

# Yin Sheng

## List of Publications by Citations

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166  
papers

9,572  
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52  
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94  
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168  
ext. papers

11,625  
ext. citations

8.4  
avg, IF

6.58  
L-index

#	Paper	IF	Citations
166	Preparation of sphere-like g-C <sub>3</sub> N <sub>4</sub> /BiOI photocatalysts via a reactable ionic liquid for visible-light-driven photocatalytic degradation of pollutants. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5340	13	386
165	Ionic liquid-induced strategy for carbon quantum dots/BiOX (X = Br, Cl) hybrid nanosheets with superior visible light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 181, 260-269	21.8	318
164	Ultrathin 2D Photocatalysts: Electronic-Structure Tailoring, Hybridization, and Applications. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704548	24	298
163	Fe <sub>3</sub> O <sub>4</sub> -Decorated Co <sub>9</sub> S <sub>8</sub> Nanoparticles In Situ Grown on Reduced Graphene Oxide: A New and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4712-4721	15.6	297
162	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu <sup>2+</sup> . <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2563	13	288
161	Bismuth oxyhalide layered materials for energy and environmental applications. <i>Nano Energy</i> , <b>2017</b> , 41, 172-192	17.1	272
160	Surface Defect Engineering in 2D Nanomaterials for Photocatalysis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801983	15.6	260
159	Carbon Quantum Dots Modified BiOCl Ultrathin Nanosheets with Enhanced Molecular Oxygen Activation Ability for Broad Spectrum Photocatalytic Properties and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20111-23	9.5	252
158	The synergistic role of carbon quantum dots for the improved photocatalytic performance of Bi <sub>2</sub> MoO <sub>6</sub> . <i>Nanoscale</i> , <b>2015</b> , 7, 11433-43	7.7	251
157	Improved visible light photocatalytic activity of sphere-like BiOBr hollow and porous structures synthesized via a reactable ionic liquid. <i>Dalton Transactions</i> , <b>2011</b> , 40, 5249-58	4.3	221
156	Defect-Rich Bi O Cl Nanotubes Self-Accelerating Charge Separation for Boosting Photocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14847-14851	16.4	219
155	Commercially available molybdc compound-catalyzed ultra-deep desulfurization of fuels in ionic liquids. <i>Green Chemistry</i> , <b>2008</b> , 10, 641	10	193
154	Synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite and its enhancement of photocatalytic ability under visible-light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 478, 71-80	5.1	192
153	Defect-Tailoring Mediated Electron-Hole Separation in Single-Unit-Cell Bi O Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807576	24	188
152	Oxidative Desulfurization of Fuels Catalyzed by Peroxotungsten and Peroxomolybdenum Complexes in Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 2514-2516	4.1	183
151	Isolated single atom cobalt in BiOBr atomic layers to trigger efficient CO photoreduction. <i>Nature Communications</i> , <b>2019</b> , 10, 2840	17.4	177
150	Reactable ionic liquid-assisted rapid synthesis of BiOI hollow microspheres at room temperature with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15864-15874	13	170

