

Yanjuan Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

289
papers

23,730
citations

85
h-index

145
g-index

299
ext. papers

27,986
ext. citations

10.7
avg, IF

7.64
L-index

#	Paper	IF	Citations
289	Photocatalytic destruction of volatile aromatic compounds by platinized titanium dioxide in relation to the relative effect of the number of methyl groups on the benzene ring.. <i>Science of the Total Environment</i> , 2022 , 822, 153605	10.2	4
288	Insights into peroxymonosulfate activation under visible Light: Sc ₂ O ₃ @C ₃ N ₄ mediated photoexcited electron transfer. <i>Chemical Engineering Journal</i> , 2022 , 435, 134836	14.7	1
287	Activating earth-abundant insulator BaSO ₄ for visible-light induced degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121182	21.8	3
286	Porous Mn-doped Co ₃ O ₄ nanosheets: Gas sensing performance and interfacial mechanism investigation with In situ DRIFTS. <i>Sensors and Actuators B: Chemical</i> , 2022 , 353, 131155	8.5	1
285	Highly enhanced photocatalytic toluene degradation and in situ FT-IR investigation on designed Sn-doped BiOCl nanosheets. <i>Applied Surface Science</i> , 2022 , 578, 152002	6.7	3
284	Enhanced photocatalytic NO removal with the superior selectivity for NO ₂ /NO ₃ species of Bi ₁₂ GeO ₂₀ -based composites via a ball-milling treatment: Synergetic effect of surface oxygen vacancies and n-p heterojunctions. <i>Composites Part B: Engineering</i> , 2022 , 231, 109600	10	4
283	The mechanisms of interfacial charge transfer and photocatalysis reaction over Cs ₃ Bi ₂ Cl ₉ QD/(BiO) ₂ CO ₃ heterojunction. <i>Chemical Engineering Journal</i> , 2022 , 430, 132974	14.7	2
282	Light-induced secondary hydroxyl defects in Sr _{1-x} Sn(OH) ₆ enable sustained and efficient photocatalytic toluene mineralization. <i>Chemical Engineering Journal</i> , 2022 , 427, 131764	14.7	1
281	Thermocatalytic oxidation of gaseous benzene by a titanium dioxide supported platinum catalyst. <i>Chemical Engineering Journal</i> , 2022 , 428, 131090	14.7	4
280	A new strategy for plasma-catalytic reduction of NO to N ₂ on the surface of modified Bi ₂ MoO ₆ . <i>Chemical Engineering Journal</i> , 2022 , 440, 135754	14.7	0
279	Unveiling the collective effects of moisture and oxygen on the photocatalytic degradation of m-Xylene using a titanium dioxide supported platinum catalyst. <i>Chemical Engineering Journal</i> , 2022 , 439, 135747	14.7	1
278	Green Production of Solar Fuels Using Formaldehyde Pollutant as a Carbon Feedstock Achieving Conversion of Waste into Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 31-36	8.3	
277	BiOBr with oxygen vacancies capture OD black phosphorus quantum dots for high efficient photocatalytic ofloxacin degradation. <i>Applied Surface Science</i> , 2022 , 593, 153422	6.7	4
276	Efficient NO removal and photocatalysis mechanism over Bi-metal@Bi ₂ O ₂ [BO ₂ (OH)] with oxygen vacancies. <i>Journal of Hazardous Materials</i> , 2022 , 129271	12.8	1
275	Reheat treatment under vacuum induces pre-calcined δ -MnO with oxygen vacancy as efficient catalysts for toluene oxidation. <i>Chemosphere</i> , 2021 , 289, 133081	8.4	1
274	Photocatalytic reaction mechanisms at the gas/solid interface for environmental and energy applications. <i>Catalysis Science and Technology</i> , 2021 , 11, 7807-7839	5.5	3
273	Crystal-Structure-Dependent Photocatalytic Redox Activity and Reaction Pathways over GaO Polymorphs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50975-50987	9.5	1

