stable photocatalytic performance. <i>Journal of Materials Science and Technology</i> , 2019, 35, 615-622.	5.6	40
18713	The use of waste SNCR catalysts to produce a nano-TiO ₂ photo-catalyst and to degrade wastewater from the dye making industry. <i>Water Science and Technology</i> , 2019, 79, 789-797.	1.2	1
18714	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <i>Advanced Materials</i> , 2019, 31, e1801993.	11.1	313
18715	Construction of CDs/CdS photocatalysts for stable and efficient hydrogen production in water and seawater. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 178-185.	10.8	174
18716	Solar Energy Harvesting with Carbon Nitrides and N-Heterocyclic Frameworks: Do We Understand the Mechanism?. <i>ChemPhotoChem</i> , 2019, 3, 10-23.	1.5	31
18717	Carbon nitride, metal nitrides, phosphides, chalcogenides, perovskites and carbides nanophotocatalysts for environmental applications. <i>Environmental Chemistry Letters</i> , 2019, 17, 655-682.	8.3	51
18718	Efficient visible light driven hydrogen generation using 9-(3,3-dimethyl-1,2-oxazetidine-N-yl)perylene-3,4-dicarboximide functionalized amino graphene. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 293-301.	10.8	3
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18720	Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 186-193.	10.8	120
18721	All-solid-state Z-scheme system of NiO/CDs/BiVO ₄ for visible light-driven efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2019, 358, 134-142.	6.6	71
18722	Anodic electrophoretic deposition of Bi ₂ WO ₆ thin film: high photocatalytic activity for degradation of a binary mixture. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 507-517.	10.8	68
18723	Intercalation of conjugated polyelectrolytes in layered titanate nanosheets for enhancement in photocatalytic activity. <i>Journal of Solid State Chemistry</i> , 2019, 269, 291-296.	1.4	4
18724	Data mining in photocatalytic water splitting over perovskites literature for higher hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 267-283.	10.8	47
18725	Electroless plating Ni-P cocatalyst decorated g-C ₃ N ₄ with enhanced photocatalytic water splitting for H ₂ generation. <i>Applied Surface Science</i> , 2019, 466, 847-853.	3.1	145

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18728	Ultra-thin Al ₂ O ₃ coatings on BiVO ₄ photoanodes: Impact on performance and charge carrier dynamics. <i>Catalysis Today</i> , 2019, 321-322, 59-66.	2.2	28
18729	CZTS-TiO ₂ thin film heterostructures for advanced photocatalytic wastewater treatment. <i>Catalysis Today</i> , 2019, 321-322, 172-177.	2.2	36
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18731	Photocatalytic asphalt pavement: the physicochemical and rheological impact of TiO ₂ nano/microparticles and ZnO microparticles onto the bitumen. <i>Road Materials and Pavement Design</i> , 2019, 20, 1452-1467.	2.0	25
18732	Construction of a few-layer g-C ₃ N ₄ /MoO ₃ nanoneedles all-solid-state Z-scheme photocatalytic system for photocatalytic degradation. <i>Journal of Energy Chemistry</i> , 2019, 29, 65-71.	7.1	54
18733	Ternary transition titanium-niobium trisulfide as photoanode for assisted water splitting. <i>Catalysis Today</i> , 2019, 321-322, 107-112.	2.2	11
18734	The effect of the Cu ⁺ /Cu ²⁺ ratio on the redox reactions by nanoflower CuNiOS catalysts. <i>Chemical Engineering Science</i> , 2019, 194, 105-115.	1.9	54
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18737	2D inorganic nanosheet-based hybrid photocatalysts: Design, applications, and perspectives. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 40, 150-190.	5.6	89
18738	Improved visible-light photocatalytic activity of sodium tantalum oxide via biomass-derived silk fibroin doping. <i>Textile Research Journal</i> , 2019, 89, 1332-1339.	1.1	3
18739	Highly efficient photocatalytic conversion of solar energy to hydrogen by WO ₃ /BiVO ₄ core-shell heterojunction nanorods. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1017-1024.	1.6	24
18740	Highly efficient and selective photocatalytic dehydrogenation of benzyl alcohol for simultaneous hydrogen and benzaldehyde production over Ni-decorated Zn _{0.5} Cd _{0.5} S solid solution. <i>Journal of Energy Chemistry</i> , 2019, 30, 71-77.	7.1	60
18741	The photocatalytic activity of rutile and anatase TiO ₂ electrodes modified with plasmonic metal nanoparticles followed by photoelectrochemical measurements. <i>Catalysis Today</i> , 2019, 321-322, 52-58.	2.2	22
18742	Photocatalytic H ₂ production over inverse opal TiO ₂ catalysts. <i>Catalysis Today</i> , 2019, 321-322, 113-119.	2.2	29