149	Controllable synthesis of Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> ultrathin nanosheets for photocatalytic removal of ciprofloxacin and mechanism insight. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15108-15118	13	167
148	Facile fabrication of the visible-light-driven Bi <sub>2</sub> WO <sub>6</sub> /BiOBr composite with enhanced photocatalytic activity. <i>RSC Advances</i> , <b>2014</b> , 4, 82-90	3.7	159
147	A g-C <sub>3</sub> N <sub>4</sub> /BiOBr visible-light-driven composite: synthesis via a reactable ionic liquid and improved photocatalytic activity. <i>RSC Advances</i> , <b>2013</b> , 3, 19624	3.7	153
146	Ultrathin two-dimensional materials for photo- and electrocatalytic hydrogen evolution. <i>Materials Today</i> , <b>2018</b> , 21, 749-770	21.8	147
145	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. <i>AIChE Journal</i> , <b>2016</b> , 62, 2087-2100	3.6	144
144	Freestanding atomically-thin two-dimensional materials beyond graphene meeting photocatalysis: Opportunities and challenges. <i>Nano Energy</i> , <b>2017</b> , 35, 79-91	17.1	142
143	Facile fabrication and enhanced visible light photocatalytic activity of few-layer MoS <sub>2</sub> /coupled BiOBr microspheres. <i>Dalton Transactions</i> , <b>2014</b> , 43, 15429-38	4.3	122
142	Constructing confined surface carbon defects in ultrathin graphitic carbon nitride for photocatalytic free radical manipulation. <i>Carbon</i> , <b>2016</b> , 107, 1-10	10.4	121
141	Bismuth vacancy mediated single unit cell Bi <sub>2</sub> WO <sub>6</sub> nanosheets for boosting photocatalytic oxygen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 119-125	21.8	116
140	Carbon Quantum Dots Induced Ultrasmall BiOI Nanosheets with Assembled Hollow Structures for Broad Spectrum Photocatalytic Activity and Mechanism Insight. <i>Langmuir</i> , <b>2016</b> , 32, 2075-84	4	114
139	Bidirectional acceleration of carrier separation spatially via N-CQDs/atomically-thin BiOI nanosheets nanojunctions for manipulating active species in a photocatalytic process. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5051-5061	13	110
138	Carbon quantum dots in situ coupling to bismuth oxyiodide via reactable ionic liquid with enhanced photocatalytic molecular oxygen activation performance. <i>Carbon</i> , <b>2016</b> , 98, 613-623	10.4	104
137	One-pot solvothermal synthesis of Cu-modified BiOCl via a Cu-containing ionic liquid and its visible-light photocatalytic properties. <i>RSC Advances</i> , <b>2014</b> , 4, 14281	3.7	98
136	New insight of Ag quantum dots with the improved molecular oxygen activation ability for photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 188, 376-387	21.8	95
135	Graphene-like boron nitride induced accelerated charge transfer for boosting the photocatalytic behavior of Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> towards bisphenol a removal. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 355-363	14.7	89
134	2D-2D stacking of graphene-like g-C <sub>3</sub> N <sub>4</sub> /Ultrathin Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> with matched energy band structure towards antibiotic removal. <i>Applied Surface Science</i> , <b>2017</b> , 413, 372-380	6.7	87
133	A sensitive signal-on photoelectrochemical sensor for tetracycline determination using visible-light-driven flower-like CN/BiOBr composites. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 111, 74-81	11.8	87
132	Defect engineering in atomically-thin bismuth oxychloride towards photocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14144-14151	13	81

