

# Semiconductor heterojunction photocatalysts: design, synthesis and performances

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Gold nanocage coupled single crystal TiO <sub>2</sub> nanostructures for near-infrared water photolysis. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	12
3	Enhanced visible light photocatalytic degradation of Rhodamine B by Bi/Bi <sub>2</sub> MoO <sub>6</sub> hollow microsphere composites. <i>RSC Advances</i> , 2014, , .	1.7	0
4	3D controllable preparation of composite CuO/TiO <sub>2</sub> nanofibers. <i>RSC Advances</i> , 2014, 4, 63520-63525.	1.7	14
5	Facile synthesis of small Ag@AgCl nanoparticles via a vapor diffusion strategy and their highly efficient visible-light-driven photocatalytic performance. <i>Catalysis Science and Technology</i> , 2014, 4, 3615-3619.	2.1	19
6	Novel visible light-induced g-C <sub>3</sub> N <sub>4</sub> quantum dot/BiPO <sub>4</sub> nanocrystal composite photocatalysts for efficient degradation of methyl orange. <i>RSC Advances</i> , 2014, 4, 35144-35148.	1.7	43
7	Facile Synthesis of Highly Efficient One-Dimensional Plasmonic Photocatalysts through Ag@Cu <sub>2</sub> O Core-Shell Heteronanowires. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15716-15725.	4.0	127
10	Photocatalytically Renewable Microelectrochemical Sensor for Real-Time Monitoring of Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14402-14406.	7.2	44
11	Achieving Exceptional Photocatalytic Activity and Selectivity through a Well-Controlled Short-Ordered Structure: A Case Study of NaTaO <sub>3</sub> ·xH <sub>2</sub> O. <i>ChemCatChem</i> , 2015, 7, 2437-2441.	1.8	7
12	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa <sub>2</sub> O <sub>6</sub> ·xH <sub>2</sub> O/TaON Heterostructure Photocatalyst for H <sub>2</sub> Evolution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8498-8501.	7.2	252
13	An Efficient n Heterojunction Photocatalyst Constructed from a Coordination Polymer Nanoplate and a Partially Reduced Graphene Oxide for Visible-Light Hydrogen Production. <i>Chemistry - A European Journal</i> , 2015, 21, 14638-14647.	1.7	24
14	Ultrathin g-C <sub>3</sub> N <sub>4</sub> Nanosheets Coupled with AgI <sub>3</sub> as Highly Efficient Heterostructured Photocatalysts for Enhanced Visible-Light Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2015, 21, 17739-17747.	1.7	40
15	Effect of Erbium on the Photocatalytic Activity of TiO <sub>2</sub> /Ag Nanocomposites under Visible Light Irradiation. <i>ChemPhysChem</i> , 2015, 16, 3084-3092.	1.0	16
16	Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2015, 27, 4634-4639.	11.1	567
17	Charge Transfer and Photocatalytic Activity in CuO/TiO <sub>2</sub> Nanoparticle Heterojunctions Synthesised through a Rapid, One-Pot, Microwave Solvothermal Route. <i>ChemCatChem</i> , 2015, 7, 1659-1667.	1.8	87
18	Chemical-Bond-Mediated n Heterojunction Photocatalyst Constructed from Coordination Polymer Nanoparticles and a Conducting Copolymer: Visible-Light Active and Highly Efficient. <i>Chemistry - A European Journal</i> , 2015, 21, 17430-17436.	1.7	12
19	Hybrid ZnO/TiO <sub>2</sub> Loaded in Electrospun Polymeric Fibers as Photocatalyst. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	0.9	25
20	Enhancement of visible light photocatalytic activity of tantalum oxynitride and tantalum nitride by coupling with bismuth oxide; an example of composite photocatalysis. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1738, 13.	0.1	3
21	Efficient Mesoporous Semiconductor Materials for Environmental Applications. <i>Handbook of Environmental Chemistry</i> , 2015, , 221-266.	0.2	0

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23	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance $\text{CO}_3\text{O}_2$ -Doped $\text{Bi}_2\text{O}_3\text{CO}_3$ . <i>ACS Catalysis</i> , 2015, 5, 4094-4103.	5.5	690
24	Vacuum-assisted impregnation derived $\text{Bi}_2\text{O}_3/\text{TiO}_2$ nanotube arrays with enhanced photoelectrochemical activity. <i>Materials Letters</i> , 2015, 158, 104-107.	1.3	8
25	Silver nanoparticles and defect-induced visible light photocatalytic and photoelectrochemical performance of $\text{Ag}@m\text{-TiO}_2$ nanocomposite. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 162-170.	3.0	126
26	Photocatalytic degradation of 2,4,4'-trichlorobiphenyl into long-chain alkanes using Ag nanoparticle decorated flower-like ZnO microspheres. <i>New Journal of Chemistry</i> , 2015, 39, 7781-7785.	1.4	4
27	Study on stability of poly(3-hexylthiophene)/titanium dioxide composites as a visible light photocatalyst. <i>Applied Surface Science</i> , 2015, 349, 650-656.	3.1	25
28	Facile synthesis of $\text{CdS}@m\text{-TiO}_2$ core-shell nanorods with controllable shell thickness and enhanced photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2015, 349, 279-286.	3.1	93
29	Metal oxides as photocatalysts. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 462-464.	2.4	432
30	Improved electrode performance in microbial fuel cells and the enhanced visible light-induced photoelectrochemical behaviour of $\text{PtO}@m\text{-TiO}_2$ nanocomposites. <i>Ceramics International</i> , 2015, 41, 9131-9139.	2.3	39
31	Origin of High Photocatalytic Efficiency in Monolayer $\text{g-C}_3\text{N}_4/\text{CdS}$ Heterostructure: A Hybrid DFT Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28417-28423.	1.5	345
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33	Photocatalysis fundamentals and surface modification of $\text{TiO}_2$ nanomaterials. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2049-2070.	6.9	458
34	Well-Steered Charge-Carrier Transfer in 3D Branched $\text{Cu}_2\text{O}/\text{ZnO}@m\text{-Au}$ Heterostructures for Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26819-26827.	4.0	77
35	Three-Dimensional Porous Aerogel Constructed by $\text{g-C}_3\text{N}_4$ and Graphene Oxide Nanosheets with Excellent Visible-Light Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25693-25701.	4.0	383
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37	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 998-1013.	7.8	706
38	Construction of reduced graphene oxide-supported $\text{Ag-Cu}_2\text{O}$ composites with hierarchical structures for enhanced photocatalytic activities and recyclability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5923-5933.	5.2	89
39	$\text{Zn-CdS}/\text{Graphene oxide}$ heterostructures prepared by a light irradiation-assisted method for effective photocatalytic hydrogen generation. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 150-154.	5.0	33

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41	Hierarchically Z-scheme photocatalyst of Ag@AgCl decorated on BiVO <sub>4</sub> (0 4 0) with enhancing photoelectrochemical and photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 206-214.	10.8	325
42	Controllable synthesis of highly active BiOCl hierarchical microsphere self-assembled by nanosheets with tunable thickness. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 91-99.	10.8	57
43	Synergistic Effect of Titanate-Anatase Heterostructure and Hydrogenation-Induced Surface Disorder on Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2015, 5, 1708-1716.	5.5	92
44	Hollow Structured Y <sub>2</sub> O <sub>3</sub> :Yb/Er@Cu <sub>x</sub> S Nanospheres with Controllable Size for Simultaneous Chemo/Photothermal Therapy and Bioimaging. <i>Chemistry of Materials</i> , 2015, 27, 483-496.	3.2	102
45	Facile synthesis of ZnS nanoparticles and their excellent photocatalytic performance. <i>Ceramics International</i> , 2015, 41, 6645-6652.	2.3	33
46	Microwave-assisted synthesis and enhanced visible-light-driven photocatalytic property of g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> nanocomposite. <i>Materials Letters</i> , 2015, 145, 23-26.	1.3	33
47	Engineering a high energy surface of anatase TiO <sub>2</sub> crystals towards enhanced performance for energy conversion and environmental applications. <i>RSC Advances</i> , 2015, 5, 20396-20409.	1.7	79
48	Fe <sub>2</sub> O <sub>3</sub> @AgBr nonwoven cloth with hierarchical nanostructures as efficient and easily recyclable macroscale photocatalysts. <i>RSC Advances</i> , 2015, 5, 10951-10959.	1.7	34
49	Direct generation of titanium dioxide nanoparticles dispersion under supercritical conditions for photocatalytic active thermoplastic surfaces for microbiological inactivation. <i>Materials Chemistry and Physics</i> , 2015, 153, 274-284.	2.0	2
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51	Electrochemically Alternating Voltage Induced Mn <sub>3</sub> O <sub>4</sub> /Graphite Powder Composite with Enhanced Electrochemical Performances for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 155, 157-163.	2.6	36
52	Branched hierarchical photoanode of anatase TiO <sub>2</sub> nanotubes on rutile TiO <sub>2</sub> nanorod arrays for efficient quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4445-4452.	5.2	64
53	Creation of Cu <sub>2</sub> O@TiO <sub>2</sub> Composite Photocatalysts with p-n Heterojunctions Formed on Exposed Cu <sub>2</sub> O Facets, Their Energy Band Alignment Study, and Their Enhanced Photocatalytic Activity under Illumination with Visible Light. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1465-1476.	4.0	174
54	ZnSe@0.5N <sub>2</sub> H <sub>4</sub> Hybrid Nanostructures: A Promising Alternative Photocatalyst for Solar Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1616-1623.	4.0	77
55	Sol-gel synthesis, characterization and photocatalytic properties of SrCrO <sub>4</sub> particles. <i>Materials Letters</i> , 2015, 144, 85-89.	1.3	13
56	Critical influence of g-C <sub>3</sub> N <sub>4</sub> self-assembly coating on the photocatalytic activity and stability of Ag/AgCl microspheres under visible light. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 472-482.	10.8	111
57	Synthesis of vis/NIR-driven hybrid photocatalysts by electrostatic assembly of NaYF <sub>4</sub> :Yb, Tm nanocrystals on g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Materials Letters</i> , 2015, 146, 87-90.	1.3	28

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59	Electrospun Cr-doped $\text{Bi}_4\text{Ti}_3\text{O}_{12}/\text{Bi}_2\text{Ti}_2\text{O}_7$ heterostructure fibers with enhanced visible-light photocatalytic properties. Journal of Materials Chemistry A, 2015, 3, 6586-6591.	5.2	67
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63	Robust Wide Visible-Light-Responsive Photoactivity for $\text{H}_2$ Production over a Polymer/Polymer Heterojunction Photocatalyst: The Significance of Sacrificial Reagent. ACS Sustainable Chemistry and Engineering, 2015, 3, 1501-1509.	3.2	119
64	Controlling Core/Shell Formation of Nanocubic $\text{Cu}_2\text{O}/\text{ZnO}$ Toward Enhanced Photocatalytic Performance. Langmuir, 2015, 31, 10922-10930.	1.6	75
65	$\text{Y}_2\text{O}_3:\text{Yb,Er}@m\text{SiO}_2$ $\text{Cu}_x\text{S}$ double-shelled hollow spheres for enhanced chemo-/photothermal anti-cancer therapy and dual-modal imaging. Nanoscale, 2015, 7, 12180-12191.	2.8	55
67	$\text{Ag}_2\text{CO}_3/\text{UiO-66}(\text{Zr})$ composite with enhanced visible-light promoted photocatalytic activity for dye degradation. Journal of Hazardous Materials, 2015, 299, 132-140.	6.5	130
68	Preparation of $\text{Ni}@C@Cd_{0.8}Zn_{0.2}S$ nanocomposites with highly efficient and stable photocatalytic hydrogen production activity. Physical Chemistry Chemical Physics, 2015, 17, 10944-10952.	1.3	18
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78	2D double-layer-tube-shaped structure Bi <sub>2</sub> S <sub>3</sub> /ZnS heterojunction with enhanced photocatalytic activities. Physica B: Condensed Matter, 2015, 474, 81-89.	1.3	27
79	Realizing nanosized interfacial contact via constructing BiVO <sub>4</sub> /Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> element-copied heterojunction nanofibres for superior photocatalytic properties. Applied Catalysis B: Environmental, 2015, 179, 54-60.	10.8	84
80	Biomimetic synthesis of C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /Ag nanosheet composites with high visible-light photocatalytic performance. RSC Advances, 2015, 5, 56913-56921.	1.7	28
81	Visible light assisted photocatalytic hydrogen generation by Ta <sub>2</sub> O <sub>5</sub> /Bi <sub>2</sub> O <sub>3</sub> , TaON/Bi <sub>2</sub> O <sub>3</sub> , and Ta <sub>3</sub> N <sub>5</sub> /Bi <sub>2</sub> O <sub>3</sub> composites. RSC Advances, 2015, 5, 54998-55005.	1.7	47
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83	Improving g-C <sub>3</sub> N <sub>4</sub> photocatalysis for NO <sub>x</sub> removal by Ag nanoparticles decoration. Applied Surface Science, 2015, 358, 356-362.	3.1	101
84	Recent advances in the development of sunlight-driven hollow structure photocatalysts and their applications. Journal of Materials Chemistry A, 2015, 3, 18345-18359.	5.2	200
85	In Situ Co-Crystallization for Fabrication of g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>5</sub> O <sub>7</sub> Heterojunction for Enhanced Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2015, 119, 17156-17165.	1.5	165
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88	Facile synthesis of Ag@CeO <sub>2</sub> core-shell plasmonic photocatalysts with enhanced visible-light photocatalytic performance. Journal of Hazardous Materials, 2015, 300, 93-103.	6.5	81
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90	Basics of Photocatalysis. , 2015, , 1-23.		9
91	Multifunctional Metal-Organic Frameworks for Photocatalysis. Small, 2015, 11, 3097-3112.	5.2	538
92	Ternary mesoporous WO <sub>3</sub> /Mn <sub>3</sub> O <sub>4</sub> /N-doped graphene nanocomposite for enhanced photocatalysis under visible light irradiation. Catalysis Science and Technology, 2015, 5, 3375-3382.	2.1	28
93	Steering charge kinetics in photocatalysis: intersection of materials syntheses, characterization techniques and theoretical simulations. Chemical Society Reviews, 2015, 44, 2893-2939.	18.7	955
94	Effects of common metal cations on Ag <sub>3</sub> PO <sub>4</sub> -photocatalytic water decontamination. Journal of Environmental Chemical Engineering, 2015, 3, 1215-1222.	3.3	7