18743	Recent advances in nano-photocatalysts for organic synthesis. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4550-4578.	2.3	49

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18745	Improved photo-electrochemical properties of strained SnO ₂ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11035-11039.	3.8	8
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18751	Hydrothermal synthesis of pure and bio modified TiO ₂ : Characterization, evaluation of antibacterial activity against gram positive and gram negative bacteria and anticancer activity against KB Oral cancer cell line. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3484-3497.	2.3	34
18752	Facile synthesis of N/B-double-doped Mn ₂ O ₃ and WO ₃ nanoparticles for dye degradation under visible light. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2372-2381.	1.2	38
18753	Coupling of membrane and photocatalytic technologies for selective formation of high added value chemicals. <i>Catalysis Today</i> , 2020, 340, 128-144.	2.2	13
18754	Structural, electronic and photochemical properties of cerium-doped zirconium titanate. <i>Catalysis Today</i> , 2020, 340, 49-57.	2.2	11
18755	Metal-organic frameworks for photocatalytic CO ₂ reduction under visible radiation: A review of strategies and applications. <i>Catalysis Today</i> , 2020, 340, 209-224.	2.2	201
18756	Fabrication of large size nanoporous BiVO ₄ photoanode by a printing-like method for efficient solar water splitting application. <i>Catalysis Today</i> , 2020, 340, 145-151.	2.2	18
18757	Recent advances on TiO ₂ -based photocatalysts toward the degradation of pesticides and major organic pollutants from water bodies. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 1-65.	5.7	166
18758	TiO ₂ -Based Photocatalysis at the Interface with Biology and Biomedicine. <i>ChemBioChem</i> , 2020, 21, 294-309.	1.3	22
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18760	Revealing high hydrogen evolution activity in zinc porphyrin sensitized hierarchical porous TiO ₂ photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7508-7516.	3.8	36
18761	Recent Development of Ni/Fe-Based Micro/Nanostructures toward Photo/Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2020, 10, 1900954.	10.2	358

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18763	Effect of pH on phase, morphologies, and photocatalytic properties of BiOCl synthesized by hydrothermal method. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 41-48.	1.1	13
18764	Hybrid Photoelectrochemical Water Splitting Systems: From Interface Design to System Assembly. <i>Advanced Energy Materials</i> , 2020, 10, 1900399.	10.2	152
18765	Nanocarbons-Supported and Polymers-Supported Titanium Dioxide Nanostructures as Efficient Photocatalysts for Remediation of Contaminated Wastewater and Hydrogen Production. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 139-169.	0.3	34
18766	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. <i>Electrochemical Energy Reviews</i> , 2020, 3, 395-430.	13.1	59
18767	Wafer-scale Si nanoconed arrays induced syngas in the photoelectrochemical CO ₂ reduction. <i>Catalysis Today</i> , 2020, 339, 321-327.	2.2	15
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18769	ZnS-Bipy hybrid materials for the photocatalytic generation of hydrogen from water. <i>Catalysis Today</i> , 2020, 341, 104-111.	2.2	2
18770	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting – A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18331-18347.	3.8	185
18771	Photocatalytic hydrogen production over mixed Cd-Zn sulfide catalysts promoted with nickel or nickel phosphide. <i>Catalysis Today</i> , 2020, 355, 851-859.	2.2	13
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18774	Thiourea-assisted coating of dispersed copper electrocatalysts on Si photocathodes for solar hydrogen production. <i>Journal of Energy Chemistry</i> , 2020, 40, 75-80.	7.1	3
18775	Metal-organic frameworks (MOFs)-based efficient heterogeneous photocatalysts: Synthesis, properties and its applications in photocatalytic hydrogen generation, CO ₂ reduction and photodegradation of organic dyes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7656-7679.	3.8	214
18776	Plasma electrolytic titanium oxide applied for pathogenic bacteria inactivation. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 141-152.	1.2	6
18777	Use of Novel Nanostructured Photocatalysts for the Environmental Sustainability of Wastewater Treatments. , 2020, , 949-964.		17