272	Enhanced Photocatalytic VOCs Mineralization via Special Ga-O-H Charge Transfer Channel in β -Ga ₂ O ₃ /MgAl-LDH Heterojunction. <i>ACS ES&T Engineering</i> , 2021 , 1, 501-511		8
271	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8597-8605	3.8	11
270	CsPbBr ₃ Perovskite Nanocrystal: A Robust Photocatalyst for Realizing NO Abatement. <i>ACS ES&T Engineering</i> , 2021 , 1, 1021-1027		5
269	Enhanced Reactant Activation and Transformation for Efficient Photocatalytic Acetone Degradation on SnO ₂ via Hf Doping. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100115	5.9	2
268	Alkali/alkaline-earth metal intercalated g-C ₃ N ₄ induced charge redistribution and optimized photocatalysis: status and challenges. <i>JPhys Energy</i> , 2021 , 3, 032008	4.9	3
267	High visible-light photocatalytic performance of stable lead-free Cs ₂ AgBiBr ₆ double perovskite nanocrystals. <i>Journal of Catalysis</i> , 2021 , 397, 27-35	7.3	14
266	Humidity-Independent Photocatalytic Toluene Mineralization Benefits from the Utilization of Edge Hydroxyls in Layered Double Hydroxides (LDHs): A Combined Operando and Theoretical Investigation. <i>ACS Catalysis</i> , 2021 , 11, 8132-8139	13.1	7
265	Optimizing the metal-support interactions at the Pd-polymer carbon nitride Mott-Schottky heterojunction interface for an enhanced electrocatalytic hydrodechlorination reaction. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125119	12.8	6
264	Zn-doping mediated formation of oxygen vacancies in SnO ₂ with unique electronic structure for efficient and stable photocatalytic toluene degradation. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1195-1204	11.3	15
263	Perovskite Nanocrystals-Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. <i>Solar Rrl</i> , 2021 , 5, 2000419	7.1	8
262	Efficient β -MnO with (2 1 0) facet exposed for catalytic oxidation of toluene at low temperature: A combined in-situ DRIFTS and theoretical investigation. <i>Chemosphere</i> , 2021 , 263, 128103	8.4	11
261	High-efficiency photocatalytic decomposition of toluene over defective InOOH: Promotive role of oxygen vacancies in ring opening process. <i>Chemical Engineering Journal</i> , 2021 , 413, 127389	14.7	12
260	Bismuth nanoparticles and oxygen vacancies synergistically attired Zn ₂ SnO ₄ with optimized visible-light-active performance. <i>Nano Energy</i> , 2021 , 80, 105415	17.1	19
259	Heterojunction interface of zinc oxide and zinc sulfide promoting reactive molecules activation and carrier separation toward efficient photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 826-837	9.3	10
258	Motivated surface reaction thermodynamics on the bismuth oxyhalides with lattice strain for enhanced photocatalytic NO oxidation. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119694	21.8	8
257	Tailoring unique neural-network-type carbon nanofibers inserted in CoP/NC polyhedra for robust hydrogen evolution reaction. <i>Nanoscale</i> , 2021 , 13, 14705-14712	7.7	0
256	Photocatalytic reaction mechanisms at a gas/solid interface for typical air pollutant decomposition. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20184-20210	13	5
255	Tuning the Active Sites of Atomically Thin Defective BiOCl via Incorporation of Subnanometer Clusters. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9216-9223	9.5	7

