

# Yin Sheng

## List of Publications by Year in descending order

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166  
papers

13,464  
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18482

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168  
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168  
docs citations

168  
times ranked

10735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Defect Engineering in 2D Nanomaterials for Photocatalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1801983.	14.9	472
2	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> , 2014, 2, 5340.	10.3	439
3	Bismuth oxyhalide layered materials for energy and environmental applications. <i>Nano Energy</i> , 2017, 41, 172-192.	16.0	413
4	Ultrathin 2D Photocatalysts: Electronic Structure Tailoring, Hybridization, and Applications. <i>Advanced Materials</i> , 2018, 30, 1704548.	21.0	409
5	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> , 2016, 181, 260-269.	20.2	380
6	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> , 2016, 26, 4712-4721.	14.9	348
7	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> , 2014, 2, 2563.	10.3	330
8	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 - International Edition</i> , 2018, 57, 14847-14851.	13.8	329
9	Isolated single atom cobalt in Bi <sub>3</sub> O <sub>4</sub> Br atomic layers to trigger efficient CO <sub>2</sub> photoreduction. <i>Nature Communications</i> , 2019, 10, 2840.	12.8	327
10	Defect-Tailoring Mediated Electron-Hole Separation in Single-Unit Cell Bi <sub>3</sub> O <sub>4</sub> Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. <i>Advanced Materials</i> , 2019, 31, e1807576.	21.0	311
11	The synergistic role of carbon quantum dots for the improved photocatalytic performance of Bi <sub>2</sub> MoO <sub>6</sub> . <i>Nanoscale</i> , 2015, 7, 11433-11443.	5.6	306
12	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> , 2015, 7, 20111-20123.	8.0	302
13	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> , 2015, 478, 71-80.	4.7	253
14	Improved visible light photocatalytic activity of sphere-like BiOBr hollow and porous structures synthesized via a reactable ionic liquid. <i>Dalton Transactions</i> , 2011, 40, 5249.	3.3	236
15	Ultrathin two-dimensional materials for photo- and electrocatalytic hydrogen evolution. <i>Materials Today</i> , 2018, 21, 749-770.	14.2	228
16	Commercially available molybdic compound-catalyzed ultra-deep desulfurization of fuels in ionic liquids. <i>Green Chemistry</i> , 2008, 10, 641.	9.0	214
17	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> , 2015, 3, 15108-15118.	10.3	202
18	Reactable ionic liquid-assisted rapid synthesis of BiOI hollow microspheres at room temperature with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15864-15874.	10.3	196

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19	Oxidative Desulfurization of Fuels Catalyzed by Peroxotungsten and Peroxomolybdenum Complexes in Ionic Liquids. <i>Energy &amp; Fuels</i> , 2007, 21, 2514-2516.	5.1	195
20	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. <i>AIChE Journal</i> , 2016, 62, 2087-2100.	3.6	192
21	Freestanding atomically-thin two-dimensional materials beyond graphene meeting photocatalysis: Opportunities and challenges. <i>Nano Energy</i> , 2017, 35, 79-91.	16.0	179
22	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> , 2014, 4, 82-90.	3.6	174
23	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> , 2018, 238, 119-125.	20.2	173
24	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> , 2013, 3, 19624.	3.6	162
25	Constructing confined surface carbon defects in ultrathin graphitic carbon nitride for photocatalytic free radical manipulation. <i>Carbon</i> , 2016, 107, 1-10.	10.3	159
26	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30786-30792.	8.0	140
27	Carbon Quantum Dots Induced Ultrasmall BiOI Nanosheets with Assembled Hollow Structures for Broad Spectrum Photocatalytic Activity and Mechanism Insight. <i>Langmuir</i> , 2016, 32, 2075-2084.	3.5	136
28	Facile fabrication and enhanced visible light photocatalytic activity of few-layer MoS <sub>2</sub> -coupled BiOBr microspheres. <i>Dalton Transactions</i> , 2014, 43, 15429-15438.	3.3	133
29	New insight of Ag quantum dots with the improved molecular oxygen activation ability for photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 376-387.	20.2	131
30	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> , 2016, 4, 5051-5061.	10.3	126
31	Carbon quantum dots in situ coupling to bismuth oxyiodide via reactable ionic liquid with enhanced photocatalytic molecular oxygen activation performance. <i>Carbon</i> , 2016, 98, 613-623.	10.3	123
32	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020, 11, 3729.	12.8	120
33	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> , 2020, 30, 2005834.	14.9	119
34	A sensitive signal-on photoelectrochemical sensor for tetracycline determination using visible-light-driven flower-like CN/BiOBr composites. <i>Biosensors and Bioelectronics</i> , 2018, 111, 74-81.	10.1	115
35	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> , 2020, 10, 1902020.	19.5	113
36	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> , 2018, 237, 1033-1043.	20.2	112