18778	Sulfur- and chlorine-co-doped g-C ₃ N ₄ nanosheets with enhanced active species generation for boosting visible-light photodegradation activity. <i>Separation and Purification Technology</i> , 2020, 233, 115997.	3.9	103
18779	Cobalt nanoparticle with tunable size supported on nitrogen-deficient graphitic carbon nitride for efficient visible light driven H ₂ evolution reaction. <i>Chemical Engineering Journal</i> , 2020, 381, 122576.	6.6	32

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18781	Recent advances in earth-abundant photocatalyst materials for solar H_2 production. <i>Advanced Powder Technology</i> , 2020, 31, 11-28.	2.0	64
18782	In-situ oxidation fabrication of 0D/2D $\text{SnO}_2/\text{SnS}_2$ novel Step-scheme heterojunctions with enhanced photoelectrochemical activity for water splitting. <i>Applied Surface Science</i> , 2020, 501, 143974.	3.1	96
18783	SPR effect of Au nanoparticles on the visible photocatalytic RhB degradation and NO oxidation over TiO_2 hollow nanoboxes. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4404-4416.	2.3	33
18784	Post-side chain engineering of difluorinated benzothiadiazole-based conjugated microporous polymer for enhanced photocatalytic H_2 evolution. <i>Applied Surface Science</i> , 2020, 499, 143865.	3.1	33
18785	First-principles investigation of $\text{In}^{2+}\text{-Ge}_3\text{N}_4$ loaded with RuO_2 cocatalyst for photocatalytic overall water splitting. <i>Journal of Energy Chemistry</i> , 2020, 44, 24-32.	7.1	11
18786	Effective processes of phenol degradation on $\text{Fe}_3\text{O}_4\text{-TiO}_2$ nanostructured magnetic photocatalyst. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109178.	1.9	35
18787	Facile constructing of isotype $\text{g-C}_3\text{N}_4(\text{bulk})/\text{g-C}_3\text{N}_4(\text{nanosheet})$ heterojunctions through thermal polymerization of single-source glucose-modified melamine: An efficient charge separation system for photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020, 500, 143985.	3.1	58
18788	Hydrogen evolution reaction electrocatalysis trends of confined gallium phosphide with substitutional defects. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23928-23936.	3.8	10
18789	Review on the interface engineering in the carbonaceous titania for the improved photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7584-7615.	3.8	44
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18791	Existence form of lathanum and its improving mechanism of visible-light-driven La-F co-doped TiO_2 . <i>Journal of Rare Earths</i> , 2020, 38, 39-45.	2.5	5
18792	Study of Transition Metal Ion Doped CdS Nanoparticles for Removal of Dye from Textile Wastewater. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1915-1923.	1.9	29
18793	Visible-light-driven photocatalysis for methylene blue degradation and hydrogen evolution reaction: a case of black TiO_2 nanotube arrays. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 849-857.	1.1	12
18794	Emerging surface strategies on graphitic carbon nitride for solar driven water splitting. <i>Chemical Engineering Journal</i> , 2020, 382, 122812.	6.6	155
18795	Catalyst concentration, ethanol content and initial pH effects on hydrogen production by photocatalytic water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112051.	2.0	11
18796	Theoretical prediction of two-dimensional ZnO/GaN van der Waals heterostructure as a photocatalyst for water splitting. <i>Chemical Physics</i> , 2020, 528, 110539.	0.9	73
18797	Investigation of the structural, optical, and photoelectrochemical properties of $\text{In}^{\pm}\text{-Fe}_2\text{O}_3$ nanorods synthesized via a facile chemical bath deposition. <i>Optik</i> , 2020, 200, 163454.	1.4	14

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18799	Facile synthesis of AgNPs modified TiO ₂ @g-C ₃ N ₄ heterojunction composites with enhanced photocatalytic activity under simulated sunlight. <i>Materials Research Bulletin</i> , 2020, 121, 110641.	2.7	62
18800	Abatement of sulfadiazine in water under a modified ultrafiltration membrane (PVDF-PVP-TiO ₂ -dopamine) filtration-photocatalysis system. <i>Separation and Purification Technology</i> , 2020, 234, 116099.	3.9	65
18801	Enhanced visible-light photocatalytic H ₂ production of hierarchical g-C ₃ N ₄ hexagon by one-step self-assembly strategy. <i>Applied Surface Science</i> , 2020, 499, 143942.	3.1	16
18802	Transition metal doped ZnO nanoparticles with enhanced photocatalytic and antibacterial performances: Experimental and DFT studies. <i>Ceramics International</i> , 2020, 46, 1494-1502.	2.3	287