131	N-CQDs accelerating surface charge transfer of Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> hollow nanotubes with broad spectrum photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 1033-1043	21.8	80
130	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 30786-30792	9.5	79
129	Fenton-like ionic liquids/H <sub>2</sub> O <sub>2</sub> system: one-pot extraction combined with oxidation desulfurization of fuel. <i>RSC Advances</i> , <b>2012</b> , 2, 658-664	3.7	75
128	A plasmonic photocatalyst of Ag/AgBr nanoparticles coupled with g-C <sub>3</sub> N <sub>4</sub> with enhanced visible-light photocatalytic ability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 436, 474-483	5.1	74
127	Improved visible light photocatalytic properties of Fe/BiOCl microspheres synthesized via self-doped reactable ionic liquids. <i>CrystEngComm</i> , <b>2013</b> , 15, 10132	3.3	74
126	Biomass willow catkin-derived Co <sub>3</sub> O <sub>4</sub> /N-doped hollow hierarchical porous carbon microtubes as an effective tri-functional electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20170-20179	13	70
125	Tunable oxygen activation induced by oxygen defects in nitrogen doped carbon quantum dots for sustainable boosting photocatalysis. <i>Carbon</i> , <b>2017</b> , 114, 601-607	10.4	69
124	A DFT study of the extractive desulfurization mechanism by [BMIM](+)[AlCl <sub>4</sub> ](-) ionic liquid. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 5995-6009	3.4	69
123	Theoretical evidence of charge transfer interaction between SO <sub>2</sub> and deep eutectic solvents formed by choline chloride and glycerol. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28729-42	3.6	61
122	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>ACS Nano</i> , <b>2020</b> , 14, 595-602	16.7	61
121	Ultrathin g-CN with enriched surface carbon vacancies enables highly efficient photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 530-539	9.3	57
120	Solvothermal synthesis and enhanced visible-light photocatalytic decontamination of bisphenol A (BPA) by g-C <sub>3</sub> N <sub>4</sub> /BiOBr heterojunctions. <i>Materials Science in Semiconductor Processing</i> , <b>2014</b> , 24, 96-103	4.3	57
119	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , <b>2020</b> , 11, 3729	17.4	57
118	Recent Advanced Materials for Electrochemical and Photoelectrochemical Synthesis of Ammonia from Dinitrogen: One Step Closer to a Sustainable Energy Future. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902020	21.8	57
117	Freestanding ultrathin bismuth-based materials for diversified photocatalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25203-25226	13	56
116	Sacrificing ionic liquid-assisted anchoring of carbonized polymer dots on perovskite-like PbBiO <sub>2</sub> Br for robust CO <sub>2</sub> photoreduction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 551-559	21.8	55
115	Improved photocatalytic activity of few-layer Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> nanosheets induced by efficient charge separation and lower valence position. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 922-930	5.7	52
114	Ionic liquid-assisted synthesis and improved photocatalytic activity of p-n junction g-C <sub>3</sub> N <sub>4</sub> /BiOCl. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4769-4777	4.3	52

113	Oxygen vacancies modulated Bi-rich bismuth oxyiodide microspheres with tunable valence band position to boost the photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 612-620	9.3	52
112	Space-Confined Yolk-Shell Construction of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Inside N-Doped Hollow Mesoporous Carbon Spheres as Bifunctional Electrocatalysts for Long-Term Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005834	15.6	51
111	Graphitic carbon nitride/BiOCl composites for sensitive photoelectrochemical detection of ciprofloxacin. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 483, 241-248	9.3	51
110	Ionic liquid-induced double regulation of carbon quantum dots modified bismuth oxychloride/bismuth oxybromide nanosheets with enhanced visible-light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 263-272	9.3	49
109	Microwave-assisted synthesis of few-layered MoS <sub>2</sub> /BiOBr hollow microspheres with superior visible-light-response photocatalytic activity for ciprofloxacin removal. <i>CrystEngComm</i> , <b>2015</b> , 17, 3645-3651	3.3	48
108	Graphene-like boron nitride modified bismuth phosphate materials for boosting photocatalytic degradation of enrofloxacin. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 492, 51-60	9.3	47
107	High yield synthesis of nano-size g-C <sub>3</sub> N <sub>4</sub> derivatives by a dissolve-regrowth method with enhanced photocatalytic ability. <i>RSC Advances</i> , <b>2015</b> , 5, 26281-26290	3.7	47
106	La <sup>3+</sup> doped BiOBr microsphere with enhanced visible light photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 513, 160-167	5.1	45
105	Graphitic Carbon Nitride Nanorods for Photoelectrochemical Sensing of Trace Copper(II) Ions. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 3665-3673	2.3	44
104	Linkage Engineering by Harnessing Supramolecular Interactions to Fabricate 2D Hydrazone-Linked Covalent Organic Framework Platforms toward Advanced Catalysis. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18138-18149	16.4	44
103	Construction of NH <sub>2</sub> -UiO-66/BiOBr composites with boosted photocatalytic activity for the removal of contaminants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 579, 123625	5.1	42
102	Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> ultrasmall nanosheets in situ strong coupling to MWCNT and improved photocatalytic activity for tetracycline hydrochloride degradation. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 424, 331-341		42
101	Ionic liquid-assisted bidirectional regulation strategy for carbon quantum dots (CQDs)/Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> nanomaterials and enhanced photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 478, 324-33	9.3	41
100	S, N Codoped Graphene Quantum Dots Embedded in (BiO) <sub>2</sub> CO <sub>3</sub> : Incorporating Enzymatic-like Catalysis in Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10229-10240	8.3	41
99	An All-Organic D-A System for Visible-Light-Driven Overall Water Splitting. <i>Small</i> , <b>2020</b> , 16, e2003914	11	41
98	Ionic liquid-assisted strategy for bismuth-rich bismuth oxybromides nanosheets with superior visible light-driven photocatalytic removal of bisphenol-A. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 473, 112-9	9.3	40
97	A simple and cost-effective extractive desulfurization process with novel deep eutectic solvents. <i>RSC Advances</i> , <b>2016</b> , 6, 30345-30352	3.7	38
96	Strain-Engineering of Bi <sub>12</sub> O <sub>17</sub> Br <sub>2</sub> Nanotubes for Boosting Photocatalytic CO <sub>2</sub> Reduction	<b>2020</b> , 2, 1025-1032	38