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37	Ultrathin g-C <sub>3</sub> N <sub>4</sub> with enriched surface carbon vacancies enables highly efficient photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 530-539.	9.4	112
38	One-pot solvothermal synthesis of Cu-modified BiOCl via a Cu-containing ionic liquid and its visible-light photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 14281.	3.6	111
39	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> , 2017, 413, 372-380.	6.1	111
40	Graphene-like boron nitride induced accelerated charge transfer for boosting the photocatalytic behavior of Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> towards bisphenol a removal. <i>Chemical Engineering Journal</i> , 2018, 331, 355-363.	12.7	111
41	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> , 2021, 293, 120182.	20.2	110
42	Surface Local Polarization Induced by Bismuth-Oxygen Vacancy Pairs Tuning Non-Covalent Interaction for CO <sub>2</sub> Photoreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2102389.	19.5	109
43	Defect engineering in atomically-thin bismuth oxychloride towards photocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14144-14151.	10.3	107
44	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>ACS Nano</i> , 2020, 14, 595-602.	14.6	104
45	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> , 2017, 5, 20170-20179.	10.3	102
46	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> , 2020, 142, 18138-18149.	13.7	99
47	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> , 2019, 254, 551-559.	20.2	91
48	Freestanding ultrathin bismuth-based materials for diversified photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25203-25226.	10.3	90
49	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> , 2013, 436, 474-483.	4.7	89
50	A DFT Study of the Extractive Desulfurization Mechanism by [BMIM] <sup>+</sup> [AlCl <sub>4</sub> ] <sup>-</sup> Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5995-6009.	2.6	88
51	Tunable oxygen activation induced by oxygen defects in nitrogen doped carbon quantum dots for sustainable boosting photocatalysis. <i>Carbon</i> , 2017, 114, 601-607.	10.3	86
52	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> , 2019, 579, 123625.	4.7	85
53	Improved visible light photocatalytic properties of Fe/BiOCl microspheres synthesized via self-doped reactable ionic liquids. <i>CryEngComm</i> , 2013, 15, 10132.	2.6	84
54	Bismuth-rich bismuth oxyhalides: a new opportunity to trigger high-efficiency photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21434-21454.	10.3	84

