

# Yanjuan Sun

## List of Publications by Citations

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289  
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299  
ext. papers

27,986  
ext. citations

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L-index

#	Paper	IF	Citations
289	Graphitic carbon nitride based nanocomposites: a review. <i>Nanoscale</i> , <b>2015</b> , 7, 15-37	7.7	1212
288	In situ construction of g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> metal-free heterojunction for enhanced visible-light photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11392-401	9.5	872
287	Efficient synthesis of polymeric g-C <sub>3</sub> N <sub>4</sub> layered materials as novel efficient visible light driven photocatalysts. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15171		825
286	Bridging the g-C <sub>3</sub> N <sub>4</sub> Interlayers for Enhanced Photocatalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2462-2472	13.1	624
285	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO <sub>2</sub> -Doped Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> . <i>ACS Catalysis</i> , <b>2015</b> , 5, 4094-4103	13.1	596
284	In situ assembly of BiOI@Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> Cl <sub>2</sub> p-n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 199, 75-86	21.8	494
283	An Advanced Semimetal-Organic Bi Spheres-g-C <sub>3</sub> N <sub>4</sub> Nanohybrid with SPR-Enhanced Visible-Light Photocatalytic Performance for NO Purification. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12432-40	10.3	393
282	Noble Metal-Like Behavior of Plasmonic Bi Particles as a Cocatalyst Deposited on (BiO) <sub>2</sub> CO <sub>3</sub> Microspheres for Efficient Visible Light Photocatalysis. <i>ACS Catalysis</i> , <b>2014</b> , 4, 4341-4350	13.1	391
281	Immobilization of polymeric g-C <sub>3</sub> N <sub>4</sub> on structured ceramic foam for efficient visible light photocatalytic air purification with real indoor illumination. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10345-53	10.3	355
280	Three-in-One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO Photoreduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3880-3884	16.4	329
279	Enhancement of the Visible Light Photocatalytic Activity of C-Doped TiO <sub>2</sub> Nanomaterials Prepared by a Green Synthetic Approach. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13285-13292	3.8	321
278	Bi <sub>2</sub> O <sub>2</sub> (OH)(NO <sub>3</sub> ) as a desirable [Bi <sub>2</sub> O <sub>2</sub> ] <sup>2+</sup> layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24547-24556	13	310
277	Room temperature synthesis and highly enhanced visible light photocatalytic activity of porous BiOI/BiOCl composites nanoplates microflowers. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 219-220, 26-34	12.8	296
276	Water-assisted production of honeycomb-like g-C <sub>3</sub> N <sub>4</sub> with ultralong carrier lifetime and outstanding photocatalytic activity. <i>Nanoscale</i> , <b>2015</b> , 7, 2471-9	7.7	288
275	Enhanced visible light photocatalytic activity and oxidation ability of porous graphene-like g-C <sub>3</sub> N <sub>4</sub> nanosheets via thermal exfoliation. <i>Applied Surface Science</i> , <b>2015</b> , 358, 393-403	6.7	280
274	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 401, 70-9	9.3	260
273	Template-free precursor-surface-etching route to porous, thin g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhancing photocatalytic reduction and oxidation activity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17452-17463	13	260