95	Photocatalytic degradation of methylene blue on magnetically separable FePc/Fe <sub>3</sub> O <sub>4</sub> nanocomposite under visible irradiation. <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 2327-2335	2.1	37
94	The enhanced visible light photocatalytic activity of yttrium-doped BiOBr synthesized via a reactable ionic liquid. <i>Applied Surface Science</i> , <b>2015</b> , 331, 170-178	6.7	36
93	Facile synthesis of few-layered MoS <sub>2</sub> modified BiOI with enhanced visible-light photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 511, 1-7	5.1	34
92	One-dimensional Ni(OH) <sub>2</sub> nanostructures: Ionic liquid etching synthesis, formation mechanism, and application for electrochemical capacitors. <i>CrystEngComm</i> , <b>2011</b> , 13, 7108	3.3	34
91	The CoMo-LDH ultrathin nanosheet as a highly active and bifunctional electrocatalyst for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2964-2970	6.8	34
90	Defect-Rich Bi <sub>12</sub> O <sub>17</sub> Cl <sub>2</sub> Nanotubes Self-Accelerating Charge Separation for Boosting Photocatalytic CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15063-15067	3.6	34
89	Controlled preparation of MoS/PbBiOI hybrid microspheres with enhanced visible-light photocatalytic behaviour. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 517, 278-287	9.3	33
88	TiO <sub>2</sub> microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. <i>RSC Advances</i> , <b>2016</b> , 6, 42402-42412	3.7	33
87	Photoelectrochemical sensing of 4-chlorophenol based on Au/BiOCl nanocomposites. <i>Talanta</i> , <b>2016</b> , 156-157, 257-264	6.2	32
86	Bismuth-rich bismuth oxyhalides: a new opportunity to trigger high-efficiency photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21434-21454	13	32
85	Preparation of magnetic Ag/AgCl/CoFe <sub>2</sub> O <sub>4</sub> composites with high photocatalytic and antibacterial ability. <i>RSC Advances</i> , <b>2015</b> , 5, 41475-41483	3.7	29
84	Novel mesoporous graphitic carbon nitride modified PbBiOBr porous microspheres with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 310-322	9.3	29
83	Partially etched Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> by metal chloride for enhanced reactive oxygen species generation: A tale of two strategies. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 325-333	21.8	29
82	Charge steering in ultrathin 2D nanomaterials for photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12928-12950	13	27
81	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM](+)[FeCl <sub>4</sub> ](-) ionic liquid in desulfurization: A novel charge transfer mechanism. <i>Journal of Molecular Graphics and Modelling</i> , <b>2015</b> , 59, 40-9	2.8	26
80	High-Capacity and Long-Cycle Life Aqueous Rechargeable Lithium-Ion Battery with the FePO Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7061-7068	9.5	25
79	Enhanced photoelectrochemical sensing performance of graphitic carbon nitride by nitrogen vacancies engineering. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 148, 111802	11.8	25
78	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. <i>Information Materials</i> , <b>2020</b> , 2, 593-600	23.1	25