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95	In situ growth of CdS nanoparticles on UiO-66 metal-organic framework octahedrons for enhanced photocatalytic hydrogen production under visible light irradiation. <i>Applied Surface Science</i> , 2015, 346, 278-283.	3.1	197
96	Titania-clay heterostructures with solar photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 278-287.	10.8	78
97	What is the transfer mechanism of photogenerated carriers for the nanocomposite photocatalyst Ag <sub>3</sub> PO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> , band transfer or a direct Z-scheme?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11577-11585.	1.3	155
98	Preparation of Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheet p-n junction for enhanced photocatalytic ability under visible light illumination. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	30
99	Effects of non-metal dopants and defects on electronic properties of barium titanate as photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4766-4776.	3.8	16
100	B-doped 3C-SiC nanowires with a finned microstructure for efficient visible light-driven photocatalytic hydrogen production. <i>Nanoscale</i> , 2015, 7, 8955-8961.	2.8	80
101	Enhanced photocatalytic degradation activity for tetracycline under visible light irradiation of Ag/Bi <sub>3.84</sub> WO <sub>16</sub> O <sub>6.24</sub> nanooctahedrons. <i>CrystEngComm</i> , 2015, 17, 2421-2428.	1.3	21
102	Facile hydrothermal-carbonization approach to carbon-modified BiVO <sub>4</sub> composites with enhanced photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2015, 35, 90-95.	1.9	19
103	Direct Synthesis of Porous Nanorod-type Graphitic Carbon Nitride/CuO Composite from Cu-Melamine Supramolecular Framework towards Enhanced Photocatalytic Performance. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1276-1280.	1.7	131
104	Hollow Mesoporous SiO <sub>2</sub> -BiOBr Nanophotocatalyst: Synthesis, Characterization and Application in Photodegradation of Organic Dyes under Visible-Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1101-1110.	3.2	54
105	One-pot synthesis of copper-doped graphitic carbon nitride nanosheet by heating Cu-melamine supramolecular network and its enhanced visible-light-driven photocatalysis. <i>Journal of Solid State Chemistry</i> , 2015, 228, 60-64.	1.4	140
106	Preparation and characterization of CuCrO <sub>2</sub> /TiO <sub>2</sub> heterostructure photocatalyst with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2015, 347, 747-754.	3.1	34
107	On the origin of the photocatalytic activity improvement of BiVO <sub>4</sub> through rare earth tridoping. <i>Applied Catalysis A: General</i> , 2015, 501, 56-62.	2.2	31
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110	Enhanced visible light photocatalytic activity of alkaline earth metal ions-doped CdSe/rGO photocatalysts synthesized by hydrothermal method. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 174-184.	10.8	123
111	One-step synthesis of nanostructured Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> -ZnO composites with enhanced photocatalytic performance. <i>CrystEngComm</i> , 2015, 17, 3809-3819.	1.3	20
112	Enhanced Photoreduction CO <sub>2</sub> Activity over Direct Z-Scheme Bi <sub>2</sub> Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O Heterostructures under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8631-8639.	4.0	334

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114	Rapid degradation of Congo red by molecularly imprinted polypyrrole-coated magnetic TiO <sub>2</sub> nanoparticles in dark at ambient conditions. <i>Journal of Hazardous Materials</i> , 2015, 294, 168-176.	6.5	88
115	One-pot synthesis of a TiO <sub>2</sub> $\alpha$ -CdS nano-heterostructure assembly with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 34942-34948.	1.7	17
116	A general method for type I and type II g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> metal-free isotype heterostructures with enhanced visible light photocatalysis. <i>New Journal of Chemistry</i> , 2015, 39, 4737-4744.	1.4	95
117	Gold nanoparticles-sensitized wide and narrow band gap TiO <sub>2</sub> for visible light applications: a comparative study. <i>New Journal of Chemistry</i> , 2015, 39, 4708-4715.	1.4	90
118	Modification Strategies with Inorganic Acids for Efficient Photocatalysts by Promoting the Adsorption of O <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22727-22740.	4.0	68
119	Enhanced photocatalytic hydrogen production in water under visible light using noble metal-free ferrous phosphide as an active cocatalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 4964-4967.	2.1	83
120	Preparation of TiO <sub>x</sub> N <sub>y</sub> /TiN composites for photocatalytic hydrogen evolution under visible light. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28782-28788.	1.3	47
121	Magnetically separable Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> catalyst with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 95727-95735.	1.7	57
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259	In situ Fabrication of $\text{Bi}^{1\pm}\text{-Bi}_2\text{O}_3/(\text{BiO})_2\text{CO}_3$ Nanoplate Heterojunctions with Tunable Optical Property and Photocatalytic Activity. <i>Scientific Reports</i> , 2016, 6, 23435.	1.6	65
260	An efficient visible-light photocatalyst made from a nonpolar layered semiconductor by grafting electron-withdrawing organic molecules to its surface. <i>Chemical Communications</i> , 2016, 52, 13507-13510.	2.2	32
261	A galvanic replacement reaction to synthesise metal/ZnO heterostructured films on zinc substrates for enhanced photocatalytic performance. <i>RSC Advances</i> , 2016, 6, 103594-103600.	1.7	8
262	Bio-inspired Plasmonic Nanoarchitected Hybrid System Towards Enhanced Far Red-to-Near Infrared Solar Photocatalysis. <i>Scientific Reports</i> , 2016, 6, 20001.	1.6	39
263	A novel layered bismuth-based photocatalytic material $\text{LiBi}_3\text{O}_4\text{Cl}_2$ with OH and $h^+$ as the active species for efficient photodegradation applications. <i>Solid State Sciences</i> , 2016, 62, 43-49.	1.5	13
264	Spatial separation of photo-generated electron-hole pairs in BiOBr/BiOI bilayer to facilitate water splitting. <i>Scientific Reports</i> , 2016, 6, 32764.	1.6	53
265	Plasmonic Bi/ZnWO <sub>4</sub> Microspheres with Improved Photocatalytic Activity on NO Removal under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6912-6920.	3.2	88
266	Antimony sulphoiodide (SbSI), a narrow band-gap non-oxide ternary semiconductor with efficient photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 105980-105987.	1.7	35
267	Direct Generation of Fine Bi <sub>2</sub> WO <sub>6</sub> Nanocrystals on g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Enhanced Photocatalytic Activity. <i>ChemNanoMat</i> , 2016, 2, 732-738.	1.5	25
268	Recent developments in visible-light photocatalytic degradation of antibiotics. <i>Chinese Journal of Catalysis</i> , 2016, 37, 792-799.	6.9	178
269	Improving photocatalysis and magnetic recyclability in Bi <sub>5</sub> Fe <sub>0.95</sub> Co <sub>0.05</sub> Ti <sub>3</sub> O <sub>15</sub> via europium doping. <i>Journal of Alloys and Compounds</i> , 2016, 686, 306-311.	2.8	9
270	Two-Solvent Method Synthesis of NiO/ZnO Nanoparticles Embedded in Mesoporous SBA-15: Photocatalytic Properties Study. <i>Nanoscale Research Letters</i> , 2016, 11, 226.	3.1	22
271	Fabrication of Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunctions for efficiently photocatalytic NO in air removal: In-situ self-sacrificial synthesis, characterizations and mechanistic study. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 123-133.	10.8	214
272	Visible light driven photocatalytic hydrogen evolution over CdS incorporated mesoporous anatase TiO <sub>2</sub> beads. <i>Research on Chemical Intermediates</i> , 2016, 42, 5479-5493.	1.3	9
273	Three dimensional Z-scheme (BiO) <sub>2</sub> CO <sub>3</sub> /MoS <sub>2</sub> with enhanced visible light photocatalytic NO removal. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 87-95.	10.8	133
274	ZnS@ZnO nanocomposites: synthesis, characterization and enhanced photocatalytic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10282-10288.	1.1	15
275	Optical band structure and photogenerated carriers transfer dynamics in FTO/TiO <sub>2</sub> heterojunction photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 224-229.	10.8	29



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277	Efficient Z-scheme photocatalyst from simultaneous decoration of In <sub>2</sub> S <sub>3</sub> nanosheets and WO <sub>3</sub> nanorods on graphene sheets. <i>Nanotechnology</i> , 2016, 27, 285602.	1.3	13
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279	Conducting PANI stimulated ZnO system for visible light photocatalytic degradation of coloured dyes. <i>Journal of Molecular Liquids</i> , 2016, 221, 1029-1033.	2.3	608
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295	Synthesis of the visible-light-driven Ag <sub>3</sub> VO <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> /Ag photocatalysts with enhanced photocatalytic activity. RSC Advances, 2016, 6, 14909-14915.	1.7	32
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383	Novel $\text{Ag}_2\text{MoO}_4/\text{g-C}_3\text{N}_4$ heterojunction catalysts with highly enhanced visible-light-driven photocatalytic activity. <i>RSC Advances</i> , 2017, 7, 2163-2171.	1.7	68

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385	Black Phosphorus Revisited: A Missing Metal-Free Elemental Photocatalyst for Visible Light Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1605776.	11.1	405
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726	Steering plasmonic hot electrons to realize enhanced full-spectrum photocatalytic hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2018, 39, 453-462.	6.9	18
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728	Smart Hybridization of Au Coupled CdS Nanorods with Few Layered MoS <sub>2</sub> Nanosheets for High Performance Photocatalytic Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6445-6457.	3.2	121
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732	Assembly of Ag <sub>3</sub> PO <sub>4</sub> nanoparticles on rose flower-like Bi <sub>2</sub> WO <sub>6</sub> hierarchical architectures for achieving high photocatalytic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9291-9300.	1.1	68
733	A new SnS <sub>2</sub> -BiFeO <sub>3</sub> /reduced graphene oxide photocatalyst with superior photocatalytic capability under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 359, 11-22.	2.0	45
734	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. <i>Journal of Molecular Liquids</i> , 2018, 260, 342-350.	2.3	119
735	Fabrication of multiple hierarchical heterojunction Ag@AgBr/BiPO <sub>4</sub> /r-GO with enhanced visible-light-driven photocatalytic activities towards dye degradation. <i>Applied Surface Science</i> , 2018, 445, 39-49.	3.1	56
736	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 76-93.	7.0	422
737	Tunable band alignment in two-phase-coexistence Nb <sub>3</sub> O <sub>7</sub> F nanocrystals with enhanced light harvesting and photocatalytic performance. <i>Nanotechnology</i> , 2018, 29, 225605.	1.3	5
738	A monodisperse anionic silver nanoparticles colloid: Its selective adsorption and excellent plasmon-induced photodegradation of Methylene Blue. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 98-109.	5.0	27
739	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 166-175.	2.1	76
740	Hierarchical architectures of bismuth molybdate nanosheets onto nickel titanate nanofibers: Facile synthesis and efficient photocatalytic removal of tetracycline hydrochloride. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 42-49.	5.0	90
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742	Preparation of phenyl group functionalized g-C <sub>3</sub> N <sub>4</sub> nanosheets with extended electron delocalization for enhanced visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2018, 42, 6756-6762.	1.4	19
743	Synthesis of Metal-Oxide/Carbon-Fiber Heterostructures and Their Properties for Organic Dye Removal and High-Temperature CO <sub>2</sub> Adsorption. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 508-515.	0.1	0
744	Building of peculiar heterostructure of Ag/two-dimensional fullerene shell-WO <sub>3-x</sub> for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 381-390.	10.8	54
745	The Effects of Hydrogenation on Graphitic C <sub>3</sub> N <sub>4</sub> Nanosheets for Enhanced Photocatalytic Activity. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700038.	1.2	52
746	Photocatalytic degradation of polyvinylpyrrolidone in aqueous solution using TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV system. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1071-1078.	0.1	0
747	Interparticle double charge transfer mechanism of heterojunction Zn-Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O mixed oxide catalysts and its visible light photocatalytic activity. <i>Catalysis Today</i> , 2018, 300, 58-70.	2.2	85

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749	Charge-regulated sequential adsorption of anionic catalysts and cationic photosensitizers into metal-organic frameworks enhances photocatalytic proton reduction. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 46-52.	10.8	81
750	Enhanced UV- and visible-light driven photocatalytic performances and recycling properties of graphene oxide/ZnO hybrid layers. <i>Ceramics International</i> , 2018, 44, 1826-1835.	2.3	37
751	Effect of reaction atmosphere on photodeposition of Pt nanoparticles and photocatalytic hydrogen evolution from SrTiO <sub>3</sub> suspension system. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5331-5336.	3.8	21
752	One-pot synthesis and improved photocatalytic performance of Ag <sub>10</sub> Si <sub>4</sub> O <sub>13</sub> /Na <sup>+</sup> CeO <sub>2</sub> composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2282-2290.	1.1	3
753	Enhanced visible-light-driven photocatalysis from WS <sub>2</sub> quantum dots coupled to BiOCl nanosheets: synergistic effect and mechanism insight. <i>Catalysis Science and Technology</i> , 2018, 8, 201-209.	2.1	95
754	Synthesis of Au nanoparticle-decorated carbon nitride nanorods with plasmon-enhanced photoabsorption and photocatalytic activity for removing various pollutants from water. <i>Journal of Hazardous Materials</i> , 2018, 344, 1188-1197.	6.5	81
755	Design and synthesis of porous Ag/ZnO nanosheets assemblies as super photocatalysts for enhanced visible-light degradation of 4-nitrophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 565-573.	10.8	214
756	Enhanced Photocatalytic Hydrogen Evolution of NiCoP/g-C <sub>3</sub> N <sub>4</sub> with Improved Separation Efficiency and Charge Transfer Efficiency. <i>ChemSusChem</i> , 2018, 11, 276-284.	3.6	208
757	Metal-free heterojunction of graphitic carbon nitride composite with superior and stable visible-light active photocatalysis. <i>Materials Chemistry and Physics</i> , 2018, 204, 243-250.	2.0	26
758	NiFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction composite with enhanced visible-light photocatalytic activity. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 439-448.	2.4	67
759	Nanohybrids of Two-dimensional Transition-metal Dichalcogenides and Titanium Dioxide for Photocatalytic Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 18-31.	1.7	53
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761	Oxygen vacancy-rich 2D/2D BiOCl-g-C <sub>3</sub> N <sub>4</sub> ultrathin heterostructure nanosheets for enhanced visible-light-driven photocatalytic activity in environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 290-302.	10.8	490
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767	Facile synthesis of heterostructured YVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> /Ag photocatalysts with enhanced visible-light photocatalytic performance. Applied Catalysis B: Environmental, 2018, 224, 586-593.	10.8	91
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785	Solution combustion synthesis of heterostructure bismuth titanate nanocomposites: Structural phases and its correlation with photocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 708-720.	3.8	10
786	A sustainable method toward melamine-based conjugated polymer semiconductors for efficient photocatalytic hydrogen production under visible light. <i>Green Chemistry</i> , 2018, 20, 664-670.	4.6	77
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789	Degradation of Azo dye direct black BN based on adsorption and microwave-induced catalytic reaction. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	10
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796	Comparison of importance between separation efficiency and valence band position: The case of heterostructured Bi <sub>3</sub> O <sub>4</sub> Br/Bi <sub>2</sub> O <sub>3</sub> photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 841-853.	10.8	99
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860	Target preparation of multicomponent composites Au@CdS/g-C <sub>3</sub> N <sub>4</sub> as efficient visible light photocatalysts with the assistance of biomolecules. <i>Materials Research Bulletin</i> , 2018, 108, 176-186.	2.7	26
862	Efficient gas phase VOC removal and electricity generation in an integrated bio-photo-electro-catalytic reactor with bio-anode and TiO <sub>2</sub> photo-electro-catalytic air cathode. <i>Bioresource Technology</i> , 2018, 270, 554-561.	4.8	32
863	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , 2018, 30, e1803641.	11.1	105
864	Cadmium selenide quantum dot-zinc oxide composite: Synthesis, characterization, dye removal ability with UV irradiation, and antibacterial activity as a safe and high-performance photocatalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 19-27.	1.7	69
865	Constructing Z-scheme based CoWO <sub>4</sub> /CdS photocatalysts with enhanced dye degradation and H <sub>2</sub> generation performance. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18242-18252.	3.8	82
866	One-Dimensional-Like Titania/4- <i>n</i> -Pentyl-4-Biphenylcarbonitrile Composite Synthesized Under Magnetic Field and its Structure-Photocatalytic Activity Relationship. <i>Frontiers in Chemistry</i> , 2018, 6, 370.	1.8	4
867	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018, 53, 296-336.	8.2	732
868	Visible-light-active g-C <sub>3</sub> N <sub>4</sub> /N-doped Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> heterojunctions as photocatalysts for the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2507-2515.	2.5	46
869	Oxygen vacancy induced bismuth basic nitrate with excellent photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18067-18073.	1.1	6
870	Facile synthesis and characterization of low crystalline Nb <sub>2</sub> O <sub>5</sub> ultrafine nanoparticles as a new efficient photocatalyst. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 371-376.	1.5	19
871	Doubling the photocatalytic performance of SnO <sub>2</sub> by carbon coating mixed-phase particles. <i>RSC Advances</i> , 2018, 8, 30366-30373.	1.7	7
872	Photocatalysis. , 2018, , 135-175.		107
873	One-step fabrication of carbon decorated Co <sub>3</sub> O <sub>4</sub> /BiVO <sub>4</sub> p-n heterostructure for enhanced visible-light photocatalytic properties. <i>Chemical Physics Letters</i> , 2018, 706, 440-447.	1.2	35
874	Efficient charge separation and visible-light response in bilayer HfS <sub>2</sub> -based van der Waals heterostructures. <i>RSC Advances</i> , 2018, 8, 18889-18895.	1.7	20
875	Cerium Metal-Organic Framework for Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7904-7912.	6.6	313
876	The unique photocatalysis properties of a 2D vertical MoO <sub>2</sub> /WO <sub>2</sub> heterostructure: a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 265106.	1.3	14
877	Two Ni(II) semiconducting metal-organic frameworks based on the tetrakis(4-carboxyphenyl)silane and an imidazole ligand: Syntheses, characterization, water stability and photoelectric properties. <i>Journal of Solid State Chemistry</i> , 2018, 265, 100-108.	1.4	5