272	In situ co-pyrolysis fabrication of CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nB type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17120-17129	13	256
271	A semimetal bismuth element as a direct plasmonic photocatalyst. <i>Chemical Communications</i> , <b>2014</b> , 50, 10386-9	5.8	241
270	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 465-474	21.8	241
269	Hybridization of rutile TiO <sub>2</sub> (rTiO <sub>2</sub> ) with g-C <sub>3</sub> N <sub>4</sub> quantum dots (CN QDs): An efficient visible-light-driven Z-scheme hybridized photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 202, 611-619	21.8	238
268	One-Step Green Synthetic Approach for Mesoporous C-Doped Titanium Dioxide with Efficient Visible Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16717-16723	3.8	238
267	Characterization and photocatalytic activities of C, N and S co-doped TiO(2) with 3D nanostructure prepared by the nano-confinement effect. <i>Nanotechnology</i> , <b>2008</b> , 19, 365607	3.4	237
266	Rational design on 3D hierarchical bismuth oxyiodides via in situ self-template phase transformation and phase-junction construction for optimizing photocatalysis against diverse contaminants. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 879-888	21.8	230
265	Single-unit-cell layer established Bi <sub>2</sub> WO <sub>6</sub> 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 526-537	21.8	217
264	Facile transformation of low cost thiourea into nitrogen-rich graphitic carbon nitride nanocatalyst with high visible light photocatalytic performance. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 1332	5.5	205
263	Novel in situ N-doped (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical microspheres self-assembled by nanosheets as efficient and durable visible light driven photocatalyst. <i>Langmuir</i> , <b>2012</b> , 28, 766-73	4	201
262	Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. <i>Journal of Catalysis</i> , <b>2018</b> , 357, 100-107	7.3	187
261	Visible-light-induced charge transfer pathway and photocatalysis mechanism on Bi semimetal@defective BiOBr hierarchical microspheres. <i>Journal of Catalysis</i> , <b>2018</b> , 357, 41-50	7.3	187
260	Highly enhanced visible light photocatalysis and in situ FT-IR studies on Bi metal@defective BiOCl hierarchical microspheres. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 218-227	21.8	178
259	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C <sub>3</sub> N <sub>4</sub> . <i>ACS Catalysis</i> , <b>2018</b> , 8, 8376-8385	13.1	174
258	Bi Cocatalyst/Bi <sub>2</sub> MoO <sub>6</sub> Microspheres Nanohybrid with SPR-Promoted Visible-Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11889-11898	3.8	169
257	Nitrogen defect structure and NO <sup>+</sup> intermediate promoted photocatalytic NO removal on H <sub>2</sub> treated g-C <sub>3</sub> N <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122282	14.7	161
256	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. <i>Nano Energy</i> , <b>2018</b> , 50, 383-392	17.1	158
255	Efficient C <sub>3</sub> N <sub>4</sub> /graphene oxide macroscopic aerogel visible-light photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7823-7829	13	153

254	Visible-Light Photocatalytic Removal of NO in Air over BiOX (X = Cl, Br, I) Single-Crystal Nanoplates Prepared at Room Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 6740-6746	3.9	150
253	Facets and defects cooperatively promote visible light plasmonic photocatalysis with Bi nanowires@BiOCl nanosheets. <i>Journal of Catalysis</i> , <b>2016</b> , 344, 401-410	7.3	149
252	Role of graphene on the band structure and interfacial interaction of Bi <sub>2</sub> WO <sub>6</sub> /graphene composites with enhanced photocatalytic oxidation of NO. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16623-16631	13	147
251	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C <sub>3</sub> N <sub>4</sub> : Enhanced photocatalysis and reaction mechanism. <i>Journal of Catalysis</i> , <b>2017</b> , 352, 351-360	7.3	147
250	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10682-10690	10.3	146
249	Synthesis of Bi <sub>2</sub> WO <sub>6</sub> with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 129-138	14.7	145
248	Rose-like monodisperse bismuth subcarbonate hierarchical hollow microspheres: one-pot template-free fabrication and excellent visible light photocatalytic activity and photochemical stability for NO removal in indoor air. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 195, 346-54	12.8	142
247	Directional electron delivery via a vertical channel between g-C <sub>3</sub> N <sub>4</sub> layers promotes photocatalytic efficiency. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9358-9364	13	140
246	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7599-7605	10.3	138
245	Efficient and Durable Visible Light Photocatalytic Performance of Porous Carbon Nitride Nanosheets for Air Purification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 2318-2330	3.9	136
244	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 532-540	21.8	135
243	Template-free fabrication and growth mechanism of uniform (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical hollow microspheres with outstanding photocatalytic activities under both UV and visible light irradiation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12428		133
242	Activation of amorphous Bi <sub>2</sub> WO <sub>6</sub> with synchronous Bi metal and Bi <sub>2</sub> O <sub>3</sub> coupling: Photocatalysis mechanism and reaction pathway. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 340-347	21.8	130
241	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 269-277	21.8	127
240	Unraveling the Mechanisms of Visible Light Photocatalytic NO Purification on Earth-Abundant Insulator-Based Core-Shell Heterojunctions. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1479-1487	10.3	124
239	Controlling interfacial contact and exposed facets for enhancing photocatalysis via 2D-2D heterostructures. <i>Chemical Communications</i> , <b>2015</b> , 51, 8249-52	5.8	123
238	Rare-Earth Single-Atom La-N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO Reduction. <i>ACS Nano</i> , <b>2020</b> , 14, 15841-15852	16.7	123
237	Visible light induced electron transfer process over nitrogen doped TiO <sub>2</sub> nanocrystals prepared by oxidation of titanium nitride. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 157, 57-63	12.8	123