18803	Tuning of electron transfer by Ni ²⁺ decoration on CeO ₂ @TiO ₂ heterojunction for enhancement in photocatalytic hydrogen generation. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104742.	1.9	24
18804	A current perspective for photocatalysis towards the hydrogen production from biomass-derived organic substances and water. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18144-18159.	3.8	83
18805	Facile synthesis of silicon-doped polymeric carbon nitride with enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152488.	2.8	12
18806	Improvement of an Al ₂ O ₃ /CuO heterostructure photoelectrode by controlling the Al ₂ O ₃ precursor concentration. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 63-70.	2.9	5
18807	A novel Co-O cluster based coordination polymer for efficient hydrogen production photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 387, 112137.	2.0	8
18808	Photoelectrochemical evaluation of SILAR-deposited nanoporous BiVO ₄ photoanodes for solar-driven water splitting. <i>Nano Materials Science</i> , 2020, 2, 227-234.	3.9	14
18809	Design of Ag _x Au _{1-x} alloy/ZnIn ₂ S ₄ system with tunable spectral response and Schottky barrier height for visible-light-driven hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 382, 122953.	6.6	55
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18811	Recent progress on metal-organic frameworks based- and derived-photocatalysts for water splitting. <i>Chemical Engineering Journal</i> , 2020, 383, 123196.	6.6	148
18812	Room temperature plasma enriching oxygen vacancies of WO ₃ nanoflakes for photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152610.	2.8	17
18813	In situ synthesis of Pt and N co-doped hollow hierarchical BiOCl microsphere as an efficient photocatalyst for organic pollutant degradation and photocatalytic CO ₂ reduction. <i>Applied Surface Science</i> , 2020, 502, 144083.	3.1	77
18814	Integration of nickel complex as a cocatalyst onto in-plane benzene ring-incorporated graphitic carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 381, 122635.	6.6	32
18815	Fabrication of multilayer porous structured TiO ₂ @ZrTiO ₄ @SiO ₂ heterostructure towards enhanced photo-degradation activities. <i>Ceramics International</i> , 2020, 46, 476-486.	2.3	11

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18817	Recent advancements in visible-light-assisted photocatalytic removal of aqueous pharmaceutical pollutants. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 11-42.	2.1	54
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19924	Solar-Driven Carbon Nanoreactor Coupling Gold and Platinum Nanocatalysts for Alcohol Oxidations. <i>Small</i> , 2020, 16, e2002236.	5.2	21
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20356	Carbon Nano-Onions (CNOs)/TiO ₂ Composite Preparation and Its Photocatalytic Performance under Visible Light Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, 04020009.	0.7	12
20357	Fabrication of Bi ₂ MoO ₆ Photocatalytic Fibers via Wet Spinning and Enhanced Photocatalytic Activity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 735, 012013.	0.3	0
20358	Graphene Quantum Dots Doped PVDF(TBT)/PVP(TBT) Fiber Film with Enhanced Photocatalytic Performance. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 596.	1.3	9
20359	The roles and mechanism of cocatalysts in photocatalytic water splitting to produce hydrogen. <i>Chinese Journal of Catalysis</i> , 2020, 41, 642-671.	6.9	151
20360	Electroless-hydrothermal construction of nickel bridged nickel sulfide@mesoporous carbon nitride hybrids for highly efficient noble metal-free photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020, 45, 176-186.	5.6	20
20361	Advances and prospects of rare earth metal-organic frameworks in catalytic applications. <i>Journal of Rare Earths</i> , 2020, 38, 801-818.	2.5	66
20362	Nanoporous 6H-SiC Photoanodes with a Conformal Coating of Ni@FeOOH Nanorods for Zero-Onset-Potential Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7038-7046.	4.0	17
20363	In-situ Transmission Electron Microscope Techniques for Heterogeneous Catalysis. <i>ChemCatChem</i> , 2020, 12, 1853-1872.	1.8	60
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20366	Fluorinated conjugated poly(benzotriazole)/g-C ₃ N ₄ heterojunctions for significantly enhancing photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118577.	10.8	56