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879	Construction of novel Sr <sub>0.4</sub> H <sub>1.2</sub> Nb <sub>2</sub> O <sub>6</sub> ·H <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> heterojunction with enhanced visible light photocatalytic activity for hydrogen evolution. Journal of Colloid and Interface Science, 2018, 526, 451-458.	5.0	26
880	Controllable Fabrication of Regular Hexagon-Shaped SnS <sub>2</sub> Nanoplates and Their Enhanced Visible-Light-Driven H <sub>2</sub> Production Activity. ACS Applied Nano Materials, 2018, 1, 2923-2933.	2.4	43
881	Ultrathin nanosheets of graphitic carbon nitride heterojunction with flower like Bi <sub>2</sub> O <sub>3</sub> for photodegradation of organic pollutants. Materials Research Express, 2018, 5, 055030.	0.8	4
882	One-step hydrothermal synthesis of MoS <sub>2</sub> / CdS nanocomposite and study of structural, photocatalytic, and optical properties of this nanocomposite. Optik, 2018, 169, 249-256.	1.4	28
883	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. Nano Energy, 2018, 50, 383-392.	8.2	226
884	A Short Review on Hydrogen, Biofuel, and Electricity Production Using Seawater as a Medium. Energy & Fuels, 2018, 32, 6423-6437.	2.5	53
885	Enhanced Photocatalytic Performance of Hierarchical ZnFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunction Composite Microspheres. Catalysis Letters, 2018, 148, 2179-2189.	1.4	31
886	Effect of crystalline/amorphous structure on light absorption and carrier separation of CeO <sub>2</sub> -TiO <sub>2</sub> heterojunctions. Applied Surface Science, 2018, 452, 49-57.	3.1	18
887	Fullerene stabilized gold nanoparticles supported on titanium dioxide for enhanced photocatalytic degradation of methyl orange and catalytic reduction of 4-nitrophenol. Journal of Environmental Chemical Engineering, 2018, 6, 3827-3836.	3.3	82
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889	In situ growth of cube-like AgCl on montmorillonite as an efficient photocatalyst for dye (Acid Red) Tj ETQq1 1 0.784314 rgBT <sub>19</sub> /Overlock	3.1	19
890	Graphene oxide and carbon nanodots co-modified BiOBr nanocomposites with enhanced photocatalytic 4-chlorophenol degradation and mechanism insight. Journal of Colloid and Interface Science, 2018, 527, 78-86.	5.0	39
891	Enhanced photocatalytic activity of surface disorder-engineered CaTiO <sub>3</sub> . Materials Research Bulletin, 2018, 105, 286-290.	2.7	128
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893	Synthesis and enhanced photocatalytic performance of Ag/AgCl/TiO <sub>2</sub> nanocomposites prepared by ion exchange method. Journal of Materiomics, 2018, 4, 402-411.	2.8	19
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899	Electron Transfer Controls the Photochemical Splitting of Water Mediated by a Titanocene Transition Metal Complex. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18412-18421.	1.5	6
900	A heterojunction strategy to improve the visible light sensitive water splitting performance of photocatalytic materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21696-21718.	5.2	244
901	Adsorption and photocatalytic study of dye degradation over the g-C <sub>3</sub> N <sub>4</sub> /W <sub>18</sub> O <sub>49</sub> nanocomposite. <i>Micro and Nano Letters</i> , 2018, 13, 541-545.	0.6	7
902	CNTs modified graphitic C <sub>3</sub> N <sub>4</sub> with enhanced visible-light photocatalytic activity for the degradation of organic pollutants. <i>Micro and Nano Letters</i> , 2018, 13, 752-757.	0.6	7
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905	Engineering and modeling the effect of Mg doping in TiO <sub>2</sub> for enhanced photocatalytic reduction of CO <sub>2</sub> to fuels. <i>Catalysis Science and Technology</i> , 2018, 8, 3686-3694.	2.1	38
906	Amorphous FeCoPOx nanowires coupled to g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced interfacial electronic transfer for boosting photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 161-167.	10.8	49
907	Defective Anatase TiO <sub>2</sub> Mesocrystal Growth In Situ on g-C <sub>3</sub> N <sub>4</sub> Nanosheets: Construction of 3D/2D Z-scheme Heterostructures for Highly Efficient Visible-light Photocatalysis. <i>Chemistry - A European Journal</i> , 2018, 24, 13311-13321.	1.7	46
908	Enhanced photocatalytic activity of Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> preferentially oriented growth along [200] with various surfactants. <i>Journal of Materials Science</i> , 2018, 53, 14217-14230.	1.7	17
909	In-situ construction of direct Z-scheme Bi <sub>2</sub> WO <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with remarkably promoted solar-driven photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2018, 217, 207-215.	2.0	40
910	Switching charge transfer process of carbon nitride and bismuth vanadate by anchoring silver nanoparticle toward cocatalyst free water reduction. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 375-384.	5.0	27
911	Imaging photogenerated charge carriers on surfaces and interfaces of photocatalysts with surface photovoltage microscopy. <i>Chemical Society Reviews</i> , 2018, 47, 8238-8262.	18.7	343
912	Flake-like InVO <sub>4</sub> modified TiO <sub>2</sub> nanofibers with longer carrier lifetimes for visible-light photocatalysts. <i>RSC Advances</i> , 2018, 8, 27073-27079.	1.7	13
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915	Environment-friendly Ag/CDots/g-C <sub>3</sub> N <sub>4</sub> photocatalysts: Remarkably enhanced photocatalytic tetracycline degradation in visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 365, 23-31.	2.0	12
916	Effect of electronic migration of MIL-53(Fe) on the activation of peroxymonosulfate under visible light. <i>Chemical Physics Letters</i> , 2018, 706, 694-701.	1.2	53
917	Ag <sub>2</sub> WO <sub>4</sub> nanorods decorated with AgI nanoparticles: Novel and efficient visible-light-driven photocatalysts for the degradation of water pollutants. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1308-1316.	1.5	22
918	Phosphorus-doped cerium vanadate nanorods with enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 618-627.	5.0	27
919	Architecture of high efficient zinc vacancy mediated Z-scheme photocatalyst from metal-organic frameworks. <i>Nano Energy</i> , 2018, 52, 105-116.	8.2	179
920	Ag <sub>3</sub> PO <sub>4</sub> @MIL-53(Fe) Composites with Visible-Light-Enhanced Photocatalytic Activities for Rhodamine B Degradation. <i>ChemistrySelect</i> , 2018, 3, 8045-8050.	0.7	16
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922	A Mn <sub>13</sub> -cluster based coordination polymer as a co-catalyst of CdS for enhanced visible-light driven H <sub>2</sub> evolution. <i>Dalton Transactions</i> , 2018, 47, 10857-10860.	1.6	7
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925	Synthesis of ZnWO <sub>4</sub> <sup>x</sup> nanorods with oxygen vacancy for efficient photocatalytic degradation of tetracycline. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 408-415.	1.8	61
926	Metal-based semiconductor nanomaterials for photocatalysis. , 2018, , 187-213.		3
927	TiO <sub>2</sub> nanotubes co-modified by Ag/AgCl plasmonic photocatalyst and graphene and a comparison of their enhanced photocatalytic performance under ultraviolet and visible light. <i>Materials Research Express</i> , 2018, 5, 085028.	0.8	3
928	Highly Efficient and Visible Light Responsive Heterojunction Composites as Dual Photoelectrodes for Photocatalytic Fuel Cell. <i>Catalysts</i> , 2018, 8, 30.	1.6	19
929	Insight into sulfamethoxazole degradation, mechanism, and pathways by AgBr-BaMoO <sub>4</sub> composite photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 686-695.	2.0	58
930	Construction of 2D/2D layered g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>12</sub> O <sub>17</sub> Cl <sub>2</sub> hybrid material with matched energy band structure and its improved photocatalytic performance. <i>RSC Advances</i> , 2018, 8, 24500-24508.	1.7	43
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933	Low-temperature construction of MoS <sub>2</sub> quantum dots/ZnO spheres and their photocatalytic activity under natural sunlight. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 714-724.	5.0	32
934	Enhanced Photocatalytic Activity toward Organic Pollutants Degradation and Mechanism Insight of Novel CQDs/Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Composite. <i>Nanomaterials</i> , 2018, 8, 330.	1.9	19
935	Gradual carbon doping of graphitic carbon nitride towards metal-free visible light photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15310-15319.	5.2	108
936	A novel Ag@AgBr-Ag <sub>2</sub> Mo <sub>3</sub> O <sub>10</sub> ternary core-shell photocatalyst: Energy band modification and additional superoxide radical production. <i>Applied Surface Science</i> , 2018, 458, 1-9.	3.1	19
937	Visible light induced electron transfer from a semiconductor to an insulator enables efficient photocatalytic activity on insulator-based heterojunctions. <i>Nanoscale</i> , 2018, 10, 15513-15520.	2.8	53
938	Photo-switchable pure water splitting under visible light over nano-Pt@P25 by recycling scattered photons. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 140-146.	10.8	15
939	Synthesis of Ag nanoparticles as cocatalyst onto CdSe/Al <sub>2</sub> TiO <sub>5</sub> composite photocatalysts for enhancing photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 686-693.	3.3	7
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941	Preparation of PbS and CdS cosensitized graphene/TiO <sub>2</sub> nanosheets for photoelectrochemical protection of 304 stainless steels. <i>Applied Surface Science</i> , 2018, 452, 58-66.	3.1	29
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943	Ag <sub>3</sub> VO <sub>4</sub> /BiOIO <sub>3</sub> heterojunction with enhanced visible-light-driven catalytic activity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 177-185.	2.7	25
944	Ultrathin two-dimensional BiOBr <sub>1-x</sub> solid solution with rich oxygen vacancies for enhanced visible-light-driven photoactivity in environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 222-232.	10.8	183
945	Synthesis of <i>AgVO<sub>3</sub></i> nanowires decorated with <i>Ag<sub>2</sub>CrO<sub>4</sub></i> , with improved visible light photocatalytic performance. <i>Semiconductor Science and Technology</i> , 2018, 33, 055010.	1.0	9
946	Review on nanoscale Bi-based photocatalysts. <i>Nanoscale Horizons</i> , 2018, 3, 464-504.	4.1	421
947	Potential application of a porous graphitic carbon nitride as an organic metal-free photocatalyst for water splitting. <i>Diamond and Related Materials</i> , 2018, 87, 50-55.	1.8	27
948	Towards click chemistry: Multicomponent reactions via combinations of name reactions. <i>Tetrahedron</i> , 2018, 74, 3391-3457.	1.0	50
949	Synthesis of poly( <i>N</i> -isopropylacrylamide)- <i>co</i> -(acrylic acid) microgel-entrapped CdS quantum dots and their photocatalytic degradation of an organic dye. <i>RSC Advances</i> , 2018, 8, 16850-16857.	1.7	15