77	Enhanced reactive oxygen species activation for building carbon quantum dots modified BiOI nanorod composites and optimized visible-light-response photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 727-737	9.3	24
76	Unique Z-scheme carbonized polymer dots/Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> hybrids for efficiently boosting photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 293, 120182	21.8	24
75	In-situ preparation of MIL-125(Ti)/Bi <sub>2</sub> WO <sub>6</sub> photocatalyst with accelerating charge carriers for the photodegradation of tetracycline hydrochloride. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 387, 112149	4.7	23
74	Construction of NH <sub>2</sub> -MIL-125(Ti)/Bi <sub>2</sub> WO <sub>6</sub> composites with accelerated charge separation for degradation of organic contaminants under visible light irradiation. <i>Green Energy and Environment</i> , <b>2020</b> , 5, 203-213	5.7	22
73	High-performance electrolytic oxygen evolution with a seamless armor core-shell FeCoNi oxynitride. <i>Nanoscale</i> , <b>2019</b> , 11, 7239-7246	7.7	21
72	Ionic liquid induced mechanochemical synthesis of BiOBr ultrathin nanosheets at ambient temperature with superior visible-light-driven photocatalysis. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 574, 131-139	9.3	21
71	Controllable synthesis of perovskite-like PbBiO <sub>2</sub> Cl hollow microspheres with enhanced photocatalytic activity for antibiotic removal. <i>CrystEngComm</i> , <b>2017</b> , 19, 4777-4788	3.3	21
70	Photoelectrochemical sensing of bisphenol a based on graphitic carbon nitride/bismuth oxyiodine composites. <i>RSC Advances</i> , <b>2017</b> , 7, 7929-7935	3.7	20
69	Construction of ultrathin MoS/BiOI composites: Effective charge separation and increased photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 475-484	9.3	20
68	In-situ preparation of iron(II) phthalocyanine modified bismuth oxybromide with enhanced visible-light photocatalytic activity and mechanism insight. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 575, 336-345	5.1	19
67	Preparation of 1D CuO Nanorods by Means of a Metal Ion Containing Ionic Liquid and Their Supercapacitance. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 2315-2323	2.3	19
66	Ionic Liquid Assisted Solvothermal Synthesis of Cu Polyhedron-Pattern Nanostructures and Their Application as Enhanced Nanoelectrocatalysts for Glucose Detection. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 1361-1365	2.3	19
65	Construction of solid-liquid interfacial Fenton-like reaction under visible light irradiation over etched CoxFeyO <sub>4</sub> /BiOBr photocatalysts. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 551-561	5.5	19
64	Novel CNT/PbBiO <sub>2</sub> Br hybrid materials with enhanced broad spectrum photocatalytic activity toward ciprofloxacin (CIP) degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 382, 111901	4.7	18
63	One-pot synthesis of ordered mesoporous silica encapsulated polyoxometalate-based ionic liquids induced efficient desulfurization of organosulfur in fuel. <i>RSC Advances</i> , <b>2015</b> , 5, 76048-76056	3.7	18
62	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Graphene Oxide Free-Standing Membranes as Modified Separators for Lithium Sulfur Batteries with Enhanced Rate Performance. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2708-2718	6.1	18
61	Interface engineering in low-dimensional bismuth-based materials for photoreduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2662-2677	13	18
60	Synthesis of Multiwalled Carbon Nanotube Modified BiOCl Microspheres with Enhanced Visible-Light Response Photoactivity. <i>Clean - Soil, Air, Water</i> , <b>2016</b> , 44, 781-787	1.6	17