236	Band structure and visible light photocatalytic activity of multi-type nitrogen doped TiO <sub>2</sub> nanoparticles prepared by thermal decomposition. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 162, 763-70	12.8	122
235	Synergistic integration of Bi metal and phosphate defects on hexagonal and monoclinic BiPO <sub>4</sub> : Enhanced photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 243, 313-321	21.8	121
234	Fabrication, modification and application of (BiO) <sub>2</sub> CO <sub>3</sub> -based photocatalysts: A review. <i>Applied Surface Science</i> , <b>2016</b> , 365, 314-335	6.7	119
233	Fe-ions modified mesoporous Bi <sub>2</sub> WO <sub>6</sub> nanosheets with high visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 369, 373-80	9.3	114
232	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 187-195	21.8	113
231	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3366-3374	13	110
230	Growth of BiOBr nanosheets on C <sub>3</sub> N <sub>4</sub> nanosheets to construct two-dimensional nanojunctions with enhanced photoreactivity for NO removal. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 418, 317-23	9.3	110
229	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 938-946	21.8	110
228	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11584-11612	13	109
227	Facile synthesis of surface N-doped Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> : Origin of visible light photocatalytic activity and in situ DRIFTS studies. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 307, 163-72	12.8	109
226	Readily achieving concentration-tunable oxygen vacancies in Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> : Triple-functional role for efficient visible-light photocatalytic redox performance. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 441-450	21.8	108
225	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> , <b>2016</b> , 199, 87-95	21.8	107
224	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi <sub>2</sub> O <sub>2</sub> SiO <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 187-195	21.8	105
223	Activation of amorphous bismuth oxide via plasmonic Bi metal for efficient visible-light photocatalysis. <i>Journal of Catalysis</i> , <b>2017</b> , 352, 102-112	7.3	103
222	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi <sub>2</sub> GeO <sub>5</sub> with oxygen vacancies: A combined experimental and theoretical investigation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 1366-1375	14.7	103
221	Bi metal prevents the deactivation of oxygen vacancies in Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> for stable and efficient photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118545	21.8	102
220	KCl-mediated dual electronic channels in layered g-CN for enhanced visible light photocatalytic NO removal. <i>Nanoscale</i> , <b>2018</b> , 10, 8066-8074	7.7	101
219	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO-to-CO Photoreduction. <i>ACS Nano</i> , <b>2020</b> , 14, 13103-13114	16.7	101

218	Synchronously Achieving Plasmonic Bi Metal Deposition and I(-) Doping by Utilizing BiOIO <sub>3</sub> as the Self-Sacrificing Template for High-Performance Multifunctional Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27925-33	9.5	99
217	The activation of reactants and intermediates promotes the selective photocatalytic NO conversion on electron-localized Sr-intercalated g-C <sub>3</sub> N <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 69-76	21.8	98
216	Defective Bi <sub>4</sub> MoO <sub>9</sub> /Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 619-627	21.8	97
215	Band structure engineering and efficient charge transport in oxygen substituted g-C <sub>3</sub> N <sub>4</sub> for superior photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 230, 115-124	21.8	94
214	In situ decoration of plasmonic Ag nanocrystals on the surface of (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical microspheres for enhanced visible light photocatalysis. <i>Dalton Transactions</i> , <b>2014</b> , 43, 9468-80	4.3	92
213	Noble metal-free Bi nanoparticles supported on TiO <sub>2</sub> with plasmon-enhanced visible light photocatalytic air purification. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1306-1317	7.1	91
212	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. <i>Science Bulletin</i> , <b>2019</b> , 64, 669-678	10.6	90
211	In situ synthesis of a C-doped (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical self-assembly effectively promoting visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6118-6127	13	90
210	Multifunctional g-C <sub>3</sub> N <sub>4</sub> /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 235, 17-25	21.8	89
209	New insights into how Pd nanoparticles influence the photocatalytic oxidation and reduction ability of g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 6448-6458	5.5	89
208	Mechanism of visible light photocatalytic NO(x) oxidation with plasmonic Bi cocatalyst-enhanced (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical microspheres. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 10383-90	3.6	88
207	Highly Efficient Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Single-Crystal Lamellas with Dominantly Exposed {001} Facets. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 534-537	3.5	88
206	2D g-C <sub>3</sub> N <sub>4</sub> for advancement of photo-generated carrier dynamics: Status and challenges. <i>Materials Today</i> , <b>2020</b> , 41, 270-303	21.8	87
205	Simultaneously promoting charge separation and photoabsorption of BiOX (X = Cl, Br) for efficient visible-light photocatalysis and photosensitization by compositing low-cost biochar. <i>Applied Surface Science</i> , <b>2016</b> , 386, 285-295	6.7	87
204	Improving g-C <sub>3</sub> N <sub>4</sub> photocatalysis for NO <sub>x</sub> removal by Ag nanoparticles decoration. <i>Applied Surface Science</i> , <b>2015</b> , 358, 356-362	6.7	85
203	Facile synthesis of organic-inorganic layered nanojunctions of g-C <sub>3</sub> N <sub>4</sub> /(BiO) <sub>2</sub> CO <sub>3</sub> as efficient visible light photocatalyst. <i>Dalton Transactions</i> , <b>2014</b> , 43, 12026-36	4.3	82
202	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> , <b>2015</b> , 39, 4737-4744	3.6	81
201	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C <sub>3</sub> N <sub>4</sub> for Boosting Photooxidation and Photoreduction Ability. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 10381-10389	3.8	81