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951	Robust photocatalytic hydrogen evolution over amorphous ruthenium phosphide quantum dots modified g-C <sub>3</sub> N <sub>4</sub> nanosheet. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 578-585.	10.8	193
952	Layered Heterostructures of Ultrathin Polymeric Carbon Nitride and ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets for Photocatalytic CO <sub>2</sub> Reduction. <i>Chemistry - A European Journal</i> , 2018, 24, 18529-18534.	1.7	116
953	Silver-loaded ZnO/ZnFe <sub>2</sub> O <sub>4</sub> mesoporous hollow spheres with enhanced photocatalytic activity for 2,4-dichlorophenol degradation under visible light irradiation. <i>Materials Research Bulletin</i> , 2018, 107, 339-346.	2.7	13
954	Fe-doped SnO <sub>2</sub> decorated reduced graphene oxide nanocomposite with enhanced visible light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 145-155.	2.0	26
955	Nano/microsized TiO <sub>2</sub> composite photocatalysts for environmental purification. <i>Journal of the Ceramic Society of Japan</i> , 2018, 126, 625-631.	0.5	4
956	Efficient visible-light-driven hydrogen evolution over ternary MoS <sub>2</sub> /Pt TiO <sub>2</sub> photocatalysts with low overpotential. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16534-16542.	3.8	20
957	Preparation and performance of Cu <sub>2</sub> O/TiO <sub>2</sub> nanocomposite thin film and photocatalytic degradation of Rhodamine B. <i>Water Science and Technology</i> , 2018, 78, 913-924.	1.2	9
958	Sodium-doped C <sub>3</sub> N <sub>4</sub> /MOF Heterojunction Composites with Tunable Band Structures for Photocatalysis: Interplay between Light Harvesting and Electron Transfer. <i>Chemistry - A European Journal</i> , 2018, 24, 18403-18407.	1.7	85
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960	Visible light induced efficient hydrogen production through semiconductor-conductor-semiconductor (S-C-S) interfaces formed between g-C <sub>3</sub> N <sub>4</sub> and rGO/Fe <sub>2</sub> O <sub>3</sub> core-shell composites. <i>Catalysis Science and Technology</i> , 2018, 8, 5081-5090.	2.1	39
961	Au-Cd <sub>1-x</sub> Zn <sub>x</sub> S core-alloyed shell nanocrystals: boosting the interfacial charge dynamics by adjusting the shell composition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17503-17513.	5.2	43
962	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 187-195.	10.8	145
963	Synergistic effect between the redox property and acidity on enhancing the low temperature NH <sub>3</sub> -SCR activity for NO removal over the Co <sub>0.2</sub> Ce <sub>x</sub> Mn <sub>0.8-x</sub> Ti <sub>10</sub> (x=0.0-0.40) oxides catalysts. <i>Chemical Engineering Journal</i> , 2018, 354, 393-406.	6.6	69
964	Mechanistic insights into plasmonic photocatalysts in utilizing visible light. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 628-648.	1.5	54
965	Preparation of TiO <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> heterojunctions on carbon-fiber cloth as efficient filter-membrane-shaped photocatalyst for removing various pollutants from the flowing wastewater. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 798-807.	5.0	85
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967	UV-Vis-IR driven thermocatalytic activity of OMS-2/SnO <sub>2</sub> nanocomposite significantly enhanced by novel photoactivation and synergetic photocatalysis-thermocatalysis. <i>Applied Surface Science</i> , 2018, 462, 590-597.	3.1	26

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969	Phase transformation and microwave hydrothermal guided a novel double Z-scheme ternary vanadate heterojunction with highly efficient photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 449-463.	10.8	131
970	SiC/MoS <sub>2</sub> layered heterostructures: Promising photocatalysts revealed by a first-principles study. <i>Materials Chemistry and Physics</i> , 2018, 216, 64-71.	2.0	63
971	Synthesis and enhanced photocatalytic activity of Cu(OH) <sub>2</sub> cluster modified Bi <sub>2</sub> WO <sub>6</sub> toward RhB degradation. <i>Materials Technology</i> , 2018, 33, 513-523.	1.5	8
972	Light harvesting and charge management by Ni <sub>4</sub> S <sub>3</sub> modified metal-organic frameworks and rGO in the process of photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 44-52.	5.0	60
973	Flower-like Bi <sub>2</sub> WO <sub>6</sub> /ZnO composite with excellent photocatalytic capability under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 810-820.	6.9	55
974	Enhanced visible light catalytic activity of MoS <sub>2</sub> /TiO <sub>2</sub> /Ti photocathode by hybrid-junction. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 416-423.	10.8	24
975	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , 2018, 10, 3424-3428.	1.8	14
976	Fabrication of FTO/BiVO <sub>4</sub> /WO <sub>3</sub> photoanode for improving photoelectrochemical performance: based on the Z-scheme electron transfer mechanism. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12956-12961.	5.2	37
977	Synthesis of BiOCl nanosheets with exposed (010) facets via a facile two-phase reaction and photocatalytic activity. <i>Ferroelectrics</i> , 2018, 527, 37-43.	0.3	2
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1037	TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> heterostructures with enhanced photocatalytic reduction of Cr(VI) under visible light irradiation. <i>RSC Advances</i> , 2019, 9, 22764-22771.	1.7	60
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1050	3D cross-linked BiOI decorated ZnO/CdS nanorod arrays: A cost-effective hydrogen evolution photoanode with high photoelectrocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21865-21872.	3.8	51
1051	The Electronic Structure and Optical Properties of Two-Dimensional BiOX <sub>3</sub> (X = Cl, Br). <i>TJ ETQq0 0 0 rgBT</i>	0.7	2
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1095	<i>In situ</i> hydrothermal etching fabrication of CaTiO <sub>3</sub> on TiO <sub>2</sub> nanosheets with heterojunction effects to enhance CO <sub>2</sub> adsorption and photocatalytic reduction. <i>Catalysis Science and Technology</i> , 2019, 9, 336-346.	2.1	56
1096	Enhanced trimethoxypyrimidine degradation by piezophotocatalysis of BaTiO <sub>3</sub> /Ag <sub>3</sub> PO <sub>4</sub> using mechanical vibration and visible light simultaneously. <i>Environmental Science: Nano</i> , 2019, 6, 554-564.	2.2	41
1097	Semiconductor-Based Nanocomposites for Photodegradation of Organic Pollutants. , 2019, , 25-58.		3
1098	Unraveling the impact of the Pd nanoparticle@BiVO <sub>4</sub> /S-CN heterostructure on the photo-physical & opto-electronic properties for enhanced catalytic activity in water splitting and one-pot three-step tandem reaction. <i>Nanoscale Advances</i> , 2019, 1, 1395-1412.	2.2	15
1099	<i>In situ</i> reduction and exfoliation of g-C <sub>3</sub> N <sub>4</sub> nanosheets with copious active sites <i>via</i> a thermal approach for effective water splitting. <i>Catalysis Science and Technology</i> , 2019, 9, 1004-1012.	2.1	33
1100	Synthesis and photocatalytic properties of electrodeposited bismuth oxyiodide on rutile/anatase TiO <sub>2</sub> heterostructure. <i>Materials Research Express</i> , 2019, 6, 055905.	0.8	6
1101	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. <i>Advanced Functional Materials</i> , 2019, 29, 1808079.	7.8	95
1102	2D/2D Heterojunctions for Catalysis. <i>Advanced Science</i> , 2019, 6, 1801702.	5.6	224
1103	Perspective on construction of heterojunction photocatalysts and the complete utilization of photogenerated charge carriers. <i>Applied Surface Science</i> , 2019, 476, 982-992.	3.1	101
1104	NiSe as an effective co-catalyst coupled with TiO <sub>2</sub> for enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4821-4831.	3.8	66
1105	Novel magnetic amine functionalized carbon nanotube/metal-organic framework nanocomposites: From green ultrasound-assisted synthesis to detailed selective pollutant removal modelling from binary systems. <i>Journal of Hazardous Materials</i> , 2019, 368, 746-759.	6.5	131
1106	Nanoscale hetero-interfaces between metals and metal compounds for electrocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5090-5110.	5.2	128
1107	Synthesis of a Cu <sub>2</sub> O/Carbon Film/NiCoB@Graphene Oxide Heterostructure as Photocathode for Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 2004-2012.	1.7	13
1108	CdS Photocatalysts Modified with Ag: Effect of the Solvothermal Temperature on the Structure and Photoactivity for Hydrogen Production. <i>Catalysts</i> , 2019, 9, 110.	1.6	14
1109	Interaction-Dependent Interfacial Charge-Transfer Behavior in Solar Water-Splitting Systems. <i>Nano Letters</i> , 2019, 19, 1234-1241.	4.5	42
1110	Environmentally benign synthesis of Co <sub>3</sub> O <sub>4</sub> -SnO <sub>2</sub> heteronanorods with efficient photocatalytic performance activated by visible light. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 460-468.	5.0	49
1111	ZnTe/ZnSe heterostructures: In-situ synthesis, characterization and photocatalytic activity for Congo Red degradation. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	13
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1114	CuSbSe <sub>2</sub> /TiO <sub>2</sub> : novel type-II heterojunction nano-photocatalyst. <i>Materials Chemistry Frontiers</i> , 2019, 3, 437-449.	3.2	22
1115	Achieving an exceptionally high loading of isolated cobalt single atoms on a porous carbon matrix for efficient visible-light-driven photocatalytic hydrogen production. <i>Chemical Science</i> , 2019, 10, 2585-2591.	3.7	50
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1117	ZnS-CdS-TaON nanocomposites with enhanced stability and photocatalytic hydrogen evolution activity. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 91, 82-91.	1.1	18
1118	Investigation of photodegradation of rhodamine B over a BiOX (X=Cl, Br and I) photocatalyst under white LED irradiation. <i>Bulletin of Materials Science</i> , 2019, 42, .	0.8	20
1119	Enhanced Interfacial Charge Transfer and Separation Rate based on Sub 10 nm MoS <sub>2</sub> Nanoflakes In Situ Grown on Graphitic-C <sub>3</sub> N <sub>4</sub> . <i>Advanced Materials Interfaces</i> , 2019, 6, 1900554.	1.9	33
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1124	Interfacial restructuring of carbon nitride polymers for visible-light photocatalysis. <i>Chemical Communications</i> , 2019, 55, 8235-8237.	2.2	9
1125	Encapsulated MWCNT@MOF-derived In <sub>2</sub> S <sub>3</sub> tubular heterostructures for boosted visible-light-driven degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117882.	10.8	92
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1130	An on-demand solar hydrogen-evolution system for unassisted high-efficiency pure-water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17315-17323.	5.2	17

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1133	Photoactive nanoarchitectures based on clays incorporating $\text{TiO}_2$ and ZnO nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1140-1156.	1.5	50
1134	Coal tar pitch as natural carbon quantum dots decorated on $\text{TiO}_2$ for visible light photodegradation of rhodamine B. <i>Carbon</i> , 2019, 152, 284-294.	5.4	75
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1138	Cobalt porphyrin (CoTCPP) advanced visible light response of g-C $_3$ N $_4$ nanosheets. <i>Sustainable Materials and Technologies</i> , 2019, 22, e00114.	1.7	9
1139	In situ photochemical fabrication of CdS/g-C $_3$ N $_4$ nanocomposites with high performance for hydrogen evolution under visible light. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117848.	10.8	105
1140	A facile hydrothermal synthesis of visible-light responsive $\text{BiFeWO}_6/\text{MoS}_2$ composite as superior photocatalyst for degradation of organic pollutants. <i>Ceramics International</i> , 2019, 45, 18683-18690.	2.3	72
1141	Synthesis and photo-catalytic activity of porous g-C $_3$ N $_4$ : Promotion effect of nitrogen vacancy in $\text{H}_2$ evolution and pollutant degradation reactions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16315-16326.	3.8	105
1142	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1900281.	11.1	307
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1145	One-step synthesis of oxygen vacancy-rich $\text{SnO}_2$ quantum dots with ultrahigh visible-light photocatalytic activity. <i>Materials Research Bulletin</i> , 2019, 118, 110486.	2.7	16
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1150	Eco-friendly and high-performance photoelectrochemical anode based on AgInS <sub>2</sub> quantum dots embedded in 3D graphene nanowalls. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9830-9839.	2.7	48
1151	Toward large-scale water treatment using nanomaterials. <i>Nano Today</i> , 2019, 27, 11-27.	6.2	94
1152	Revealing important role of graphitic carbon nitride surface catalytic activity in photocatalytic hydrogen evolution by using different carbon co-catalysts. <i>Applied Surface Science</i> , 2019, 491, 236-244.	3.1	14
1153	Recent Advances in Carbonaceous Photocatalysts with Enhanced Photocatalytic Performances: A Mini Review. <i>Materials</i> , 2019, 12, 1916.	1.3	93
1154	A Co(OH) <sub>x</sub> nanolayer integrated planar WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> photoanode for efficient photoelectrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2135-2141.	2.5	12
1155	Enhanced photocatalytic activity towards H <sub>2</sub> evolution over NiO via phosphonic acid surface modification with different functional groups. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16575-16581.	3.8	14
1156	Novel Tm <sup>3+</sup> and Yb <sup>3+</sup> co-doped bismuth tungstate up-conversion photocatalyst with greatly improved photocatalytic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111864.	2.0	27
1157	A Theoretical Perspective on Charge Separation and Transfer in Metal Oxide Photocatalysts for Water Splitting. <i>ChemCatChem</i> , 2019, 11, 3688-3715.	1.8	27
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1160	Enhanced visible light photocatalytic activity of AgI/TiO <sub>2</sub> composite fabricated by a grinding method. <i>Water Quality Research Journal of Canada</i> , 2019, 54, 257-264.	1.2	1
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1162	Insight into efficient photocatalytic elimination of tetracycline over SrTiO <sub>3</sub> (La,Cr) under visible-light irradiation: The relationship of doping and performance. <i>Applied Surface Science</i> , 2019, 486, 93-101.	3.1	42
1163	Photocatalytic membrane in water purification: is it stepping closer to be driven by visible light?. <i>Journal of Membrane Science</i> , 2019, 584, 364-392.	4.1	168
1164	Review on heterophase/homophase junctions for efficient photocatalysis: The case of phase transition construction. <i>Chinese Journal of Catalysis</i> , 2019, 40, 796-818.	6.9	96
1165	Critical Aspects and Recent Advances in Structural Engineering of Photocatalysts for Sunlight-Driven Photocatalytic Reduction of CO <sub>2</sub> into Fuels. <i>Advanced Functional Materials</i> , 2019, 29, 1901825.	7.8	315
1166	Interfacial structure and properties of TiO <sub>2</sub> phase junction studied by DFT calculations. <i>Applied Surface Science</i> , 2019, 485, 8-21.	3.1	14

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1169	Enhancement of the degradation ability for organic pollutants via the synergistic effect of photoelectrocatalysis on a self-assembled perylene diimide (SA-PDI) thin film. Science Bulletin, 2019, 64, 896-903.	4.3	34
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1172	Two dimensional InSe/C <sub>2</sub> N van der Waals heterojunction as enhanced visible-light-responsive photocatalyst for water splitting. Applied Surface Science, 2019, 485, 375-380.	3.1	61
1173	Metal-organic frameworks with photocatalytic bactericidal activity for integrated air cleaning. Nature Communications, 2019, 10, 2177.	5.8	476
1174	Single-crystalline melem (C <sub>6</sub> N <sub>10</sub> H <sub>6</sub> ) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. Journal of Materials Chemistry A, 2019, 7, 13234-13241.	5.2	22
1175	Unprecedented Eighteen-Faceted BiOCl with a Ternary Facet Junction Boosting Cascade Charge Flow and Photo-redox. Angewandte Chemie, 2019, 131, 9617-9621.	1.6	21
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1179	Synthesis of MoS <sub>2</sub> /CdS Heterostructures on Carbon Fiber Cloth as Filter-Membrane Shaped Photocatalyst for Purifying the Flowing Wastewater under Visible Light Illumination. ChemCatChem, 2019, 11, 2855-2863.	1.8	49
1180	Nitrogen-doped black TiO <sub>2</sub> spheres with enhanced visible light photocatalytic performance. SN Applied Sciences, 2019, 1, 1.	1.5	12
1181	Fabrication of visible-light-active Bi/BiOI-Bi <sub>2</sub> O <sub>3</sub> composite with enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2019, 548, 255-264.	5.0	51
1182	Rationally designed Fe <sub>2</sub> O <sub>3</sub> /GO/WO <sub>3</sub> Z-Scheme photocatalyst for enhanced solar light photocatalytic water remediation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 74-84.	2.0	63
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1184	Using van der Waals heterostructures based on two-dimensional blue phosphorus and XC (X = Ge, Si) for water-splitting photocatalysis: a first-principles study. Physical Chemistry Chemical Physics, 2019, 21, 9949-9956.	1.5	23