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55	Strain-Engineering of Bi <sub>2</sub> O <sub>3</sub> Br <sub>2</sub> Nanotubes for Boosting Photocatalytic CO <sub>2</sub> Reduction. , 2020, 2, 1025-1032.		82
56	Fenton-like ionic liquids/H <sub>2</sub> O <sub>2</sub> system: one-pot extraction combined with oxidation desulfurization of fuel. RSC Advances, 2012, 2, 658-664.	3.6	81
57	Theoretical evidence of charge transfer interaction between SO <sub>2</sub> and deep eutectic solvents formed by choline chloride and glycerol. Physical Chemistry Chemical Physics, 2015, 17, 28729-28742.	2.8	80
58	An All-Organic Dye System for Visible-Light-Driven Overall Water Splitting. Small, 2020, 16, e2003914.	10.0	80
59	Oxygen vacancies modulated Bi-rich bismuth oxyiodide microspheres with tunable valence band position to boost the photocatalytic activity. Journal of Colloid and Interface Science, 2019, 533, 612-620.	9.4	77
60	The CoMo-LDH ultrathin nanosheet as a highly active and bifunctional electrocatalyst for overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 2964-2970.	6.0	76
61	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. Journal of Alloys and Compounds, 2017, 695, 922-930.	5.5	68
62	Solvothermal synthesis and enhanced visible-light photocatalytic decontamination of bisphenol A (BPA) by g-C <sub>3</sub> N <sub>4</sub> /BiOBr heterojunctions. Materials Science in Semiconductor Processing, 2014, 24, 96-103.	4.0	66
63	Ionic liquid-induced double regulation of carbon quantum dots modified bismuth oxychloride/bismuth oxybromide nanosheets with enhanced visible-light photocatalytic activity. Journal of Colloid and Interface Science, 2018, 519, 263-272.	9.4	66
64	Ionic liquid-assisted synthesis and improved photocatalytic activity of p-n junction g-C <sub>3</sub> N <sub>4</sub> /BiOCl. Journal of Materials Science, 2016, 51, 4769-4777.	3.7	65
65	Graphitic carbon nitride/BiOCl composites for sensitive photoelectrochemical detection of ciprofloxacin. Journal of Colloid and Interface Science, 2016, 483, 241-248.	9.4	63
66	Graphene-like boron nitride modified bismuth phosphate materials for boosting photocatalytic degradation of enrofloxacin. Journal of Colloid and Interface Science, 2017, 492, 51-60.	9.4	59
67	Microwave-assisted synthesis of few-layered MoS <sub>2</sub> /BiOBr hollow microspheres with superior visible-light-response photocatalytic activity for ciprofloxacin removal. CrystEngComm, 2015, 17, 3645-3651.	2.6	57
68	La <sup>3+</sup> doped BiOBr microsphere with enhanced visible light photocatalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 160-167.	4.7	55
69	S, N Codoped Graphene Quantum Dots Embedded in (BiO) <sub>2</sub> CO <sub>3</sub> : Incorporating Enzymatic-like Catalysis in Photocatalysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 10229-10240.	6.7	55
70	A Janus cobalt nanoparticles and molybdenum carbide decorated N-doped carbon for high-performance overall water splitting. Journal of Colloid and Interface Science, 2021, 583, 614-625.	9.4	53
71	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. Journal of Molecular Catalysis A, 2016, 424, 331-341.	4.8	52
72	Graphitic Carbon Nitride Nanorods for Photoelectrochemical Sensing of Trace Copper(II) Ions. European Journal of Inorganic Chemistry, 2014, 2014, 3665-3673.	2.0	51