200	From semiconductors to semimetals: bismuth as a photocatalyst for NO oxidation in air. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11065-11072	13	79
199	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 19-30	21.8	79
198	In situ FT-IR investigation on the reaction mechanism of visible light photocatalytic NO oxidation with defective g-C <sub>3</sub> N <sub>4</sub> . <i>Science Bulletin</i> , <b>2018</b> , 63, 117-125	10.6	79
197	Enhanced visible light photocatalytic activity of novel Pt/C-doped TiO <sub>2</sub> /PtCl <sub>4</sub> three-component nanojunction system for degradation of toluene in air. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 187, 509-16	12.8	76
196	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118130	21.8	75
195	Bi metal sphere/graphene oxide nanohybrids with enhanced direct plasmonic photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 214, 148-157	21.8	74
194	Enhancing the photocatalytic activity of bulk g-C <sub>3</sub> N <sub>4</sub> by introducing mesoporous structure and hybridizing with graphene. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 436, 29-36	9.3	74
193	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> mediated hydrothermal synthesis of N-doped (BiO) <sub>2</sub> CO <sub>3</sub> hollow nanoplates microspheres as high-performance and durable visible light photocatalyst for air cleaning. <i>Chemical Engineering Journal</i> , <b>2013</b> , 214, 198-207	14.7	74
192	Template synthesis of carbon self-doped g-C <sub>3</sub> N <sub>4</sub> with enhanced visible to near-infrared absorption and photocatalytic performance. <i>RSC Advances</i> , <b>2015</b> , 5, 39549-39556	3.7	73
191	One-pot template-free synthesis, growth mechanism and enhanced photocatalytic activity of monodisperse (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical hollow microspheres self-assembled with single-crystalline nanosheets. <i>CrystEngComm</i> , <b>2012</b> , 14, 3534	3.3	72
190	Marked enhancement of photocatalytic activity and photochemical stability of N-doped TiO <sub>2</sub> nanocrystals by Fe <sup>3+</sup> /Fe <sup>2+</sup> surface modification. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 200-8	8.3	71
189	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 262, 118251	21.8	70
188	Synergistic effects of crystal structure and oxygen vacancy on Bi <sub>2</sub> O <sub>3</sub> polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. <i>Science Bulletin</i> , <b>2020</b> , 65, 467-476	10.6	67
187	Bismuth spheres assembled on graphene oxide: Directional charge transfer enhances plasmonic photocatalysis and in situ DRIFTS studies. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 482-489	21.8	67
186	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2018</b> , 348, 26-34	14.7	65
185	New insights into how RGO influences the photocatalytic performance of BiOIO <sub>3</sub> /RGO nanocomposites under visible and UV irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 447, 16-24	9.3	64
184	Cu supported on polymeric carbon nitride for selective CO <sub>2</sub> reduction into CH <sub>4</sub> : a combined kinetics and thermodynamics investigation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17014-17021	13	63
183	Efficient visible light photocatalytic oxidation of NO in air with band-gap tailored (BiO) <sub>2</sub> CO <sub>3</sub> BiOI solid solutions. <i>Chemical Engineering Journal</i> , <b>2014</b> , 255, 650-658	14.7	63