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1186	Fabrication of strong internal electric field ZnS/Fe <sub>9</sub> S <sub>10</sub> heterostructures for highly efficient sodium ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11771-11781.	5.2	83
1187	Band structure engineering of boron-oxygen-based materials for efficient charge separation. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1440-1448.	3.2	5
1188	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. <i>Energy and Environmental Science</i> , 2019, 12, 2345-2374.	15.6	88
1189	AgBr/(Sr <sub>0.6</sub> Bi <sub>0.305</sub> ) <sub>2</sub> Bi <sub>2</sub> O <sub>7</sub> Heterostructured Composites: Fabrication, Characterization, and Significantly Enhanced Photocatalytic Activity. <i>Catalysts</i> , 2019, 9, 394.	1.6	6
1190	2D sp <sup>2</sup> Carbon-Conjugated Covalent Organic Frameworks for Photocatalytic Hydrogen Production from Water. <i>Chem</i> , 2019, 5, 1632-1647.	5.8	408
1191	Emerging approach in semiconductor photocatalysis: Towards 3D architectures for efficient solar fuels generation in semi-artificial photosynthetic systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 39, 142-160.	5.6	34
1192	Facile Synthesis of Ag/ZnO Hollow Microspheres with Enhanced Photocatalytic Performance under Simulated Sunlight Irradiation. <i>Nano</i> , 2019, 14, 1950036.	0.5	4
1193	All-solid-state Z-scheme WO <sub>3</sub> /HTiNbO <sub>5</sub> -NS heterojunctions with enhanced photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2019, 276, 104-113.	1.4	16
1194	Aqueous synthesis of highly monodisperse sub-100 nm AgCl nanospheres/cubes and their plasmonic nanomesh replicas as visible-light photocatalysts and single SERS probes. <i>Nanotechnology</i> , 2019, 30, 295604.	1.3	7
1195	Multicomponent Oxynitride Thin Films: Precise Growth Control and Excited State Dynamics. <i>Chemistry of Materials</i> , 2019, 31, 3461-3467.	3.2	7
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1201	Study of visible-light photocatalytic degradation of 2,4-dichlorophenoxy acetic acid in batch and circulated-mode photoreactors. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2019, 17, 233-245.	1.4	4
1202	Designing 3D magnetic peony flower-like cobalt oxides/g-C <sub>3</sub> N <sub>4</sub> dual Z-scheme photocatalyst for remarkably enhanced sunlight driven photocatalytic redox activity. <i>Chemical Engineering Journal</i> , 2019, 369, 947-956.	6.6	117

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1204	Preparation of Bi <sub>2</sub> MoO <sub>6</sub> @BiO <sub>2</sub> COOH plate-on-plate heterojunction photocatalysts with significantly improved photocatalytic performance under visible light irradiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 326-335.	2.7	21
1205	Interfacial engineering of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based metal sulfide heterojunction photocatalysts for energy conversion: A review. <i>Chinese Journal of Catalysis</i> , 2019, 40, 289-319.	6.9	413
1206	One-step low-temperature synthesis of 0D CeO <sub>2</sub> quantum dots/2D BiOX (X = Cl, Br) nanoplates heterojunctions for highly boosting photo-oxidation and reduction ability. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 17-30.	10.8	122
1207	Construction of hierarchical hetero-structured TiO <sub>2</sub> photoanodes for dye-sensitized solar energy conversion: Case study of anatase nanobranches on rutile nanorod arrays. <i>Chemical Physics</i> , 2019, 522, 129-133.	0.9	7
1208	Visible Light-Driven Catalysts for Water Oxidation: Towards Solar Fuel Biorefineries. <i>Studies in Surface Science and Catalysis</i> , 2019, 178, 65-84.	1.5	11
1209	Flexible, auxetic and strain-tunable two dimensional penta-X <sub>2</sub> C family as water splitting photocatalysts with high carrier mobility. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7791-7799.	5.2	66
1210	Synthesis and photocatalytic properties of BiOI/NiFe <sub>2</sub> O <sub>4</sub> composites. <i>Materials Research Express</i> , 2019, 6, 066207.	0.8	2
1211	Facile ultrasound-driven formation and deposition of few-layered MoS <sub>2</sub> nanosheets on CdS for highly enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019, 481, 795-801.	3.1	22
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1259	Metal chalcogenide quantum dot-sensitized 1D-based semiconducting heterostructures for optical-related applications. <i>Energy and Environmental Science</i> , 2019, 12, 1454-1494.	15.6	19
1260	Template-free synthesis of Na <sub>0.5</sub> Bi <sub>2.5</sub> Ta <sub>2</sub> O <sub>9</sub> /Bi <sub>4</sub> TaO <sub>8</sub> Cl nano-heterostructures via a one-pot molten salt reaction for efficient photocatalysis. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2936-2942.	2.7	4
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1348	Revealing the role of kapok fibre as bio-template for In-situ construction of C-doped g-C <sub>3</sub> N <sub>4</sub> @C, N co-doped TiO <sub>2</sub> core-shell heterojunction photocatalyst and its photocatalytic hydrogen production performance. <i>Applied Surface Science</i> , 2019, 476, 205-220.	3.1	66
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1354	Surface decoration of BiOCl with BiVO <sub>4</sub> particles towards enhanced visible-light-driven photocatalytic performance. <i>Materials Research Express</i> , 2019, 6, 045512.	0.8	4
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1588	Emerging Concepts in Carbon Nitride Organic Photocatalysis. <i>ChemPlusChem</i> , 2020, 85, 2499-2517.	1.3	47
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1810	Iodine doped Z-scheme Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> photocatalysts: Facile synthesis, efficient visible light photocatalysis, and photocatalytic mechanism. <i>Chemical Engineering Journal</i> , 2021, 403, 126327.	6.6	106
1811	Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications. <i>Chemical Engineering Journal</i> , 2021, 403, 126099.	6.6	84
1812	Boron doping induced charge transfer switching of a C <sub>3</sub> N <sub>4</sub> /ZnO photocatalyst from Z-scheme to type II to enhance photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119538.	10.8	303
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1814	Progress and perspectives of bismuth oxyhalides in catalytic applications. <i>Materials Today Physics</i> , 2021, 16, 100294.	2.9	37
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1817	Recent advances in photocatalytic removal of organic and inorganic pollutants in air. <i>Journal of Cleaner Production</i> , 2021, 278, 123895.	4.6	103
1818	Preparation of Zn <sub>2</sub> GeO <sub>4</sub> nanosheets with MIL-125(Ti) hybrid photocatalyst for improved photodegradation of organic pollutants. <i>Materials Research Bulletin</i> , 2021, 133, 111013.	2.7	10
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1821	In situ fabrication of ultrathin-g-C <sub>3</sub> N <sub>4</sub> /AgI heterojunctions with improved catalytic performance for photodegrading rhodamine B solution. <i>Applied Surface Science</i> , 2021, 538, 148132.	3.1	32
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1865	A critical review on modulation of NiMoO <sub>4</sub> -based materials for photocatalytic applications. <i>Journal of Environmental Management</i> , 2021, 278, 111562.	3.8	27
1866	Advances in 2D/2D Z-scheme Heterojunctions for Photocatalytic Applications. <i>Solar Rrl</i> , 2021, 5, 2000397.	3.1	82
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1886	Construction and photocatalytic properties of WS <sub>2</sub> /MoS <sub>2</sub> /BiOCl heterojunction. <i>Chemical Physics Letters</i> , 2021, 763, 138203.	1.2	20
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1889	Z-Scheme <i>versus</i> type-II junction in g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> and g-C <sub>3</sub> N <sub>4</sub> /SrTiO <sub>3</sub> /TiO <sub>2</sub> heterostructures. Catalysis Science and Technology, 2021, 11, 3589-3598.	2.1	25
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1897	Practical strategies for enhanced performance of anode materials in Na <sup>+</sup> /K <sup>+</sup> -ion batteries. Journal of Materials Chemistry A, 2021, 9, 7317-7335.	5.2	41
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1936	Fabrication of 1D/2D CdS/CoS <sub>x</sub> direct Z-scheme photocatalyst with enhanced photocatalytic hydrogen evolution performance. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9351-9359.	3.8	24
1937	Photocatalytic and Thermocatalytic Conversion of Methane. <i>Solar Rrl</i> , 2021, 5, 2000596.	3.1	16
1938	Z-scheme g-C <sub>3</sub> N <sub>4</sub> /C/S-g-C <sub>3</sub> N <sub>4</sub> heterostructural nanotube with enhanced porous structure and visible light driven photocatalysis. <i>Microporous and Mesoporous Materials</i> , 2021, 314, 110891.	2.2	34
1939	Fabrication of Mesoporous Pt@ZnO Nanocomposites with Promoted Photocatalytic Performance for Degradation of Tetracycline. <i>ACS Omega</i> , 2021, 6, 6438-6447.	1.6	30
1940	Synthesis and electrochemical characterization of Si/TiO <sub>2</sub> /Au composite anode: Efficient oxygen evolution and hydroxyl radicals generation. <i>Electrochimica Acta</i> , 2021, 370, 137742.	2.6	8
1941	Developing cuprospinel CuFe <sub>2</sub> O <sub>4</sub> @ZnO semiconductor heterostructure as a proton conducting electrolyte for advanced fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9927-9937.	3.8	33

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1943	New advances in accurate monitoring of breast cancer biomarkers by electrochemistry, electrochemiluminescence, and photoelectrochemistry. Journal of Electroanalytical Chemistry, 2021, 882, 115010.	1.9	13
1944	Newly emerging borate-based nonlinear optical materials for organic pollutant degradation: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 2227-2269.	6.6	10
1945	Insights into the complementary behaviour of Gd doping in GO/Cd/ZnO composites as an efficient candidate towards photocatalytic degradation of indigo carmine dye. Journal of Materials Science, 2021, 56, 8511-8527.	1.7	16
1946	Rationalize the Significantly Enhanced Photocatalytic Efficiency of In <sup>3+</sup> -doped In <sub>2</sub> -Ga <sub>2</sub> S <sub>3</sub> by Bond Theory and Local Structural Distortion. Journal of Physical Chemistry Letters, 2021, 12, 1772-1776.	2.1	6
1948	A review on mechanisms and recent developments in p-n heterojunctions of 2D materials for gas sensing applications. Journal of Materials Science, 2021, 56, 9575-9604.	1.7	64
1949	Insight into the enhanced photocatalytic properties of AgBr/Ag <sub>4</sub> P <sub>2</sub> O <sub>7</sub> composites synthesized via in situ ion exchange reaction. Journal of Environmental Chemical Engineering, 2021, 9, 104889.	3.3	4
1950	Fabrication of Robust Covalent Organic Frameworks for Enhanced Visible-Light-Driven H <sub>2</sub> Evolution. ACS Catalysis, 2021, 11, 2098-2107.	5.5	116
1951	Nature and Role of Surface Junctions in BiOIO <sub>3</sub> Photocatalysts. Advanced Functional Materials, 2021, 31, 2009472.	7.8	20
1952	In Situ Construction of Direct Z-scheme Cs <sub>x</sub> WO <sub>3</sub> /CsPbBr <sub>3</sub> Heterojunctions via Cosharing Cs Atom. Solar Rrl, 2021, 5, 2100036.	3.1	11
1953	Review on the Visible Light Photocatalysis for the Decomposition of Ciprofloxacin, Norfloxacin, Tetracyclines, and Sulfonamides Antibiotics in Wastewater. Catalysts, 2021, 11, 437.	1.6	65
1956	Tuning the Electronic Bandgap of Graphdiyne by H-substitution to Promote Interfacial Charge Carrier Separation for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2021, 31, 2100994.	7.8	41
1957	Biomass-derived active Carbon@ZnO/SnO <sub>2</sub> novel visible-light photocatalyst for rapid degradation of linezolid antibiotic and imidacloprid insecticide. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 313-324.	2.7	27
1958	MIL-101(Fe) nanodot-induced improvement of adsorption and photocatalytic activity of carbon fiber/TiO <sub>2</sub> -based weavable photocatalyst for removing pharmaceutical pollutants. Journal of Cleaner Production, 2021, 290, 125782.	4.6	52
1959	Advances in nanomaterials for heterogeneous photocatalysis. Nano Express, 2021, 2, 012005.	1.2	25
1960	Drawing on Membrane Photocatalysis for Fouling Mitigation. ACS Applied Materials & Interfaces, 2021, 13, 14844-14865.	4.0	87
1961	Robust Co <sub>9</sub> S <sub>8</sub> @CdIn <sub>2</sub> S <sub>4</sub> Cage for Efficient Photocatalytic H <sub>2</sub> Evolution. Journal of Physical Chemistry C, 2021, 125, 5099-5109.	1.5	44
1962	Design of BiOBr nanosheets decorated SiC whisker hybrid structure with enhanced photocatalytic performance. Applied Surface Science, 2021, 543, 148779.	3.1	15