59	Construction of MIL-125(Ti)/ZnIn <sub>2</sub> S <sub>4</sub> composites with accelerated interfacial charge transfer for boosting visible light photoreactivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 585, 124078	5.1	17
58	A Janus cobalt nanoparticles and molybdenum carbide decorated N-doped carbon for high-performance overall water splitting. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 614-625	9.3	17
57	Oxygen Vacancies Engineering Mediated BiOBr Atomic Layers for Boosting Visible Light-Driven Photocatalytic CO <sub>2</sub> Reduction. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000480	7.1	17
56	Exploitation of a photoelectrochemical sensing platform for catechol quantitative determination using BiPO nanocrystals/BiOI heterojunction. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1042, 11-19	6.6	16
55	Atomic-level active sites steering in ultrathin photocatalysts to trigger high efficiency nitrogen fixation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126208	14.7	16
54	A Tandem 0D/2D/2D NbS Quantum Dot/Nb O Nanosheet/g-C N Flake System with Spatial Charge-Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. <i>Small</i> , <b>2020</b> , 16, e2003302	11	16
53	Surfactant-assisted hydrothermal synthesis of MoS <sub>2</sub> micro-pompon structure with enhanced photocatalytic performance under visible light. <i>Tungsten</i> , <b>2020</b> , 2, 203-213	4.6	15
52	Ni Co O Nanoneedle Arrays Grown on Ni Foam as an Efficient Bifunctional Electrocatalyst for Full Water Splitting. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 480-485	4.5	15
51	Engineering Cocatalysts onto Low-Dimensional Photocatalysts for CO <sub>2</sub> Reduction. <i>Small Structures</i> , <b>2021</b> , 2, 2100046	8.7	15
50	New strategy towards the assembly of hierarchical heterostructures of SnO <sub>2</sub> /ZnO for NO <sub>2</sub> detection at a ppb level. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2801-2809	6.8	14
49	Significant improvement of photocatalytic activity of porous graphitic-carbon nitride/bismuth oxybromide microspheres synthesized in an ionic liquid by microwave-assisted processing. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 32, 117-124	4.3	14
48	In situ growth of Ag/AgCl on the surface of CNT and the effect of CNT on the photoactivity of the composite. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 5540-5547	3.6	12
47	Organic-inorganic TCPP/BiOCl hybrids with accelerated interfacial charge separation for boosted photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 616, 126367	5.1	12
46	Hexacyanoferrate-based ionic liquids as Fenton-like catalysts for deep oxidative desulfurization of fuels. <i>Applied Organometallic Chemistry</i> , <b>2016</b> , 30, 753-758	3.1	11
45	Surface Local Polarization Induced by Bismuth-Oxygen Vacancy Pairs Tuning Non-Covalent Interaction for CO <sub>2</sub> Photoreduction. <i>Advanced Energy Materials</i> , 2102389	21.8	11
44	Ultrathin graphitic carbon nitride modified PbBiO <sub>2</sub> Cl microspheres with accelerating interfacial charge transfer for the photodegradation of organic contaminants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 582, 123804	5.1	10
43	Reactable ionic liquid-assisted solvothermal synthesis of flower-like bismuth oxybromide microspheres with highly visible-light photocatalytic performances. <i>Micro and Nano Letters</i> , <b>2013</b> , 8, 450-454	9.9	10
42	CQDs modified PbBiO <sub>2</sub> Cl nanosheets with improved molecular oxygen activation ability for photodegradation of organic contaminants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 382, 111921	4.7	9