182	Synergistic integration of thermocatalysis and photocatalysis on black defective (BiO) <sub>2</sub> CO <sub>3</sub> microspheres. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18466-18474	13	62
181	Surface oxygen-vacancy induced photocatalytic activity of La(OH) <sub>3</sub> nanorods prepared by a fast and scalable method. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 16058-66	3.6	62
180	Controlled synthesis, growth mechanism and highly efficient solar photocatalysis of nitrogen-doped bismuth subcarbonate hierarchical nanosheets architectures. <i>Dalton Transactions</i> , <b>2012</b> , 41, 8270-84	4.3	62
179	Achieving tunable photocatalytic activity enhancement by elaborately engineering composition-adjustable polynary heterojunctions photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 194, 62-73	21.8	61
178	Plasmonic Bi metal as cocatalyst and photocatalyst: The case of Bi/(BiO)CO and Bi particles. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 485, 1-10	9.3	60
177	Theoretical design and experimental investigation on highly selective Pd particles decorated CN for safe photocatalytic NO purification. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122357	12.8	59
176	Three-dimensional MoS <sub>2</sub> /reduced graphene oxide aerogel as a macroscopic visible-light photocatalyst. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 313-320	11.3	58
175	Single Precursor Mediated-Synthesis of Bi Semimetal Deposited N-Doped (BiO) <sub>2</sub> CO <sub>3</sub> Superstructures for Highly Promoted Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2969-2979	8.3	58
174	2D BiOCl/Bi <sub>12</sub> O <sub>17</sub> Cl <sub>2</sub> nanojunction: Enhanced visible light photocatalytic NO removal and in situ DRIFTS investigation. <i>Applied Surface Science</i> , <b>2018</b> , 430, 571-577	6.7	57
173	Mass-Controlled Direct Synthesis of Graphene-like Carbon Nitride Nanosheets with Exceptional High Visible Light Activity. Less is Better. <i>Scientific Reports</i> , <b>2015</b> , 5, 14643	4.9	57
172	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3010-3017	8.3	57
171	The activation of oxygen through oxygen vacancies in BiOCl/PPy to inhibit toxic intermediates and enhance the activity of photocatalytic nitric oxide removal. <i>Nanoscale</i> , <b>2019</b> , 11, 6360-6367	7.7	56
170	Synergistic photo-thermal catalytic NO purification of MnO <sub>x</sub> /g-C <sub>3</sub> N <sub>4</sub> : Enhanced performance and reaction mechanism. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 619-629	11.3	56
169	Photocatalytic NO oxidation on N-doped TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction: Enhanced efficiency, mechanism and reaction pathway. <i>Applied Surface Science</i> , <b>2018</b> , 458, 77-85	6.7	56
168	Effects of Morphology and Crystallinity on the Photocatalytic Activity of (BiO) <sub>2</sub> CO <sub>3</sub> Nano/microstructures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 15002-15011	3.9	55
167	Solvent-assisted synthesis of porous g-C <sub>3</sub> N <sub>4</sub> with efficient visible-light photocatalytic performance for NO removal. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 372-378	11.3	54
166	Enhancement of the visible light photocatalytic performance of C-doped TiO <sub>2</sub> by loading with V <sub>2</sub> O <sub>5</sub> . <i>Catalysis Communications</i> , <b>2009</b> , 11, 82-86	3.2	53
165	The pivotal effects of oxygen vacancy on Bi <sub>2</sub> MoO <sub>6</sub> : Promoted visible light photocatalytic activity and reaction mechanism. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 647-655	11.3	52



164	Oxygen vacancy engineering of self-doped SnO <sub>2</sub> nanocrystals for ultrasensitive NO <sub>2</sub> detection. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 487-494	7.1	52
163	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 253, 293-299	21.8	51
162	Highly enhanced visible-light photocatalytic NO <sub>x</sub> purification and conversion pathway on self-structurally modified g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Science Bulletin</i> , <b>2018</b> , 63, 609-620	10.6	51
161	SnO <sub>2</sub> quantum dots anchored on g-C <sub>3</sub> N <sub>4</sub> for enhanced visible-light photocatalytic removal of NO and toxic NO <sub>2</sub> inhibition. <i>Applied Surface Science</i> , <b>2019</b> , 496, 143630	6.7	51
160	Hydrothermal formation of N-doped (BiO) <sub>2</sub> CO <sub>3</sub> honeycomb-like microspheres photocatalysts with bismuth citrate and dicyandiamide as precursors. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 408, 33-42	9.3	51
159	An anion-exchange strategy for 3D hierarchical (BiO) <sub>2</sub> CO <sub>3</sub> /amorphous Bi <sub>2</sub> S <sub>3</sub> heterostructures with increased solar absorption and enhanced visible light photocatalysis. <i>RSC Advances</i> , <b>2015</b> , 5, 11714-11723	3.7	51
158	Bi quantum dots implanted 2D C-doped BiOCl nanosheets: Enhanced visible light photocatalysis efficiency and reaction pathway. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1430-1438	11.3	50
157	Interlayer-I-doped BiOIO <sub>3</sub> nanoplates with an optimized electronic structure for efficient visible light photocatalysis. <i>Chemical Communications</i> , <b>2016</b> , 52, 8243-6	5.8	50
156	Efficient visible light photocatalytic oxidation of NO with hierarchical nanostructured 3D flower-like BiOCl <sub>x</sub> Br <sub>1-x</sub> solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 671, 318-327	5.7	50
155	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808084	15.6	50
154	Iodide surface decoration: a facile and efficacious approach to modulating the band energy level of semiconductors for high-performance visible-light photocatalysis. <i>Chemical Communications</i> , <b>2016</b> , 52, 354-7	5.8	49
153	N-Doped Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /Graphene Quantum Dot Composite Photocatalyst: Enhanced Visible-Light Photocatalytic NO Oxidation and In Situ DRIFTS Studies. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12168-12179	3.8	49
152	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7230-7239	13.1	49
151	Pivotal roles of artificial oxygen vacancies in enhancing photocatalytic activity and selectivity on Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanosheets. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 620-630	11.3	48
150	Tailoring Active Sites via Synergy between Graphitic and Pyridinic N for Enhanced Catalytic Efficiency of a Carbocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19861-19869	9.5	47
149	Heterostructured BiOI@La(OH) <sub>3</sub> nanorods with enhanced visible light photocatalytic NO removal. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 217-226	11.3	46
148	Synergistic integration of metallic Bi and defects on BiOI: Enhanced photocatalytic NO removal and conversion pathway. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 826-836	11.3	46
147	A Bi/BiOI/(BiO) <sub>2</sub> CO <sub>3</sub> heterostructure for enhanced photocatalytic NO removal under visible light. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 362-370	11.3	46