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1964	Novel magnetically retrievable In <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> nanocomposite materials for enhanced photocatalytic performance. <i>Scientific Reports</i> , 2021, 11, 6379.	1.6	19
1965	Regulating the interface defect of TiO <sub>2</sub> /Ag <sub>2</sub> O nanoheterojunction and its effect on photogenerated carrier dynamics. <i>Nanotechnology</i> , 2021, 32, 225704.	1.3	7
1966	Enhanced Visible-Light-Driven Hydrogen Production through MOF/MOF Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14239-14247.	4.0	73
1967	Ag@CdS Yolk-Shell Heteronanostructures for Plasmon-Enhanced Photocatalysis. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 806-809.	1.0	11
1968	In-situ construction of novel naphthalenediimide/metal-iodide hybrid heterostructures for enhanced photoreduction of Cr (VI). <i>Dyes and Pigments</i> , 2021, 187, 109146.	2.0	9
1969	Hierarchical OD NiSe <sub>2</sub> /2D ZnIn <sub>2</sub> S <sub>4</sub> Nanosheet-Assembled Microflowers for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100052.	1.9	34
1970	Synergistic effect of hierarchical structure and Z-scheme heterojunction constructed by CdS nanoparticles and nanoflower-structured Co <sub>9</sub> S <sub>8</sub> with significantly enhanced photocatalytic hydrogen production performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 409, 113160.	2.0	21
1971	Selective recovery of precious metals through photocatalysis. <i>Nature Sustainability</i> , 2021, 4, 618-626.	11.5	188
1972	Emerging polymeric carbon nitride Z-scheme systems for photocatalysis. <i>Cell Reports Physical Science</i> , 2021, 2, 100355.	2.8	99
1973	Semiconductor-based nanocomposites for selective organic synthesis. <i>Nano Select</i> , 2021, 2, 1799.	1.9	1
1974	Hierarchical bismuth vanadate/reduced graphene oxide composite photocatalyst for hydrogen evolution and bisphenol A degradation. <i>Applied Materials Today</i> , 2021, 22, 100963.	2.3	23
1975	Junction and energy band on novel semiconductor-based fuel cells. <i>IScience</i> , 2021, 24, 102191.	1.9	45
1976	Highly Efficient Ag <sub>3</sub> PO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Z-Scheme Photocatalyst for Its Enhanced Photocatalytic Performance in Degradation of Rhodamine B and Phenol. <i>Molecules</i> , 2021, 26, 2062.	1.7	22
1977	Facile synthesis of ZnFe <sub>2</sub> O <sub>4</sub> /SnO <sub>2</sub> composites for efficient photocatalytic degradation of methylene blue. <i>Materials Chemistry and Physics</i> , 2021, 262, 124273.	2.0	18
1978	Nanoarray Structures for Artificial Photosynthesis. <i>Small</i> , 2021, 17, e2006530.	5.2	32
1979	Promoting reactive oxygen species generation: a key strategy in nanosensitizer-mediated radiotherapy. <i>Nanomedicine</i> , 2021, 16, 759-778.	1.7	26
1980	An excellent triethylamine (TEA) sensor based on unique hierarchical MoS <sub>2</sub> /ZnO composites composed of porous microspheres and nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129616.	4.0	68

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1982	Recent Development in Defects Engineered Photocatalysts: An Overview of the Experimental and Theoretical Strategies. <i>Energy and Environmental Materials</i> , 2022, 5, 68-114.	7.3	81
1984	Free-standing ultra-thin Janus indium oxysulfide for ultrasensitive visible-light-driven optoelectronic chemical sensing. <i>Nano Today</i> , 2021, 37, 101096.	6.2	38
1985	Electronic structure of aqueous two-dimensional photocatalyst. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	8
1986	Review of various strategies to boost the photocatalytic activity of the cuprous oxide-based photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105138.	3.3	43
1987	MOF-derived synthesis of MnS/In <sub>2</sub> S <sub>3</sub> p-n heterojunctions with hierarchical structures for efficient photocatalytic CO <sub>2</sub> reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 547-556.	5.0	48
1988	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. <i>Chemical Record</i> , 2021, 21, 1811-1844.	2.9	29
1989	Preparation of a novel TiO <sub>2</sub> -graphene 3D framework material for efficient adsorption-photocatalytic removal of micro-organic contaminants from water. <i>Materials Chemistry and Physics</i> , 2021, 263, 124339.	2.0	6
1990	Self-Driven Salt-Thermal Reduction Approach for the Synthesis of Cu <sub>2</sub> O and AgCl@Cu <sub>2</sub> O Hybrids with Superior Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5651-5660.	3.2	7
1991	Recent Advances in TiO <sub>2</sub> -Based Heterojunctions for Photocatalytic CO <sub>2</sub> Reduction With Water Oxidation: A Review. <i>Frontiers in Chemistry</i> , 2021, 9, 637501.	1.8	26
1992	Prospects of Z-Scheme Photocatalytic Systems Based on Metal Halide Perovskites. <i>ACS Nano</i> , 2021, 15, 7860-7878.	7.3	40
1993	Decomposition of dye pigment via photocatalysis process using CuO-TiO <sub>2</sub> nanocomposite. <i>Materials Today: Proceedings</i> , 2021, 47, 3441-3444.	0.9	6
1994	Hierarchically Porous WO <sub>3</sub> /CdWO <sub>4</sub> Fiber-in-Tube Nanostructures Featuring Readily Accessible Active Sites and Enhanced Photocatalytic Effectiveness for Antibiotic Degradation in Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21138-21148.	4.0	64
1995	Bilayer MoTe <sub>2</sub> /XS <sub>2</sub> (X=Hf,Sn,Zr) heterostructures with efficient carrier separation and light absorption for photocatalytic water splitting into hydrogen. <i>Applied Surface Science</i> , 2021, 544, 148842.	3.1	24
1996	Holey defected TiO <sub>2</sub> nanosheets with oxygen vacancies for efficient photocatalytic hydrogen production from water splitting. <i>Surfaces and Interfaces</i> , 2021, 23, 100979.	1.5	12
1997	Enhanced photocatalytic H <sub>2</sub> production over g-C <sub>3</sub> N <sub>4</sub> /NiS hybrid photocatalyst. <i>Materials Letters</i> , 2021, 290, 129476.	1.3	13
1998	Photodegradation of Naproxen Using Ag/AgCl@PANI Composite under Solar Light: Transformation Product and Reaction Kinetics. <i>Kinetics and Catalysis</i> , 2021, 62, 367-374.	0.3	3
1999	Improving the Performance of ZnS Photocatalyst in Degrading Organic Pollutants by Constructing Composites with Ag <sub>2</sub> O. <i>Nanomaterials</i> , 2021, 11, 1451.	1.9	13

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2001	Sub-level engineering strategy of nitrogen-induced Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> : a versatile photocatalyst for oxidation and reduction. <i>Environmental Science and Pollution Research</i> , 2021, 28, 50747-50766.	2.7	11
2002	Cadmium sulfide/titanate hybrid green light photocatalysis for selective aerobic oxidative homocoupling of amines. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 387-395.	5.0	21
2003	Molecule/Semiconductor Hybrid Materials for Visible-Light CO <sub>2</sub> Reduction: Design Principles and Interfacial Engineering. <i>Accounts of Materials Research</i> , 2021, 2, 458-470.	5.9	51
2004	Photochemical Construction of Ni/CdS Double-Walled Magnetic Hollow Microspheres with Simultaneously Enhanced Visible-Light Photocatalytic Activity and Recyclability. <i>ChemPhotoChem</i> , 2021, 5, 735-747.	1.5	6
2005	Structure and Band Alignment of InP Photocatalysts Passivated by TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11620-11627.	1.5	7
2006	Synthesis of lateral heterostructure of 2D materials for optoelectronic devices: challenges and opportunities. <i>Emergent Materials</i> , 2021, 4, 923-949.	3.2	14
2007	Effect of Co Doping on Electrocatalytic Performance of Co-NiS <sub>2</sub> /CoS <sub>2</sub> Heterostructures. <i>Nanomaterials</i> , 2021, 11, 1245.	1.9	3
2008	ZIF-9 derived cobalt phosphide and In <sub>2</sub> O <sub>3</sub> as co-catalysts for efficient hydrogen production. <i>Molecular Catalysis</i> , 2021, 507, 111551.	1.0	5
2009	First-Principles Evaluation of Volatile Organic Compounds Degradation in Z-Scheme Photocatalytic Systems: MXene and Graphitic-CN Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23843-23852.	4.0	47
2010	Controllable One-Step Synthesis of Mixed-Phase TiO <sub>2</sub> Nanocrystals with Equivalent Anatase/Rutile Ratio for Enhanced Photocatalytic Performance. <i>Nanomaterials</i> , 2021, 11, 1347.	1.9	19
2011	Facile hydrothermal preparation of a ZnFe <sub>2</sub> O <sub>4</sub> /TiO <sub>2</sub> heterojunction for NO <sub>x</sub> removal. <i>Molecular Catalysis</i> , 2021, 507, 111570.	1.0	5
2012	Enhancement of the visible-light absorption and charge mobility in a zinc porphyrin polymer/g-C <sub>3</sub> N <sub>4</sub> heterojunction for promoting the oxidative coupling of amines. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119863.	10.8	49
2013	Band gap engineering of metal-organic frameworks for solar fuel productions. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213785.	9.5	57
2014	Graphene coupled TiO <sub>2</sub> photocatalysts for environmental applications: A review. <i>Chemosphere</i> , 2021, 271, 129506.	4.2	132
2015	Ternary TiO <sub>2</sub> /WO <sub>3</sub> /CQDs nanocomposites for enhanced photocatalytic mineralization of aqueous cephalixin: Degradation mechanism and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2021, 412, 128679.	6.6	40
2016	Ligand-free Au nanoclusters/g-C <sub>3</sub> N <sub>4</sub> ultra-thin nanosheets composite photocatalysts for efficient visible-light-driven photocatalytic H <sub>2</sub> generation. <i>Journal of Materials Science</i> , 2021, 56, 13736-13751.	1.7	4
2017	Physicochemical characterization and catalytic performance of Fe doped CuS thin films deposited by the chemical spray pyrolysis technique. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	14



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2020	Integrating Ag <sub>2</sub> WO <sub>4</sub> on VS <sub>4</sub> nanoplates with synergy of plasmonic photocatalysis and boosted visible-light harvesting and its antibacterial applications. Journal of Alloys and Compounds, 2021, 865, 158810.	2.8	29
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2023	Crystal face-selective Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /BiOI heterojunction constructed for enhanced visible light-driven photocatalytic activity. Applied Surface Science, 2021, 552, 149507.	3.1	22
2024	Highlights and challenges in the selective reduction of carbon dioxide to methanol. Nature Reviews Chemistry, 2021, 5, 564-579.	13.8	253
2025	Photocatalytic reduction of Cr(VI) using a wurtzite/natural sphalerite heterostructure: Synergistic effects of exposed active facets, vacancies and a heterophase junction. Applied Surface Science, 2021, 550, 149267.	3.1	6
2026	Strategies for improving perovskite photocatalysts reactivity for organic pollutants degradation: A review on recent progress. Chemical Engineering Journal, 2021, 414, 128783.	6.6	135
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2031	Recent Progress on Metal-Enhanced Photocatalysis: A Review on the Mechanism. Research, 2021, 2021, 9794329.	2.8	101
2032	Study of Sheetlike BiOI/Rodlike Bi <sub>5</sub> O <sub>7</sub> I Composite Photocatalyst by In Situ Crystallization of BiOI with pH-Dependence for Hg <sup>0</sup> Removal. Energy & Fuels, 2021, 35, 11415-11426.	2.5	17
2033	Facile decoration of CdS nanoparticles on TiO <sub>2</sub> : robust photocatalytic activity under LED illumination. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.3	2
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2038	A novel CaIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> NTAs heterojunction photoanode for highly efficient photocathodic protection performance of 316 SS under visible light. <i>Nanotechnology</i> , 2021, 32, .	1.3	16
2039	Spontaneously formed gradient chemical compositional structures of niobium doped titanium dioxide nanoparticles enhance ultraviolet- and visible-light photocatalytic performance. <i>Scientific Reports</i> , 2021, 11, 15236.	1.6	9
2040	Ultrafast Microwave Synthesis of WO <sub>3</sub> Nanostructured Films for Solar Photocatalysis. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100196.	1.2	12
2041	TiO <sub>2</sub> /BiOI p-n junction-decorated carbon fibers as weavable photocatalyst with UV-vis photoresponsive for efficiently degrading various pollutants. <i>Chemical Engineering Journal</i> , 2021, 415, 129019.	6.6	130
2042	Construction of 2D polyoxoniobate/RGO heterojunction photocatalysts for the enhanced photodegradation of tetracycline. <i>Applied Surface Science</i> , 2021, 553, 149505.	3.1	24
2043	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. <i>Nano-Micro Letters</i> , 2021, 13, 156.	14.4	71
2044	3D hollow Bi <sub>2</sub> O <sub>3</sub> @CoAl-LDHs direct Z-scheme heterostructure for visible-light-driven photocatalytic ammonia synthesis. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 798-809.	5.0	30
2045	Aluminium-doped TiO <sub>2</sub> nanotubes with enhanced light-harvesting properties. <i>Ceramics International</i> , 2021, 47, 18358-18366.	2.3	6
2046	Rational design of kaolinite-based photocatalytic materials for environment decontamination. <i>Applied Clay Science</i> , 2021, 208, 106098.	2.6	30
2047	Efficient photocatalytic oxygen activation by oxygen-vacancy-rich CeO <sub>2</sub> -based heterojunctions: Synergistic effect of photoexcited electrons transfer and oxygen chemisorption. <i>Applied Catalysis B: Environmental</i> , 2021, 289, 120020.	10.8	102
2048	Synergistic Polarization Engineering on Bulk and Surface for Boosting CO <sub>2</sub> Photoreduction. <i>Angewandte Chemie</i> , 2021, 133, 18451-18456.	1.6	19
2049	Noble-Metal-Free Multicomponent Nanointegration for Sustainable Energy Conversion. <i>Chemical Reviews</i> , 2021, 121, 10271-10366.	23.0	156
2050	Photocatalytic Applications in Wastewater and Air Treatment: A Patent Review (2010-2020). <i>Catalysts</i> , 2021, 11, 834.	1.6	18
2051	Core-shell ZIF-8@MIL-68(In) derived ZnO nanoparticles-embedded In <sub>2</sub> O <sub>3</sub> hollow tubular with oxygen vacancy for photocatalytic degradation of antibiotic pollutant. <i>Journal of Hazardous Materials</i> , 2021, 414, 125395.	6.5	85
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2053	Construction of a Bioinspired Hierarchical BiVO <sub>4</sub> /BiOCl Heterojunction and Its Enhanced Photocatalytic Activity for Phenol Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32906-32915.	4.0	73
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2056	Highly efficient Ti <sup>3+</sup> self-doped TiO <sub>2</sub> co-modified with carbon dots and palladium nanocomposites for disinfection of bacterial and fungi. <i>Journal of Hazardous Materials</i> , 2021, 413, 125318.	6.5	31
2057	Modulation strategies in titania photocatalyst for energy recovery and environmental remediation. <i>Catalysis Today</i> , 2022, 384-386, 45-69.	2.2	9
2058	Photoelectrochemical Biosensor for MicroRNA-21 Based on High Photocurrent of TiO <sub>2</sub> /Two-Dimensional Coordination Polymer CuCl <sub>2</sub> (MBA) Photoelectrode. <i>Analytical Chemistry</i> , 2021, 93, 11010-11018.	3.2	24
2059	Facile synthesis of defected TiO <sub>2</sub> - (B) nanosheet/graphene oxide hybrids with high photocatalytic H <sub>2</sub> activity. <i>Journal of Materials Science and Technology</i> , 2021, 80, 171-178.	5.6	15
2060	Hydrogel photocatalysts for efficient energy conversion and environmental treatment. <i>Frontiers in Energy</i> , 2021, 15, 577-595.	1.2	14
2061	Abiotic oxidation of arsenite in natural and engineered systems: Mechanisms and related controversies over the last two decades (1999â€“2020). <i>Journal of Hazardous Materials</i> , 2021, 414, 125488.	6.5	22
2062	Unique hollow heterostructured CdS/Cd <sub>0.5</sub> Zn <sub>0.5</sub> S-Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> : Highly-improved visible-light-driven H <sub>2</sub> generation via synergy of Cd <sub>0.5</sub> Zn <sub>0.5</sub> S protective shell and defect-rich Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> cocatalyst. <i>Nano Research</i> , 2022, 15, 985-995.	5.8	15
2063	Facile preparation of carbon quantum dots/TiO <sub>2</sub> composites at room temperature with improved visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159389.	2.8	32
2064	Photocatalytic degradation of antibiotics using a novel Ag/Ag <sub>2</sub> S/Bi <sub>2</sub> MoO <sub>6</sub> plasmonic p-n heterojunction photocatalyst: Mineralization activity, degradation pathways and boosted charge separation mechanism. <i>Chemical Engineering Journal</i> , 2021, 415, 128991.	6.6	253
2065	Synergistic Polarization Engineering on Bulk and Surface for Boosting CO <sub>2</sub> Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18303-18308.	7.2	197
2066	A review on CaTiO <sub>3</sub> photocatalyst: Activity enhancement methods and photocatalytic applications. <i>Powder Technology</i> , 2021, 388, 274-304.	2.1	52
2067	Disclosing the hidden presence of Ti <sup>3+</sup> ions in different TiO <sub>2</sub> crystal structures synthesized at low temperature and photocatalytic evaluation by methylene blue photobleaching. <i>Journal of Materials Research</i> , 2021, 36, 3353-3365.	1.2	6
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2071	The PtSe <sub>2</sub> /GaN van der Waals heterostructure photocatalyst with type II alignment: A first-principles study. <i>Applied Catalysis A: General</i> , 2021, 624, 118332.	2.2	34
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2104	Recent developments of perylene diimide (PDI) supramolecular photocatalysts: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 48, 100436.	5.6	66
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2116	Molten salt-assisted shape modification of CaFe <sub>2</sub> O <sub>4</sub> nanorods for highly efficient photocatalytic degradation of methylene blue. <i>Optical Materials</i> , 2021, 119, 111295.	1.7	16
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2121	Structural and morphological optimization of Ni doped ZnO decorated silicon nanowires for photocatalytic degradation of methylene blue. <i>Inorganic Chemistry Communication</i> , 2021, 131, 108763.	1.8	29
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2124	Recent advances on Bi <sub>2</sub> WO <sub>6</sub> -based photocatalysts for environmental and energy applications. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1413-1438.	6.9	208
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2126	In-situ construction of sequential heterostructured CoS/CdS/CuS for building “electron-welcome zone” to enhance solar-to-hydrogen conversion. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120763.	10.8	38