41	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. <i>Small Structures</i> , <b>2021</b> , 2, 2000153	8.7	9
40	Oxygen vacancies in Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> quantum dots to trigger efficient photocatalytic nitrogen reduction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 299, 120680	21.8	9
39	Construction of NH <sub>2</sub> -MIL-125(Ti) nanoplates modified Bi <sub>2</sub> WO <sub>6</sub> microspheres with boosted visible-light photocatalytic activity. <i>Research on Chemical Intermediates</i> , <b>2020</b> , 46, 3311-3326	2.8	7
38	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , <b>2015</b> , 5, 99927-99934	3.7	7
37	Electrochemical polymerization of helical poly(2-methoxyaniline) doped with β-cyclodextrin sulfate: pH driving the opposition of induced circular dichroism. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 705-711	2.4	7
36	Tuning the Active Sites of Atomically Thin Defective BiOCl via Incorporation of Subnanometer Clusters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 9216-9223	9.5	7
35	The novel photo-Fenton-like few-layer MoS <sub>2</sub> /FeVO <sub>4</sub> composite for improved degradation activity under visible light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 623, 126721	5.1	7
34	One-pot ionic liquid-assisted strategy for GO/BiOI hybrids with superior visible-driven photocatalysis and mechanism research. <i>Materials Technology</i> , <b>2017</b> , 32, 131-139	2.1	6
33	Double regulation of bismuth and halogen source for the preparation of bismuth oxybromide nanosquares with enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 492, 25-32	9.3	6
32	Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Modified 2D N-Doped Porous Graphene-like Carbon as an Efficient and Robust Electrocatalyst for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , <b>2019</b> , 4, 4131-4139	1.8	6
31	Machine Learning Driven Synthesis of Few-Layered WTe with Geometrical Control. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18103-18113	16.4	6
30	Improved Solar Energy Photoactivity over Defective BiOBr Ultrathin Nanosheets towards Pollutant Removal and Oxygen Evolution. <i>ChemNanoMat</i> , <b>2019</b> , 5, 215-223	3.5	6
29	Size-Dependent Activity of Iron-Nickel Oxynitride towards Electrocatalytic Oxygen Evolution. <i>ChemNanoMat</i> , <b>2019</b> , 5, 883-887	3.5	5
28	Construction of 2D/2D MoS <sub>2</sub> /PbBiO <sub>2</sub> Cl nanosheet photocatalysts with accelerated interfacial charge transfer for boosting visible light photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 609, 125655	5.1	5
27	One-step Mechanical Synthesis of Oxygen-defect Modified Ultrathin Bi <sub>12</sub> O <sub>17</sub> Br <sub>2</sub> Nanosheets for Boosting Photocatalytic Activity. <i>ChemistrySelect</i> , <b>2020</b> , 5, 11177-11184	1.8	5
26	Fabrication of functional dual-mesoporous silicas by using peroxo-tungstate ionic liquid and their applications in oxidative desulfurization. <i>Journal of Porous Materials</i> , <b>2015</b> , 22, 1227-1233	2.4	4
25	A three-dimensional porous MoS <sub>2</sub> /BVP aerogel as a highly efficient and recyclable sorbent for oils and organic solvents. <i>Materials Advances</i> , <b>2020</b> , 1, 760-766	3.3	4
24	Reusable Graphitic Carbon Nitride Nanosheet-Based Aerogels as Sorbents for Oils and Organic Solvents. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8176-8181	5.6	4