20367	Enhanced twisting degree assisted overall water splitting on a novel nano-dodecahedron BiVO ₄ -based heterojunction. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118664.	10.8	28
20368	A novel porous Fe ₃ O ₄ /Titanosilicate/g-C ₃ N ₄ ternary nanocomposites: Synthesis, characterization and their enhanced photocatalytic activity on Rhodamine B degradation under sunlight irradiation. <i>Journal of Water Process Engineering</i> , 2020, 34, 101141.	2.6	18
20369	Large-scale preparation of titania film for water splitting reaction. <i>Polyhedron</i> , 2020, 179, 114348.	1.0	1
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20376	N-Benzyl HMTA induced self-assembly of organic-inorganic hybrid materials for efficient photocatalytic degradation of tetracycline. <i>Journal of Hazardous Materials</i> , 2020, 391, 122121.	6.5	38
20377	Analytical supramolecular chemistry: Colorimetric and fluorimetric chemosensors. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2020, 42, 100340.	5.6	79
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20379	Hybrid nanostructures for solar-energy-conversion applications. <i>Nanomaterials and Energy</i> , 2020, 9, 39-46.	0.1	12
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20382	Impact of Methanol Photomediated Surface Defects on Photocatalytic H ₂ Production Over Pt/TiO ₂ . <i>Energy and Environmental Materials</i> , 2020, 3, 202-208.	7.3	27
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20385	Adsorption of dyes onto modified titanium dioxide. , 2020, , 85-160.		2
20386	Modification of photocatalyst with enhanced photocatalytic activity for water treatment. , 2020, , 289-366.		5
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20389	Effect of silver doping on the photocatalytic activity of TiO ₂ nanopowders synthesized by the sol-gel route. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103718.	3.3	63
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20392	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. <i>New Journal of Chemistry</i> , 2020, 44, 3514-3523.	1.4	58
20393	Bismuth sulphide decorated ZnO nanorods heterostructure assembly via controlled SILAR cationic concentration for enhanced photoelectrochemical cells. <i>Materials Research Express</i> , 2020, 7, 025510.	0.8	3
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20399	Research Progress of Photocatalytic Deep Denitrification Technology for Oil Products: Mini-review. <i>Recent Innovations in Chemical Engineering</i> , 2020, 13, 17-28.	0.2	0
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20407	Recent Advances in Niobium-Based Materials for Photocatalytic Solar Fuel Production. <i>Catalysts</i> , 2020, 10, 126.	1.6	55
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20430	Enhancement of photocatalytic degradation of ibuprofen contained in water using a static mixer. <i>Chemical Engineering Research and Design</i> , 2020, 156, 54-63.	2.7	16
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20448	In-situ/operando soft x-ray spectroscopy characterization of energy and catalytic materials. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110432.	3.0	7
20449	Enabling Unassisted Solar Water Splitting by Single-Junction Amorphous Silicon Photoelectrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 4629-4637.	2.5	11
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20770	Interface excess on Sb-doped TiO ₂ photocatalysts and its influence on photocatalytic activity. <i>Ceramics International</i> , 2021, 47, 619-625.	2.3	14
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20773	Novel facet-engineered multi-doped TiO ₂ mesocrystals with unprecedented visible light photocatalytic hydrogen production. <i>Solar Energy Materials and Solar Cells</i> , 2021, 220, 110825.	3.0	34
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20775	Insights into the Surface/Interface Modifications of Bi ₂ MoO ₆ : Feasible Strategies and Photocatalytic Applications. <i>Solar Rrl</i> , 2021, 5, 2000442.	3.1	29
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20777	Ultrafast degradation of Congo Red dye using a facile one-pot solvothermal synthesis of cuprous oxide/titanium dioxide and cuprous oxide/zinc oxide p-n heterojunction photocatalyst. <i>Materials Science in Semiconductor Processing</i> , 2021, 122, 105481.	1.9	29
20778	VIS-active TiO ₂ @ graphene oxide composite thin films for photocatalytic applications. <i>Applied Surface Science</i> , 2021, 538, 147833.	3.1	24
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20780	Efficient ytterbium-doped Bi ₂ WO ₆ photocatalysts: Synthesis, the formation of oxygen vacancies and boosted superoxide yield for enhanced visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156935.	2.8	53