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2128	ZnIn <sub>2</sub> S <sub>4</sub> -Based Photocatalysts for Energy and Environmental Applications. <i>Small Methods</i> , 2021, 5, e2100887.	4.6	153
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2140	ZnS-based quantum dots as photocatalysts for water purification. <i>Journal of Water Process Engineering</i> , 2021, 43, 102217.	2.6	41
2141	Bi <sub>2</sub> WO <sub>6</sub> -TiO <sub>2</sub> /starch composite films with Ag nanoparticle irradiated by <sup>137</sup> γ-ray used for the visible light photocatalytic degradation of ethylene. <i>Chemical Engineering Journal</i> , 2021, 421, 129986.	6.6	43
2142	Photocatalytically reductive defluorination of perfluorooctanoic acid (PFOA) using Pt/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> nanoplates: Experimental and DFT assessment. <i>Journal of Hazardous Materials</i> , 2021, 419, 126452.	6.5	32
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2144	Synergistic photocatalytic activity of SnO <sub>2</sub> /PANI nanocomposite for the removal of direct blue 15 under UV light irradiation. <i>Ceramics International</i> , 2021, 47, 29225-29231.	2.3	16

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2148	A novel mixed matrix polysulfone membrane for enhanced ultrafiltration and photocatalytic self-cleaning performance. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 178-189.	5.0	27
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2155	Photocatalytic degradation of hazardous organic pollutants in water by Fe-MOFs and their composites: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105967.	3.3	47
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2158	Enhanced photocatalytic performance of heterogeneous hydroxalcite by spontaneously polarized ferroelectric. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 473-479.	5.0	4
2159	Facile fabrication of Fe-BDC/Fe-2MI heterojunction with boosted photocatalytic activity for Cr(VI) reduction. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105961.	3.3	15
2160	Interface engineering of bi-layer semiconductor SrCoSnO3- $\delta$ -CeO2- $\delta$ heterojunction electrolyte for boosting the electrochemical performance of low-temperature ceramic fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33969-33977.	3.8	28
2161	Black phosphorus-TiF3 photocatalyst for hydrogen production with an excellent capacity. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160775.	2.8	11
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2164	Enhanced photocatalytic degradation of Diclofenac with AgI/CeO <sub>2</sub> : A comparison with Mn, Cu and Ag-doped CeO <sub>2</sub> . <i>Materials Research Bulletin</i> , 2021, 143, 111463.	2.7	28
2165	Amide-linked covalent organic frameworks as efficient heterogeneous photocatalysts in water. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2010-2019.	6.9	45
2166	Fabrication of one-dimensional Bi <sub>2</sub> WO <sub>6</sub> /CuBi <sub>2</sub> O <sub>4</sub> heterojunction nanofiber and its photocatalytic degradation property. <i>Optical Materials</i> , 2021, 121, 111508.	1.7	25
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2170	Photocatalytic degradation of rhodamine B by Bi <sub>2</sub> O <sub>3</sub> @LDHs Sâ€“scheme heterojunction: Performance, kinetics and mechanism. <i>Applied Surface Science</i> , 2021, 567, 150760.	3.1	36
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2175	State-of-the-art progress in the selective photo-oxidation of alcohols. <i>Journal of Energy Chemistry</i> , 2021, 62, 338-350.	7.1	50
2176	Cooperative photocatalysis of dye-TiO <sub>2</sub> nanotubes with TEMPO+BF <sub>4</sub> <sup>-</sup> for selective aerobic oxidation of amines driven by green light. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120368.	10.8	21
2177	Recent advances on heterojunction-based photocatalysts for the degradation of persistent organic pollutants. <i>Chemical Engineering Journal</i> , 2021, 426, 130617.	6.6	53
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2179	Carbon quantum dots modified BiOCl for highly efficient degradation of contaminants benefited from effective generation of $\cdot\text{O}_2^-$ . <i>Materials Science in Semiconductor Processing</i> , 2021, 136, 106165.	1.9	26
2180	Controlled thermal treatment of NH <sub>2</sub> -MIL-125(Ti) for drastically enhanced photocatalytic reduction of Cr(VI). <i>Separation and Purification Technology</i> , 2021, 277, 119643.	3.9	29

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2182	Electrochemical and optical biosensors based on multifunctional MXene nanoplateforms: Progress and prospects. <i>Talanta</i> , 2021, 235, 122726.	2.9	46
2183	Constructing CdSe QDs modified porous g-C <sub>3</sub> N <sub>4</sub> heterostructures for visible light photocatalytic hydrogen production. <i>Journal of Materials Science and Technology</i> , 2021, 95, 167-171.	5.6	26
2184	Bi <sub>2</sub> WO <sub>6</sub> nanoparticles-decorated ZnO nanosheets and their enhanced gas sensing properties. <i>Vacuum</i> , 2021, 194, 110627.	1.6	7
2185	Synthesis of TiO <sub>2</sub> @ZnO heterojunction for dye photodegradation and wastewater treatment. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161169.	2.8	94
2186	A review of photocatalytic characterization, and environmental cleaning, of metal oxide nanostructured materials. <i>Sustainable Materials and Technologies</i> , 2021, 30, e00343.	1.7	30
2188	Mechanochemical synthesis of ternary heterojunctions TiO <sub>2</sub> (A)/TiO <sub>2</sub> (R)/ZnO and TiO <sub>2</sub> (A)/TiO <sub>2</sub> (R)/SnO <sub>2</sub> for effective charge separation in semiconductor photocatalysis: A comparative study. <i>Environmental Research</i> , 2022, 203, 111841.	3.7	32
2189	Photocatalytic fuel cell – A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131074.	6.6	57
2190	Photophysical, optical, and photocatalytic hydrogen production properties of layered-type BaNb <sub>2</sub> -Ta P <sub>2</sub> O <sub>11</sub> (xÅ=Å0, 0.5, 1.0, 1.5, and 2.0) compounds. <i>Journal of Materials Science and Technology</i> , 2022, 98, 26-32.	5.6	4
2191	Metal-free 2D/2D C <sub>3</sub> N <sub>5</sub> /GO nanosheets with customized energy-level structure for radioactive nuclear wastewater treatment. <i>Journal of Hazardous Materials</i> , 2022, 422, 126912.	6.5	49
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2469	Core-shell-like BiOBr@BiOBr homojunction for enhanced photocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128829.	2.3	9
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2472	Constructing MnO <sub>2</sub> alpha/amorphous heterophase junction by mechanochemically induced phase transformation for formaldehyde oxidation. <i>Applied Surface Science</i> , 2022, 589, 152855.	3.1	11
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2484	Metallic Copper-Containing Composite Photocatalysts: Fundamental, Materials Design, and Photoredox Applications. <i>Small Methods</i> , 2022, 6, e2101001.	4.6	18
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2537	Gas-phase photoelectrocatalytic oxidation of volatile organic compounds using defective WO <sub>3</sub> /TiO <sub>2</sub> nanotubes mesh. <i>Environmental Science: Nano</i> , 2022, 9, 2172-2181.	2.2	4
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2541	Enhanced photo-carrier transportation at semiconductor/electrolyte interface of TiO <sub>2</sub> photoanode by oxygen vacancy engineering. <i>Applied Surface Science</i> , 2022, 597, 153744.	3.1	15
2542	Insight into the relationship of redox ability and separation efficiency via the case of $\delta$ -Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>5</sub> NO <sub>3</sub> O <sub>7</sub> . <i>Inorganic Chemistry Frontiers</i> , 0, , .	3.0	1
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2545	Recent development on titania-based nanomaterial for photocatalytic CO <sub>2</sub> reduction: A review. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165533.	2.8	29
2546	Cerium-doped MoS <sub>2</sub> layered nanostructures for enhanced photocatalytic activity under visible light illumination. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	0
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2550	Reinforcement of Visible-Light Harvesting and Charge-Transfer Dynamics of BiVO <sub>4</sub> Photoanode via Formation of p-n Heterojunction with CuO for Efficient Photoelectrocatalytic Water Splitting. <i>ACS Applied Energy Materials</i> , 2022, 5, 6618-6632.	2.5	21
2551	Photocatalytic destruction and adsorptive processes of methylene blue by potassium titanate. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
2552	Loading density modulation of Zn <sub>0.5</sub> Cd <sub>0.5</sub> S nanoparticles on ZnS(en) <sub>0.5</sub> nanosheets with effective hole transfer channels towards highly efficient hydrogen evolution. <i>Applied Surface Science</i> , 2022, 598, 153757.	3.1	4
2553	Type-II band alignment in CNT-modified SrTiO <sub>3</sub> -Fe <sub>2</sub> TiO <sub>5</sub> heterostructure nanocomposite for photocatalytic degradation of organic dyes. <i>Applied Surface Science</i> , 2022, 598, 153816.	3.1	28
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2555	Charge Carrier Management in Semiconductors: Modeling Charge Transport and Recombination. <i>Springer Handbooks</i> , 2022, , 365-398.	0.3	2
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2564	Facile Synthesis of ZnO-CeO <sub>2</sub> Heterojunction by Mixture Design and Its Application in Triclosan Degradation: Effect of Urea. <i>Nanomaterials</i> , 2022, 12, 1969.	1.9	0
2565	Thin In-Plane In <sub>2</sub> O <sub>3</sub> /ZnIn <sub>2</sub> S <sub>4</sub> Heterostructure Formed by Topological Atom Extraction: Optimal Distance and Charge Transfer for Effective CO <sub>2</sub> Photoreduction. <i>Small</i> , 2022, 18, .	5.2	23
2566	One-pot hydrothermal fabrication of 2D/2D BiOIO <sub>3</sub> /BiOBr Z-scheme heterostructure with enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 664-679.	5.0	19
2567	Zn(II) porphyrin sensitized (TiO <sub>2</sub> @Cd-MOF) nanocomposite aerogel as novel photocatalyst for the effective degradation of methyl orange (MO) dye. <i>Optical Materials</i> , 2022, 132, 112558.	1.7	25