23	Graphene-like BN/BiOBr composite: synthesis via a reactable ionic liquid and enhanced visible light photocatalytic performance. <i>Materials Technology</i> , <b>2016</b> , 31, 463-470	2.1	4
22	Metal ion-containing ionic liquid assisted synthesis and enhanced photoelectrochemical performance of g-C <sub>3</sub> N <sub>4</sub> /ZnO composites. <i>Materials Technology</i> , <b>2018</b> , 33, 185-192	2.1	4
21	SBA-15 supported molybdenum oxide towards efficient catalytic oxidative desulfurization: effect of calcination temperature of catalysts. <i>Journal of the Chinese Advanced Materials Society</i> , <b>2018</b> , 6, 44-54		3
20	Controlled synthesis of novel PbBiO <sub>2</sub> I microsphere structure towards photocatalytic degradation of bisphenol A. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 5879-5891	2.8	3
19	Nanocomposites of urethane and montmorillonite clay in emulsion: In situ preparation and characterization. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 1964-1969	2.9	3
18	Oxygen vacancies mediated BiOCl ultrathin nanobelts: Boosting molecular oxygen activation for efficient organic pollutants degradation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 609, 23-32	9.3	3
17	Integration of double halogen atoms in atomically thin bismuth bromide: Mutative electronic structure steering charge carrier migration boosted broad-spectrum photocatalysis. <i>Applied Surface Science</i> , <b>2021</b> , 541, 148477	6.7	3
16	Controlled growth of BaMoO <sub>4</sub> hierarchical superstructures in functionalized ionic liquids. <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 2355-2367	2.1	2
15	Edge-Site-Rich Ordered Macroporous BiOCl Triggers C <sub>2</sub> O Activation for Efficient CO Photoreduction. <i>Small</i> , <b>2021</b> , e2105228	11	2
14	Ionic Liquid-Assisted Synthesis of Ag <sub>3</sub> PO <sub>4</sub> Spheres for Boosting Photodegradation Activity under Visible Light. <i>Catalysts</i> , <b>2021</b> , 11, 788	4	2
13	In situ preparation of Bi <sub>2</sub> O <sub>3</sub> /(BiO) <sub>2</sub> CO <sub>3</sub> composite photocatalyst with enhanced visible-light photocatalytic activity. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 1601-1613	2.8	2
12	In-Situ Synthesis of MoS <sub>2</sub> /BiOBr Material via Mechanical Ball Milling for Boosted Photocatalytic Degradation Pollutants Performance. <i>ChemistrySelect</i> , <b>2021</b> , 6, 928-936	1.8	2
11	Construction of 0D/3D carbon quantum dots modified PbBiO <sub>2</sub> Cl microspheres with accelerated charge carriers for promoted visible-light-driven degradation of organic contaminants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 642, 128591	5.1	2
10	Ionic liquid-induced preparation of novel CNTs/PbBiO <sub>2</sub> Cl nanosheet photocatalyst with boosted photocatalytic activity for the removal of organic contaminants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 634, 127894	5.1	1
9	Dual modulation steering electron reducibility and transfer of bismuth molybdate nanoparticle to boost carbon dioxide photoreduction to carbon monoxide. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 610, 518-518	9.3	1
8	Recent Progress on Zeolitic Imidazolate Frameworks and Their Derivatives in Alkali Metal/Chalcogen Batteries. <i>Advanced Energy Materials</i> , 2103152	21.8	1
7	Controllable synthesis of FeWO <sub>4</sub> /BiOBr in reactive ionic liquid with effective charge separation towards photocatalytic pollutant removal. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 437-451	2.8	1
6	Synergy between plasmonic and sites on gold nanoparticle-modified bismuth-rich bismuth oxybromide nanotubes for the efficient photocatalytic CC coupling synthesis of ethane.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 649-658	9.3	1

5	Fabrication of MoS <sub>2</sub> /FeOCl Composites as Heterogeneous Photo-Fenton Catalysts for the Efficient Degradation of Water Pollutants under Visible Light Irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 129357	5.1	1
4	Nitrogen Reduction Reaction: Recent Advanced Materials for Electrochemical and Photoelectrochemical Synthesis of Ammonia from Dinitrogen: One Step Closer to a Sustainable Energy Future (Adv. Energy Mater. 11/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070049	21.8	0
3	Graphene-Analogue Boron Nitride Modified Bismuth Oxyiodide with Increased Visible-Light Photocatalytic Performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800146	1.6	0
2	Rational construction of tetraphenylporphyrin/bismuth oxybromide nanocomposite with accelerated interfacial charge transfer for promoted visible-light-driven degradation of antibiotics. <i>Research on Chemical Intermediates</i> , 1	2.8	0
1	Boosting CO <sub>2</sub> Capture and Its Photochemical Conversion on Bismuth Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000671	1.6	0