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20786	Novel strategy for efficient water splitting through pyro-electric and pyro-photo-electric catalysis of BaTiO ₃ by using thermal resource and solar energy. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119686.	10.8	81

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21787	Surface oxygen vacancies of Pd/Bi ₂ MoO _{6-x} acts as γ -Electron Bridge [•] to promote photocatalytic selective oxidation of alcohol. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119790.	10.8	90
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22473	Construction of THPP-sg-PSf/TiO ₂ membrane as photocatalyst for enhanced photoinduced hydrogen evolution. <i>Applied Surface Science</i> , 2021, 566, 150667.	3.1	11
22474	A novel magnetically separable CoFe ₂ O ₄ -BiO ₂ heterojunction with enhanced photocatalytic activity under near-infrared light irradiation. <i>Materials Letters</i> , 2021, 303, 130497.	1.3	8
22475	In situ construction of elemental phosphorus nanorod-modified TiO ₂ photocatalysts for efficient visible-light-driven H ₂ generation. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120412.	10.8	30
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22477	Constructed Co ₃ O ₄ -Sn ₃ O ₄ hierarchical nanoflower-tree heterostructure with boosting photoelectrocatalytic efficiency for water decontamination. <i>Chemical Engineering Journal</i> , 2021, 423, 130252.	6.6	25

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22481	Diffused phase transition boosted dye degradation with Ba (Zr _x Ti _{1-x})O ₃ solid solutions through piezoelectric effect. <i>Nano Energy</i> , 2021, 89, 106474.	8.2	52
22482	Plasmonic enhancement of hydrogen production by water splitting with CdS nanowires protected by metallic TiN overlayers as highly efficient photocatalysts. <i>Nano Energy</i> , 2021, 89, 106407.	8.2	23
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22487	Solar-harvesting lead halide perovskite for artificial photosynthesis. <i>Journal of Energy Chemistry</i> , 2021, 62, 11-26.	7.1	14
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25034	A fully printed organic-inorganic metal halide perovskite photocathode for photoelectrochemical reduction of Cr(VI) in aqueous solution. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109499.	1.8	0
25035	Pt nanoparticles coupled with perylene-based small molecule deposited on Ti ³⁺ self-doped TiO ₂ nanorods—An inorganic/organic type-II nanoheterostructure for efficient visible-light photoelectrochemical water oxidation. <i>Chemosphere</i> , 2022, 301, 134696.	4.2	9
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25039	Engineering of catalytically active sites in photoactive metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2022, 465, 214561.	9.5	22

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25044	Oxygen vacancy and pyroelectric polarization collaboratively enhancing PEC performance in BaTiO ₃ photoelectrodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 129073.	2.3	11
25045	Photocatalytic dry reforming of methane by rhodium supported monoclinic TiO ₂ -B nanobelts. <i>Journal of Energy Chemistry</i> , 2022, 71, 562-571.	7.1	23
25046	Ti-Fe ₂ O ₃ /perylene-3,4,9,10-tetracarboxylic acid heterojunction modified with Co(OH) ₂ as cocatalyst for photoelectrochemical water oxidation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 128996.	2.3	3
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26750	Surface Enhanced Raman Spectroscopic Studies on Surface Plasmon Resonance Catalytic Activity of TiO ₂ -Metal Nanocomposites. <i>Nano Hybrids and Composites</i> , 0, 38, 1-14.	0.8	0
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26764	Photocatalytic degradation of crystal violet and benzimidazole using Ag-CoFe ₂ O ₄ and its composite with graphitic carbon nitride. <i>Macromolecular Research</i> , 2023, 31, 91-104.	1.0	2
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26768	Scalable optical fiber reactor for photocatalytic H ₂ production: Addressing scattering issues. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 17086-17096.	3.8	1

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26803	Single-Atom Sn-Loaded Exfoliated Layered Titanate Revealing Enhanced Photocatalytic Activity in Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 3306-3315.	3.2	7
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