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73	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. RSC Advances, 2015, 5, 26281-26290.	3.6	51
74	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. Journal of Colloid and Interface Science, 2016, 478, 324-333.	9.4	51
75	A simple and cost-effective extractive desulfurization process with novel deep eutectic solvents. RSC Advances, 2016, 6, 30345-30352.	3.6	51
76	The enhanced visible light photocatalytic activity of yttrium-doped BiOBr synthesized via a reactable ionic liquid. Applied Surface Science, 2015, 331, 170-178.	6.1	50
77	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. Applied Catalysis B: Environmental, 2019, 245, 325-333.	20.2	45
78	Charge steering in ultrathin 2D nanomaterials for photocatalysis. Journal of Materials Chemistry A, 2020, 8, 12928-12950.	10.3	44
79	Ionic liquid-assisted strategy for bismuth-rich bismuth oxybromides nanosheets with superior visible light-driven photocatalytic removal of bisphenol-A. Journal of Colloid and Interface Science, 2016, 473, 112-119.	9.4	43
80	TiO <sub>2</sub> microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. RSC Advances, 2016, 6, 42402-42412.	3.6	43
81	Facile synthesis of few-layered MoS <sub>2</sub> modified BiOI with enhanced visible-light photocatalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 511, 1-7.	4.7	43
82	Enhanced photoelectrochemical sensing performance of graphitic carbon nitride by nitrogen vacancies engineering. Biosensors and Bioelectronics, 2020, 148, 111802.	10.1	43
83	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. Green Energy and Environment, 2020, 5, 203-213.	8.7	43
84	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. ACS Applied Energy Materials, 2020, 3, 2708-2718.	5.1	42
85	Oxygen Vacancies Engineering-Mediated BiOBr Atomic Layers for Boosting Visible Light-Driven Photocatalytic CO <sub>2</sub> Reduction. Solar Rrl, 2021, 5, 2000480.	5.8	42
86	Photocatalytic degradation of methylene blue on magnetically separable FePc/Fe <sub>3</sub> O <sub>4</sub> nanocomposite under visible irradiation. Pure and Applied Chemistry, 2009, 81, 2327-2335.	1.9	41
87	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. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 387, 112149.	3.9	41
88	Photoelectrochemical sensing of 4-chlorophenol based on Au/BiOCl nanocomposites. Talanta, 2016, 156-157, 257-264.	5.5	40
89	Atomic-level active sites steering in ultrathin photocatalysts to trigger high efficiency nitrogen fixation. Chemical Engineering Journal, 2020, 402, 126208.	12.7	40
90	A Tandem OD/2D/2D NbS <sub>2</sub> Quantum Dot/Nb <sub>2</sub> O <sub>5</sub> Nanosheet/g-C <sub>3</sub> N <sub>4</sub> Flake System with Spatial Charge-Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. Small, 2020, 16, e2003302.	10.0	40

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91	Engineering Cocatalysts onto Low-Dimensional Photocatalysts for CO <sub>2</sub> Reduction. Small Structures, 2021, 2, 2100046.	12.0	40
92	Oxygen vacancies in Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> quantum dots to trigger efficient photocatalytic nitrogen reduction. Applied Catalysis B: Environmental, 2021, 299, 120680.	20.2	40
93	Controlled preparation of MoS <sub>2</sub> /PbBiO <sub>2</sub> I hybrid microspheres with enhanced visible-light photocatalytic behaviour. Journal of Colloid and Interface Science, 2018, 517, 278-287.	9.4	38
94	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. Angewandte Chemie, 2018, 130, 15063-15067.	2.0	38
95	One-dimensional Ni(OH) <sub>2</sub> nanostructures: Ionic liquid etching synthesis, formation mechanism, and application for electrochemical capacitors. CrystEngComm, 2011, 13, 7108.	2.6	37
96	Construction of ultrathin MoS <sub>2</sub> /Bi <sub>5</sub> O <sub>7</sub> I composites: Effective charge separation and increased photocatalytic activity. Journal of Colloid and Interface Science, 2020, 560, 475-484.	9.4	35
97	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM][FeCl <sub>4</sub> ] <sup>-</sup> ionic liquid in desulfurization: A novel charge transfer mechanism. Journal of Molecular Graphics and Modelling, 2015, 59, 40-49.	2.4	34
98	High-Capacity and Long-Cycle Life Aqueous Rechargeable Lithium-Ion Battery with the FePO <sub>4</sub> Anode. ACS Applied Materials & Interfaces, 2018, 10, 7061-7068.	8.0	34
99	Enhanced reactive oxygen species activation for building carbon quantum dots modified Bi <sub>5</sub> O <sub>7</sub> I nanorod composites and optimized visible-light-response photocatalytic performance. Journal of Colloid and Interface Science, 2018, 532, 727-737.	9.4	34
100	Construction of MIL-125(Ti)/ZnIn <sub>2</sub> S <sub>4</sub> composites with accelerated interfacial charge transfer for boosting visible light photoreactivity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124078.	4.7	34
101	Preparation of magnetic Ag/AgCl/CoFe <sub>2</sub> O <sub>4</sub> composites with high photocatalytic and antibacterial ability. RSC Advances, 2015, 5, 41475-41483.	3.6	32
102	In-situ preparation of iron(II) phthalocyanine modified bismuth oxybromide with enhanced visible-light photocatalytic activity and mechanism insight. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 336-345.	4.7	32
103	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. Informa-Materially, 2020, 2, 593-600.	17.3	32
104	Ionic liquid induced mechanochemical synthesis of BiOBr ultrathin nanosheets at ambient temperature with superior visible-light-driven photocatalysis. Journal of Colloid and Interface Science, 2020, 574, 131-139.	9.4	32
105	Interface engineering in low-dimensional bismuth-based materials for photoreduction reactions. Journal of Materials Chemistry A, 2021, 9, 2662-2677.	10.3	32
106	Novel mesoporous graphitic carbon nitride modified PbBiO <sub>2</sub> Br porous microspheres with enhanced photocatalytic performance. Journal of Colloid and Interface Science, 2017, 507, 310-322.	9.4	31
107	Novel CNT/PbBiO <sub>2</sub> Br hybrid materials with enhanced broad spectrum photocatalytic activity toward ciprofloxacin (CIP) degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111901.	3.9	31
108	Surfactant-assisted hydrothermal synthesis of MoS <sub>2</sub> micro-pompon structure with enhanced photocatalytic performance under visible light. Tungsten, 2020, 2, 203-213.	4.8	31