146	Ternary Ag/AgCl/BiOI/O <sub>3</sub> composites for enhanced visible-light-driven photocatalysis. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 2155-2163	11.3	46
145	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118977	21.8	46
144	Efficient and stable photocatalytic NO removal on C self-doped g-C <sub>3</sub> N <sub>4</sub> : electronic structure and reaction mechanism. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3387-3394	5.5	44
143	Facile synthesis of Bi <sub>12</sub> O <sub>17</sub> Br <sub>2</sub> and Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> nanosheets: In situ DRIFTS investigation of photocatalytic NO oxidation conversion pathway. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 2030-2038	11.3	44
142	A new strategy for utilization of NIR from solar energy: Promotion effect generated from photothermal effect of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> for photocatalytic oxidation of NO. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 204, 584-592	21.8	43
141	Efficient visible light photocatalytic NO <sub>x</sub> removal with cationic Ag clusters-grafted (BiO)CO hierarchical superstructures. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 322, 223-232	12.8	42
140	Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 944-951	14.7	42
139	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C <sub>3</sub> N <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122184	14.7	42
138	Synergistic effect of manganese dioxide and diatomite for fast decolorization and high removal capacity of methyl orange. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 484, 1-9	9.3	41
137	Growth mechanism and photocatalytic activity of self-organized N-doped (BiO)CO hierarchical nanosheet microspheres from bismuth citrate and urea. <i>Dalton Transactions</i> , <b>2014</b> , 43, 6631-42	4.3	41
136	Pt quantum dots deposited on N-doped (BiO) <sub>2</sub> CO <sub>3</sub> : enhanced visible light photocatalytic NO removal and reaction pathway. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1324-1332	5.5	40
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134	Three-in-One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO <sub>2</sub> Photoreduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3920-3924	3.6	40
133	Mesoporous Ni-Doped Bi <sub>2</sub> O <sub>3</sub> Microspheres for Enhanced Solar-Driven Photocatalysis: A Combined Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 9394-9401	3.8	39
132	Enhanced plasmonic photocatalysis by SiO <sub>2</sub> @Bi microspheres with hot-electron transportation channels via Bi <sub>2</sub> S <sub>3</sub> linkages. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1174-1183	11.3	39
131	TiC MXene modified g-CN with enhanced visible-light photocatalytic performance for NO purification. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 575, 443-451	9.3	39
130	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 779-789	11.3	38
129	One-step preparation of a novel SrCO <sub>3</sub> /g-CN nano-composite and its application in selective adsorption of crystal violet. <i>RSC Advances</i> , <b>2018</b> , 8, 6315-6325	3.7	38