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2570	New Cu(II)-based three dimensional supramolecular coordination polymer as photocatalyst for the degradation of methylene blue. <i>Journal of Molecular Structure</i> , 2022, 1266, 133533.	1.8	5
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2574	Equimolar ZnO-Cds Nanocomposite for Enhanced Photocatalytic Performance. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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2578	Facile Synthesis of Vs <sub>2</sub> /Cds/Nayf <sub>4</sub> :Yb, Er Ternary Heterojunctions for The Visible-Near-Infrared-Light-Driven Photocatalysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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2704	Ag <sub>3</sub> PO <sub>4</sub> and Ag <sub>3</sub> PO <sub>4</sub> -based visible light active photocatalysts: Recent progress, synthesis, and photocatalytic applications. <i>Catalysis Communications</i> , 2022, 172, 106556.	1.6	18
2705	Graphite-Like C <sub>3</sub> N <sub>4</sub> Nanocatalysts Containing Ru, Ni, Co, Fe, Au, Ag, Cu or Zn for Photocatalytic Degradation of Organic Dyes. <i>Russian Journal of Inorganic Chemistry</i> , 0, , .	0.3	0
2706	Rationally designed 1D CdS/TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> multi-components nanocomposites for enhanced visible light photocatalytic hydrogen production. <i>Chemical Physics Letters</i> , 2022, 809, 140150.	1.2	6
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2716	Emerging trends of pseudobrookite Fe <sub>2</sub> TiO <sub>5</sub> photocatalyst: A versatile material for solar water splitting systems. <i>Journal of Alloys and Compounds</i> , 2023, 933, 167710.	2.8	9
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2718	The construction of high efficient visible-light-driven 3D porous g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> photocatalyst: A new photo-induced bacterial inactivation material enhanced by cascade photo-Fenton reaction. <i>Chemosphere</i> , 2023, 312, 137253.	4.2	4
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2723	Superb photocatalytic activity of 2D/2D Cl doped g-C <sub>3</sub> N <sub>4</sub> nanodisc/Bi <sub>2</sub> WO <sub>6</sub> nanosheet heterojunction: Exploration of photoinduced carrier migration in S-scheme heterojunction. <i>Journal of Alloys and Compounds</i> , 2023, 933, 167789.	2.8	20
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#	ARTICLE	IF	CITATIONS
2821	Enhancement of Visible-Light-Driven Hydrogen Evolution Activity of 2D $\pi$ -Conjugated Bipyridine-Based Covalent Organic Frameworks via Post-Protonation. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	32
2822	Boosting solar-driven N <sub>2</sub> to NH <sub>3</sub> conversion using defect-engineered TiO <sub>2</sub> /CuO heterojunction photocatalyst. <i>Applied Surface Science</i> , 2023, 620, 156812.	3.1	5
2823	Heterostructure charge transfer dynamics on self-assembled ZnO on electronically different single-walled carbon nanotubes. <i>Chemosphere</i> , 2023, 323, 138239.	4.2	5
2824	Cu(II) harmonize g-C <sub>3</sub> N <sub>4</sub> and black phosphorous together under the interaction of surface charges to form unconventional type-II photocatalyst BPs/Cu/CNs with attractive performance. <i>Chemical Engineering Journal</i> , 2023, 463, 142500.	6.6	4
2825	Synthesis and photoelectrochemical catalytic properties of polyoxometalate supported on zeolitic imidazolate Framework, ZIF-90@PMo <sub>12</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 291, 116385.	1.7	4
2826	Incorporating CdS and anchoring Pt single atoms into porphyrinic metal-organic frameworks for superior visible-light and sunlight-driven H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2023, 464, 142530.	6.6	12
2827	Constructing outstanding 1D/2D Co <sub>3</sub> O <sub>4</sub> /NiMnO <sub>3</sub> heterostructure to promote the PEC efficiency for water pollution remediation. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169411.	2.8	4
2828	Development and application of redox active GO supported CeO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> nanocomposite for photocatalytic degradation of toxic dyes and electrochemical detection of sulfamazole. <i>Surfaces and Interfaces</i> , 2023, 38, 102774.	1.5	3
2829	Unique porous ZnS-CdS-CoS <sub>x</sub> Reuleaux triangle nanosheets: Highly promoted visible-light photocatalytic H <sub>2</sub> evolution via synergistic effect of Z-scheme heterojunction and vacancy defects. <i>Fuel</i> , 2023, 342, 127847.	3.4	5
2830	A review on semiconductor photocathode in bioelectrochemical systems: Mechanism, limitation, and environmental application. <i>Materials Today Sustainability</i> , 2023, 22, 100349.	1.9	5
2831	Strategic growth engineering of Ag self-doped Ag <sub>2</sub> CO <sub>3</sub> on MIL-53 MOF: A novel p-n heterostructure facilitates serendipitous charge migration and remarkable multimodal photocatalytic activity. <i>Materials Today Communications</i> , 2023, 35, 105842.	0.9	0
2832	A BP3-ALP3 heterobilayer for the bifunctional photocatalysis of CO <sub>2</sub> reduction. <i>Applied Surface Science</i> , 2023, 621, 156890.	3.1	5
2833	Two-dimensional PtI <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> and PtI <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> heterostructures with high solar-to-hydrogen efficiency. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 666, 131286.	2.3	1
2834	NiO/Bi <sub>2</sub> MoxW <sub>1-x</sub> O <sub>6</sub> (0 ≤ x ≤ 1) nanofibers as a bifunctional platform boosting photocatalytic tetracycline conversion and electrocatalytic oxygen reduction. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169607.	2.8	4
2835	Application of a new lignin/cellulose carbon xerogel/ZnO/Bi <sub>2</sub> O <sub>3</sub> /Bi <sup>0</sup> composite photocatalyst for the degradation of bisphenol-A under sunlight. <i>Chemical Physics Impact</i> , 2023, 6, 100182.	1.7	4
2836	Ta <sub>3</sub> N <sub>5</sub> @LaTaON <sub>2</sub> heterojunction with matched interfaces to accelerate charge separation for efficient photocatalytic water oxidation. <i>Journal of Materials Science and Technology</i> , 2023, 154, 241-250.	5.6	5
2837	Multi-functional silver nanoprism-titanium dioxide hybrid nanoarrays for trace-level SERS sensing and photocatalytic removal of hazardous organic pollutants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 297, 122701.	2.0	5
2838	Production of renewable fuel from CO <sub>2</sub> by Co <sub>3</sub> O <sub>4</sub> /Cr doped MgAl-LDH p-n heterojunction catalyst. <i>Fuel Processing Technology</i> , 2023, 246, 107762.	3.7	2

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2839	Pt-Ag/Ag <sub>3</sub> PO <sub>4</sub> -WO <sub>3</sub> nanocomposites for photocatalytic H <sub>2</sub> production from bioethanol. <i>Fuel</i> , 2023, 344, 127998.	3.4	13
2840	Rational design of photo/electrocatalytic systems for the transformation of plastic wastes. <i>Applied Catalysis B: Environmental</i> , 2023, 332, 122744.	10.8	10
2841	NIR-II driven photocatalytic hydrogen peroxide-supply on metallic copper-nickel selenide (Cu-Ni <sub>0.85</sub> Se) nanoparticle for synergistic therapy. <i>Journal of Colloid and Interface Science</i> , 2023, 641, 113-125.	5.0	1
2842	Structure-directing ability of the kraft-lignin/cellulose carbon xerogel for the development of C-Nb <sub>2</sub> O <sub>5</sub> sunlight-active photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 441, 114697.	2.0	2
2843	TiO <sub>2</sub> NGQD composite photocatalysts with switchable photocurrent response. <i>Nanoscale</i> , 2023, 15, 2788-2797.	2.8	4
2844	A review on superior advanced oxidation and photocatalytic degradation techniques for perfluorooctanoic acid (PFOA) elimination from wastewater. <i>Environmental Research</i> , 2023, 221, 115326.	3.7	29
2845	Construction of strongly coupled 2D SnS <sub>2</sub> /CdS S-scheme heterostructures for photocatalytic hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2023, 7, 1311-1321.	2.5	6
2846	Quantum dots: Another choice to sensitize organic transformations. <i>Chemical Physics Reviews</i> , 2023, 4, 011304.	2.6	4
2847	In-situ CdS nanowires on g-C <sub>3</sub> N <sub>4</sub> nanosheet heterojunction construction in 3D-Optofluidic microreactor for the photocatalytic green hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 15406-15420.	3.8	2
2848	Synthesis of 0D/2D CdSe/HSr <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> n heterojunction with excellent visible-light-driven photocatalytic performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 290, 116304.	1.7	0
2849	Recent update on photocatalytic degradation of pollutants in waste water using TiO <sub>2</sub> -based heterostructured materials. <i>Results in Engineering</i> , 2023, 17, 100920.	2.2	40
2850	An Alternative Approach to Study Photo-catalytic Behavior of TiO <sub>2</sub> Using Synchrotron-Based Advanced Spectroscopic Techniques. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 10391-10401.	1.2	3
2851	Sonocatalytic degradation of tetracycline by BiOBr/FeWO <sub>4</sub> nanomaterials and enhancement of sonocatalytic effect. <i>Journal of Cleaner Production</i> , 2023, 394, 136275.	4.6	24
2852	The enhanced photocatalytic performance of Co <sub>3</sub> O <sub>4</sub> nanoparticles/In <sub>2</sub> O <sub>3</sub> nanotubes pn junction via dual MOFs template auxiliary. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	0
2853	A review focused on the superhydrophobic fabrics with functional properties. <i>Journal of Applied Polymer Science</i> , 2023, 140, .	1.3	4
2854	Low-temperature synthesis one-dimensional Ag <sub>2</sub> CO <sub>3</sub> /SnFe <sub>2</sub> O <sub>4</sub> scheme with excellent visible-light photoactivity. <i>Journal of the American Ceramic Society</i> , 2023, 106, 3594-3604.	1.9	13
2855	Enhancement of Visible-Light-Driven Hydrogen Evolution Activity of 2D Conjugated Bipyridine-Based Covalent Organic Frameworks via Post-Protonation. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	7
2856	Hydrothermal-assisted synthesis and characterization of MWCNT/copper oxide nanocomposite for the photodegradation of methyl orange under direct sunlight. <i>Diamond and Related Materials</i> , 2023, 134, 109778.	1.8	4

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2858	Visible-Light Driven Systems: Effect of the Parameters Affecting Hydrogen Production through Photoreforming of Organics in Presence of Cu <sub>2</sub> O/TiO <sub>2</sub> Nanocomposite Photocatalyst. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 2337.	1.3	0
2859	Indirect Z-scheme hydrogen production photocatalyst based on two-dimensional GeC/MoSi <sub>2</sub> N <sub>4</sub> van der Waals heterostructures. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 18301-18314.	3.8	9
2860	A Z-scheme photocatalysis for phenol eradication from water using peroxymonosulfate activation Ag/AgBr/SCN nanocomposite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 144, 104722.	2.7	4
2861	Recent Advances in ZnO-Based Nanostructures for the Photocatalytic Degradation of Hazardous, Non-Biodegradable Medicines. <i>Crystals</i> , 2023, 13, 329.	1.0	27
2862	Ceria-based photocatalysts in water-splitting for hydrogen production and carbon dioxide reduction. <i>Catalysis Reviews - Science and Engineering</i> , 0, , 1-78.	5.7	7
2863	Construction of a BaTiO <sub>3</sub> /tubular g-C <sub>3</sub> N <sub>4</sub> dual piezoelectric photocatalyst with enhanced carrier separation for efficient degradation of tetracycline. <i>Chemical Engineering Journal</i> , 2023, 461, 141947.	6.6	48
2864	Sulfur recycling into value-added materials: a review. <i>Environmental Chemistry Letters</i> , 2023, 21, 1673-1699.	8.3	12
2865	Synergistic effect of cocatalyst and S-scheme heterojunction over 2D/2D g-C <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> heterostructure coupled Cu nanoparticles for selective photocatalytic CO <sub>2</sub> reduction to CO under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109545.	3.3	13
2866	Metal ions doped TiO <sub>2</sub> nanotubes: synthesis, characterization and performance of metals doping in photocatalytic activity. <i>Digest Journal of Nanomaterials and Biostructures</i> , 2023, 18, 243-252.	0.3	3
2867	A versatile Topology Optimization Strategy for Devising Low-Dimensional Architectures with Boosted Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	8
2868	Uniform Catalytic Nanocrystals: From Model Catalysts to Efficient Catalysts. <i>Accounts of Materials Research</i> , 2023, 4, 373-384.	5.9	7
2869	Construction of Z-scheme MnCo <sub>2</sub> O <sub>4</sub> /Sn <sub>3</sub> O <sub>4</sub> heterostructured photoanodes with enhanced photoelectrocatalytic degradation of reactive brilliant blue KN-R. <i>International Journal of Electrochemical Science</i> , 2023, 18, 100066.	0.5	2
2870	A review on transition metal oxides based photocatalysts for degradation of synthetic organic pollutants. <i>Journal of Environmental Sciences</i> , 2024, 139, 389-417.	3.2	27
2871	The versatile characteristics of Ar <sub>2</sub> S/GaInS van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	0
2872	Allochromic platinum/carbon nitride with photoactivated ohmic contact for efficient visible-light photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2023, 462, 142337.	6.6	3
2873	ZIF-67-derived nickel-cobalt phosphide nanocubes/N-doped carbon/nickel form composite for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 19995-20005.	3.8	11
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2877	Plasmonic photocatalysis: Mechanism, applications and perspectives. , 2023, 42, 100066.		8
2878	Application of bismuth sulfide based nanomaterials in cancer diagnosis and treatment. <i>Nano Today</i> , 2023, 49, 101799.	6.2	8
2879	Manganese-Based Metal-Organic Frameworks Photocatalysts for Visible Light-Driven Oxidative Coupling of Benzylamine under Atmospheric Oxygen: A Comparative Study. <i>Catalysts</i> , 2023, 13, 613.	1.6	0
2880	Flowerlike Sm <sup>2+</sup> /ZnIn <sub>2</sub> S <sub>4</sub> as a Susceptible Visible-Light Photocatalyst for Cr <sup>6+</sup> Reduction: Experimental Design, RSM, and ANN Modeling. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2023, 33, 1621-1637.	1.9	2
2881	BiVO <sub>4</sub> Microspheres Coated with Nanometer-Thick Porous TiO <sub>2</sub> Shells for Photocatalytic Water Treatment under Visible-Light Irradiation. <i>ACS Applied Nano Materials</i> , 2023, 6, 5545-5556.	2.4	5
2882	Smart Nanomaterials for Photo-Catalytic Applications. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2023, , 112-154.	0.2	1
2883	Effect of Sulfur Contents in NiZnS Composite Photocatalysts on Solar Water Splitting. <i>Journal of Korean Institute of Metals and Materials</i> , 2023, 61, 284-290.	0.4	0
2884	Photoelectrochemical Biosensors. , 2023, , 567-588.		0
2885	C <sub>3</sub> N <sub>4</sub> /GO@MF composites for synergistic Adsorption-Photocatalysis contributions to organic pollutant removal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 441, 114729.	2.0	1
2886	Effect of Ag Modification on the Structure and Photocatalytic Performance of TiO <sub>2</sub> /Muscovite Composites. <i>Molecules</i> , 2023, 28, 3187.	1.7	1
2887	The heterojunction construction of hybrid B-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets and ZIF67 by simple mechanical grinding for improved photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 25366-25378.	3.8	4
2888	Ternary-structured graphite carbon nitride quantum dots/TiO <sub>2</sub> nanotubes/3D SiO <sub>2</sub> photonic crystals for enhanced dye photodegradation. <i>New Journal of Chemistry</i> , 2023, 47, 9101-9112.	1.4	1
2889	Spatial Specific Janus S <sup>2-</sup> Scheme Photocatalyst with Enhanced H <sub>2</sub> O <sub>2</sub> Production Performance. <i>Small</i> , 2023, 19, .	5.2	17
2890	Enhanced catalysis for degradation of antibiotic by hydroxyl-functionalized S-doped BiOCl with high capacity of local spatial charge separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 669, 131448.	2.3	3
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2892	Photosynthesis of Hydrogen Peroxide Based on g-C <sub>3</sub> N <sub>4</sub> : The Road of a Cost-Effective Clean Fuel Production. <i>Small</i> , 2023, 19, .	5.2	16
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2895	Design and Fabrication of High Performance Visible Light Driven H <sub>2</sub> Production of N-doped TiO <sub>2</sub> Nanotubes Incorporated 2D MoS <sub>2</sub> Nanosheets Heterojunction Photocatalyst. <i>Journal of Cluster Science</i> , 0, , .	1.7	0
2896	Photocatalysis in energy application: What's next?. , 2023, , 100016.		0
2897	Superheterojunction covalent organic frameworks: Supramolecular synergetic charge transfer for highly efficient photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2023, 333, 122782.	10.8	12
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3022	Recent advances and developments in photoelectrochemical bioanalysis techniques. , 2023, , 307-320.		0
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3143	The confusion about S-scheme electron transfer: Critical understanding and new perspective. <i>Energy and Environmental Science</i> , 0, , .	15.6	1
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3205	Magnetic Adsorbents/Photocatalysts for Water Purification: Progress and Challenges. , 2024, , 78-100.		0
3207	Ru-Doped ZnS as an Enhanced Visible Light-Driven Photocatalyst. <i>Advances in Material Research and Technology</i> , 2024, , 131-169.	0.3	0
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3224	Advances in photocatalytic ceramic coatings. , 2024, , 171-211.		0
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