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109	Machine Learning Driven Synthesis of Few-Layered $\text{WTe}_2$ with Geometrical Control. <i>Journal of the American Chemical Society</i> , 2021, 143, 18103-18113.	13.7	30
110	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. <i>Small Structures</i> , 2021, 2, 2000153.	12.0	29
111	Controllable synthesis of perovskite-like $\text{PbBiO}_2\text{Cl}$ hollow microspheres with enhanced photocatalytic activity for antibiotic removal. <i>CrystEngComm</i> , 2017, 19, 4777-4788.	2.6	28
112	High-performance electrolytic oxygen evolution with a seamless armor core-shell $\text{FeCoNi}$ oxynitride. <i>Nanoscale</i> , 2019, 11, 7239-7246.	5.6	28
113	The novel photo-Fenton-like few-layer $\text{MoS}_2/\text{FeVO}_4$ composite for improved degradation activity under visible light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 623, 126721.	4.7	27
114	Edge-Site-Rich Ordered Macroporous $\text{BiOCl}$ Triggers $\text{C}_2\text{O}$ Activation for Efficient $\text{CO}_2$ Photoreduction. <i>Small</i> , 2022, 18, e2105228.	10.0	27
115	Exploitation of a photoelectrochemical sensing platform for catechol quantitative determination using $\text{BiPO}_4$ nanocrystals/ $\text{BiOI}$ heterojunction. <i>Analytica Chimica Acta</i> , 2018, 1042, 11-19.	5.4	25
116	Recent Progress on Zeolitic Imidazolate Frameworks and Their Derivatives in Alkali Metal-Chalcogen Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2103152.	19.5	25
117	New strategy towards the assembly of hierarchical heterostructures of $\text{SnO}_2/\text{ZnO}$ for $\text{NO}_2$ detection at a ppb level. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2801-2809.	6.0	24
118	Photoelectrochemical sensing of bisphenol a based on graphitic carbon nitride/bismuth oxyiodine composites. <i>RSC Advances</i> , 2017, 7, 7929-7935.	3.6	23
119	Construction of solid-liquid interfacial Fenton-like reaction under visible light irradiation over etched $\text{CoFe}_2\text{O}_4/\text{BiOBr}$ photocatalysts. <i>Catalysis Science and Technology</i> , 2018, 8, 551-561.	4.1	22
120	Oxygen vacancies mediated $\text{Bi}_2\text{O}_7\text{Cl}_2$ ultrathin nanobelts: Boosting molecular oxygen activation for efficient organic pollutants degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 23-32.	9.4	22
121	$\text{Ni}_x\text{Co}_{3-x}\text{O}_4$ Nanoneedle Arrays Grown on Ni Foam as an Efficient Bifunctional Electrocatalyst for Full Water Splitting. <i>Chemistry - an Asian Journal</i> , 2019, 14, 480-485.	3.3	21
122	Tuning the Active Sites of Atomically Thin Defective $\text{Bi}_{12}\text{O}_{17}\text{Cl}_2$ via Incorporation of Subnanometer Clusters. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9216-9223.	8.0	21
123	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> , 2011, 2011, 1361-1365.	2.0	20
124	Preparation of 1D $\text{CuO}$ Nanorods by Means of a Metal Ion Containing Ionic Liquid and Their Supercapacitance. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2315-2323.	2.0	20
125	Construction of $\text{NH}_2\text{-MIL-125(Ti)}$ nanoplates modified $\text{Bi}_2\text{WO}_6$ microspheres with boosted visible-light photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2020, 46, 3311-3326.	2.7	20
126	Organic-inorganic $\text{TCCP/BiOCl}$ hybrids with accelerated interfacial charge separation for boosted photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126367.	4.7	20