128	Exploring the photocatalysis mechanism on insulators. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 450-458	21.8	38
127	BaWO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure with excellent bifunctional photocatalytic performance. <i>Chemical Engineering Journal</i> , <b>2020</b> , 385, 123833	14.7	38
126	Dual redox couples Ag/Ag <sup>+</sup> and W(IV)/W(V) self-sacrificed transformation for realizing multiplex hierarchical architectures with universally powerful photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 620-632	21.8	37
125	Ag/AgCl nanoparticles assembled on BiOCl/Bi <sub>2</sub> O <sub>7</sub> nanosheets: Enhanced plasmonic visible light photocatalysis and in situ DRIFTS investigation. <i>Applied Surface Science</i> , <b>2018</b> , 455, 236-243	6.7	37
124	Facet-dependent photocatalytic NO conversion pathways predetermined by adsorption activation patterns. <i>Nanoscale</i> , <b>2019</b> , 11, 2366-2373	7.7	36
123	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO for Sustainable Visible Light Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47984-47991	9.5	36
122	Facile Synthesis of Flower-like (BiO) <sub>2</sub> CO <sub>3</sub> @MnO <sub>2</sub> and Bi <sub>2</sub> O <sub>3</sub> @MnO <sub>2</sub> Nanocomposites for Supercapacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 168, 97-103	6.7	35
121	Mechanistic understanding of ternary Ag/AgCl@La(OH) <sub>3</sub> nanorods as novel visible light plasmonic photocatalysts. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 5003-5010	5.5	35
120	Synthesis of BiOBr/graphene and BiOBr/graphene oxide nanocomposites with enhanced visible light photocatalytic performance. <i>Ceramics International</i> , <b>2014</b> , 40, 9003-9008	5.1	35
119	Bi-based photocatalysts for light-driven environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. <i>EcoMat</i> , <b>2020</b> , 2, e12047	9.4	35
118	Nature-inspired CaCO <sub>3</sub> loading TiO <sub>2</sub> composites for efficient and durable photocatalytic mineralization of gaseous toluene. <i>Science Bulletin</i> , <b>2020</b> , 65, 1626-1634	10.6	34
117	Fe(III) cluster-grafted (BiO) <sub>2</sub> CO <sub>3</sub> superstructures: in situ DRIFTS investigation on IFCT-enhanced visible light photocatalytic NO oxidation. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 604-612	7.1	33
116	Carbonate-intercalated defective bismuth tungstate for efficiently photocatalytic NO removal and promotion mechanism study. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 206-213	21.8	33
115	Controlled deposition of Au on (BiO) <sub>2</sub> CO <sub>3</sub> microspheres: the size and content of Au nanoparticles matter. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8805-11	4.3	33
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112	Mechanisms of Interfacial Charge Transfer and Photocatalytic NO Oxidation on BiOBr/SnO p-n Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43741-43749	9.5	33
111	A self-sacrifice template route to iodine modified BiOIO <sub>3</sub> : band gap engineering and highly boosted visible-light active photoreactivity. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7851-9	3.6	32

110	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 875-880	8.1	31
109	Simultaneous introduction of oxygen vacancies and Bi metal onto the {001} facet of BiOCl woven nanobelts for synergistically enhanced photocatalysis. <i>Nanoscale</i> , <b>2018</b> , 10, 16928-16934	7.7	31
108	Enhanced Visible Light Photocatalytic Activity of V <sub>2</sub> O <sub>5</sub> Cluster Modified N-Doped TiO <sub>2</sub> for Degradation of Toluene in Air. <i>International Journal of Photoenergy</i> , <b>2012</b> , 2012, 1-10	2.1	31
107	Facile synthesis of CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposites with significantly improved visible-light photocatalytic activity for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 16154-16163	6.7	29
106	Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8683-8716	13.1	29
105	Synthesis of mesoporous polymeric carbon nitride exhibiting enhanced and durable visible light photocatalytic performance. <i>Science Bulletin</i> , <b>2014</b> , 59, 688-698		27
104	Interfacial activation of reactants and intermediates on CaSO <sub>4</sub> insulator-based heterostructure for efficient photocatalytic NO removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124609	14.7	26
103	Hydrothermal fabrication of N-doped (BiO) <sub>2</sub> CO <sub>3</sub> : Structural and morphological influence on the visible light photocatalytic activity. <i>Applied Surface Science</i> , <b>2014</b> , 319, 256-264	6.7	26
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101	La-doping induced localized excess electrons on (BiO)CO for efficient photocatalytic NO removal and toxic intermediates suppression. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123174	12.8	25
100	Ammonia induced formation of N-doped (BiO) <sub>2</sub> CO <sub>3</sub> hierarchical microspheres: the effect of hydrothermal temperature on the morphology and photocatalytic activity. <i>CrystEngComm</i> , <b>2013</b> , 15, 10522	3.3	25
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94	Anion intercalated layered-double-hydroxide structure for efficient photocatalytic NO remove. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 270-277	5.7	24
93	In situ growth of Au nanoparticles on 3D Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> for surface plasmon enhanced visible light photocatalysis. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 8446-8453	3.6	23