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127	One-pot synthesis of ordered mesoporous silica encapsulated polyoxometalate-based ionic liquids induced efficient desulfurization of organosulfur in fuel. <i>RSC Advances</i> , 2015, 5, 76048-76056.	3.6	19
128	Synthesis of Multiwalled Carbon Nanotube Modified BiOCl Microspheres with Enhanced Visible-Light Response Photoactivity. <i>Clean - Soil, Air, Water</i> , 2016, 44, 781-787.	1.1	18
129	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> , 2019, 582, 123804.	4.7	18
130	Synergy between plasmonic and sites on gold nanoparticle-modified bismuth-rich bismuth oxybromide nanotubes for the efficient photocatalytic C-C coupling synthesis of ethane. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 649-658.	9.4	18
131	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> , 2019, 382, 111921.	3.9	17
132	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> , 2015, 39, 5540-5547.	2.8	15
133	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> , 2015, 32, 117-124.	4.0	15
134	Hexacyanoferrate-based ionic liquids as Fenton-like catalysts for deep oxidative desulfurization of fuels. <i>Applied Organometallic Chemistry</i> , 2016, 30, 753-758.	3.5	15
135	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> , 2021, 609, 125655.	4.7	14
136	Reactable ionic liquid-assisted solvothermal synthesis of flower-like bismuth oxybromide microspheres with highly visible-light photocatalytic performances. <i>Micro and Nano Letters</i> , 2013, 8, 450-454.	1.3	13
137	In-situ Synthesis of MoS <sub>2</sub> /BiOBr Material via Mechanical Ball Milling for Boosted Photocatalytic Degradation Pollutants Performance. <i>ChemistrySelect</i> , 2021, 6, 928-936.	1.5	11
138	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> , 2022, 634, 127894.	4.7	10
139	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , 2015, 5, 99927-99934.	3.6	9
140	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> , 2019, 4, 4131-4139.	1.5	9
141	Improved Solar Energy Photoactivity over Defective BiOBr Ultrathin Nanosheets towards Pollutant Removal and Oxygen Evolution. <i>ChemNanoMat</i> , 2019, 5, 215-223.	2.8	9
142	Reusable Graphitic Carbon Nitride Nanosheet-Based Aerogels as Sorbents for Oils and Organic Solvents. <i>ACS Applied Nano Materials</i> , 2020, 3, 8176-8181.	5.0	9
143	A three-dimensional porous MoS <sub>2</sub> -PVP aerogel as a highly efficient and recyclable sorbent for oils and organic solvents. <i>Materials Advances</i> , 2020, 1, 760-766.	5.4	9
144	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> , 2021, 541, 148477.	6.1	9

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145	One-step Mechanical Synthesis of Oxygen-defect Modified Ultrathin Bi <sub>2</sub> O <sub>7</sub> Br <sub>2</sub> Nanosheets for Boosting Photocatalytic Activity. ChemistrySelect, 2020, 5, 11177-11184.	1.5	9
146	Electrochemical polymerization of helical poly(2-methoxyaniline) doped with $\beta$ -cyclodextrin sulfate: pH driving the opposition of induced circular dichroism. Polymer Bulletin, 2008, 61, 705-711.	3.3	7
147	Metal ion-containing ionic liquid assisted synthesis and enhanced photoelectrochemical performance of g-C <sub>3</sub> N <sub>4</sub> /ZnO composites. Materials Technology, 2018, 33, 185-192.	3.0	7
148	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. Research on Chemical Intermediates, 2021, 47, 1601-1613.	2.7	7
149	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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128591.	4.7	7
150	Fabrication of MoS <sub>2</sub> /FeOCl composites as heterogeneous photo-fenton catalysts for the efficient degradation of water pollutants under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129357.	4.7	7
151	One-pot ionic liquid-assisted strategy for GO/BiOI hybrids with superior visible-driven photocatalysis and mechanism research. Materials Technology, 2017, 32, 131-139.	3.0	6
152	Double regulation of bismuth and halogen source for the preparation of bismuth oxybromide nanosquares with enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2017, 492, 25-32.	9.4	6
153	Fabrication of functional dual-mesoporous silicas by using peroxy-tungstate ionic liquid and their applications in oxidative desulfurization. Journal of Porous Materials, 2015, 22, 1227-1233.	2.6	5
154	SBA-15 supported molybdenum oxide towards efficient catalytic oxidative desulfurization: effect of calcination temperature of catalysts. Journal of the Chinese Advanced Materials Society, 2018, 6, 44-54.	0.7	5
155	Controlled synthesis of novel PbBiO <sub>2</sub> I microsphere structure towards photocatalytic degradation of bisphenol A. Research on Chemical Intermediates, 2018, 44, 5879-5891.	2.7	5
156	Size-Dependent Activity of Iron-Nickel Oxynitride towards Electrocatalytic Oxygen Evolution. ChemNanoMat, 2019, 5, 883-887.	2.8	5
157	Controllable synthesis of FeWO <sub>4</sub> /BiOBr in reactive ionic liquid with effective charge separation towards photocatalytic pollutant removal. Research on Chemical Intermediates, 2019, 45, 437-451.	2.7	5
158	Ionic Liquid-Assisted Synthesis of Ag <sub>3</sub> PO <sub>4</sub> Spheres for Boosting Photodegradation Activity under Visible Light. Catalysts, 2021, 11, 788.	3.5	5
159	Dual modulation steering electron reducibility and transfer of bismuth molybdate nanoparticle to boost carbon dioxide photoreduction to carbon monoxide. Journal of Colloid and Interface Science, 2022, 610, 518-526.	9.4	5
160	Graphene-like BN/BiOBr composite: synthesis via a reactable ionic liquid and enhanced visible light photocatalytic performance. Materials Technology, 2016, 31, 463-470.	3.0	4
161	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). Advanced Energy Materials, 2020, 10, 2070049.	19.5	4
162	Boosting CO <sub>2</sub> Capture and Its Photochemical Conversion on Bismuth Surface. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000671.	1.8	4

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163	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> , 2022, 48, 235-250.	2.7	4
164	Nanocomposites of urethane and montmorillonite clay in emulsion: <i>in situ</i> preparation and characterization. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1964-1969.	2.6	3
165	Controlled growth of BaMoO <sub>4</sub> hierarchical superstructures in functionalized ionic liquids. <i>Pure and Applied Chemistry</i> , 2009, 81, 2355-2367.	1.9	2
166	Graphene-Analogue Boron Nitride Modified Bismuth Oxyiodide with Increased Visible-Light Photocatalytic Performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800146.	1.8	2