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91	Photocatalytic removal of NO by intercalated carbon nitride: The effect of group IIA element ions. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 273, 119007	21.8	23
90	Facile construction of Bi <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> @Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> heterojunctions for enhanced photocatalytic efficiency toward NO removal and study of the conversion process. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 268-275	11.3	23
89	Oxygen vacancies on the BiOCl surface promoted photocatalytic complete NO oxidation via superoxide radicals. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2737-2741	8.1	22
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87	Synergetic effect of BiOCl/Bi <sub>12</sub> O <sub>17</sub> Cl <sub>2</sub> and MoS <sub>2</sub> : in situ DRIFTS investigation on photocatalytic NO oxidation pathway. <i>Rare Metals</i> , <b>2019</b> , 38, 437-445	5.5	21
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85	Simultaneous Pd <sup>2+</sup> doping and Pd metal deposition on (BiO) <sub>2</sub> CO <sub>3</sub> microspheres for enhanced and stable visible light photocatalysis. <i>Applied Catalysis A: General</i> , <b>2016</b> , 510, 161-170	5.1	19
84	Non-noble metal plasmonic photocatalysis in semimetal bismuth films for photocatalytic NO oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25610-25616	3.6	19
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79	A Cost-Effective Solid-State Approach to Synthesize g-C <sub>3</sub> N <sub>4</sub> Coated TiO <sub>2</sub> Nanocomposites with Enhanced Visible Light Photocatalytic Activity. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-7	2.1	17
78	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129305	14.7	17
77	In situ loading of MoO <sub>3</sub> clusters on ultrathin Bi <sub>2</sub> MoO <sub>6</sub> nanosheets for synergistically enhanced photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 292, 120159	21.8	17
76	Atomic interfacial structure and charge transfer mechanism on in-situ formed BiOI/Bi <sub>2</sub> O <sub>2</sub> SO <sub>4</sub> p/n heterojunctions with highly promoted photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120492	21.8	17
75	Selective breakage of C-H bonds in the key oxidation intermediates of gaseous formaldehyde on self-doped CaSn(OH) <sub>6</sub> cubes for safe and efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119214	21.8	16



74	Synthesis of flower-like, pinon-like and faceted nanoplates (BiO) <sub>2</sub> CO <sub>3</sub> micro/nanostructures with morphology-dependent photocatalytic activity. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 142, 381-386	4.4	16
73	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> -assisted polycondensation of dicyandiamide for porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic NO removal. <i>RSC Advances</i> , <b>2016</b> , 6, 96334-96338	3.7	16
72	Growth of g-C <sub>3</sub> N <sub>4</sub> Layer on Commercial TiO <sub>2</sub> for Enhanced Visible Light Photocatalytic Activity. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-8	3.2	15
71	An atomic insight into BiOBr/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> p-n heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 826-834	5.5	15
70	Zn-doping mediated formation of oxygen vacancies in SnO <sub>2</sub> with unique electronic structure for efficient and stable photocatalytic toluene degradation. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 1195-1204	11.3	15
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68	Carbonate doped BiMoO hierarchical nanostructure with enhanced transformation of active radicals for efficient photocatalytic removal of NO. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 557, 816-824	9.3	14
67	High visible-light photocatalytic performance of stable lead-free Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskite nanocrystals. <i>Journal of Catalysis</i> , <b>2021</b> , 397, 27-35	7.3	14
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65	In situ DRIFT investigation on the photocatalytic NO oxidation mechanism with thermally exfoliated porous g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>RSC Advances</i> , <b>2017</b> , 7, 19280-19287	3.7	13
64	High-surface energy enables efficient and stable photocatalytic toluene degradation via the suppression of intermediate byproducts. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2952-2959	5.5	13
63	Controlling the secondary pollutant on B-doped g-C <sub>3</sub> N <sub>4</sub> during photocatalytic NO removal: a combined DRIFTS and DFT investigation. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 4531-4537	5.5	13
62	Insights for optimum cation defects in photocatalysis: A case study of hematite nanostructures. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118506	21.8	13
61	Uncovering the synergy between Mn substitution and O vacancy in ZnAl-LDH photocatalyst for efficient toluene removal. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 296, 120376	21.8	13
60	Controlled hydrogenation into defective interlayer bismuth oxychloride via vacancy engineering. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	12
59	High-efficiency photocatalytic decomposition of toluene over defective InOOH: Promotive role of oxygen vacancies in ring opening process. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127389	14.7	12
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- 2 A new strategy for plasma-catalytic reduction of NO to N<sub>2</sub> on the surface of modified Bi<sub>2</sub>MoO<sub>6</sub>. *Chemical Engineering Journal*, **2022**, 440, 135754 14.7 ○
- 1 Green Production of Solar Fuels Using Formaldehyde Pollutant as a Carbon Feedstock Achieving Conversion of Waste into Energy. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 31-36 8.3