254	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 417, 129305	14.7	17
253	Highly efficient photocatalytic NO removal and in situ DRIFTS investigation on SrSn(OH) ₆ . <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
252	Identification of deactivation-resistant origin of In(OH) for efficient and durable photodegradation of benzene, toluene and their mixtures. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126208	12.8	7
251	In situ loading of MoO ₃ clusters on ultrathin Bi ₂ MoO ₆ nanosheets for synergistically enhanced photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120159	21.8	17
250	Efficient photocatalytic toluene degradation over heterojunction of GQDs@BiOCl ultrathin nanosheets with selective benzoic acid activation. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126577	12.8	4
249	Crystal-structure dependent reaction pathways in photocatalytic formaldehyde mineralization on BiPO ₄ . <i>Journal of Hazardous Materials</i> , 2021 , 420, 126633	12.8	4
248	Efficient visible light photocatalytic NO abatement over SrSn(OH) nanowires loaded with Ag/AgO cocatalyst. <i>Environmental Research</i> , 2021 , 201, 111521	7.9	1
247	Uncovering the synergy between Mn substitution and O vacancy in ZnAl-LDH photocatalyst for efficient toluene removal. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120376	21.8	13
246	Promote reactants activation and key intermediates formation for facilitated toluene photodecomposition via Ba active sites construction. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120489	21.8	5
245	B doped Bi ₂ O ₂ CO ₃ hierarchical microspheres: Enhanced photocatalytic performance and reaction mechanism for NO removal. <i>Catalysis Today</i> , 2021 , 380, 230-236	5.3	3
244	Atomic interfacial structure and charge transfer mechanism on in-situ formed BiOI/Bi ₂ O ₂ SO ₄ p/n heterojunctions with highly promoted photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120492	21.8	17
243	Doping and facet effects synergistically mediated interfacial reaction mechanism and selectivity in photocatalytic NO abatement. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 624-634	9.3	4
242	The structural differences of perovskite ATiO ₃ (A=[Ca, Sr]) dictate the photocatalytic VOCs mineralization efficiency. <i>Chemical Engineering Journal</i> , 2021 , 425, 130613	14.7	7
241	Rare-Earth Single-Atom La-N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO Reduction. <i>ACS Nano</i> , 2020 , 14, 15841-15852	16.7	123
240	La-doping induced localized excess electrons on (BiO)CO for efficient photocatalytic NO removal and toxic intermediates suppression. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123174	12.8	25
239	Selective breakage of C-H bonds in the key oxidation intermediates of gaseous formaldehyde on self-doped CaSn(OH) ₆ cubes for safe and efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119214	21.8	16
238	Nature-inspired CaCO ₃ loading TiO ₂ composites for efficient and durable photocatalytic mineralization of gaseous toluene. <i>Science Bulletin</i> , 2020 , 65, 1626-1634	10.6	34
237	Controlled hydrogenation into defective interlayer bismuth oxychloride via vacancy engineering. <i>Communications Chemistry</i> , 2020 , 3,	6.3	12

236	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. <i>ACS Catalysis</i> , 2020 , 10, 7230-7239	13.1	49
235	Oxygen vacancies on the BiOCl surface promoted photocatalytic complete NO oxidation via superoxide radicals. <i>Chinese Chemical Letters</i> , 2020 , 31, 2737-2741	8.1	22
234	Interfacial activation of reactants and intermediates on CaSO ₄ insulator-based heterostructure for efficient photocatalytic NO removal. <i>Chemical Engineering Journal</i> , 2020 , 390, 124609	14.7	26
233	Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. <i>ACS Catalysis</i> , 2020 , 10, 8683-8716	13.1	29
232	Theoretical design and experimental investigation on highly selective Pd particles decorated CN for safe photocatalytic NO purification. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122357	12.8	59
231	SrTiO ₃ /BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 710-718	11.3	24
230	C ₃ N ₄ with engineered three coordinated (N ₃ C) nitrogen vacancy boosts the production of ¹ O ₂ for Efficient and stable NO photo-oxidation. <i>Chemical Engineering Journal</i> , 2020 , 389, 124421	14.7	21
229	Synergistic effects of crystal structure and oxygen vacancy on Bi ₂ O ₃ polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. <i>Science Bulletin</i> , 2020 , 65, 467-476	10.6	67
228	Bi quantum dots implanted 2D C-doped BiOCl nanosheets: Enhanced visible light photocatalysis efficiency and reaction pathway. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1430-1438	11.3	50
227	Bismuth metal and semiconductor-based photocatalysts: structure tuning, activity enhancement, and reaction mechanism. <i>Interface Science and Technology</i> , 2020 , 31, 349-377	2.3	1
226	The high selectivity for benzoic acid formation on Ca ₂ Sb ₂ O ₇ enables efficient and stable toluene mineralization. <i>Applied Catalysis B: Environmental</i> , 2020 , 271, 118948	21.8	23
225	Mo Promotes Interfacial Interaction and Induces Oxygen Vacancies in 2D/2D of Mo-g-C ₃ N ₄ and Bi ₂ O ₂ CO ₃ Photocatalyst for Enhanced NO Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9509-9518	3.9	9
224	Photocatalytic removal of NO by intercalated carbon nitride: The effect of group IIA element ions. <i>Applied Catalysis B: Environmental</i> , 2020 , 273, 119007	21.8	23
223	TiC MXene modified g-CN with enhanced visible-light photocatalytic performance for NO purification. <i>Journal of Colloid and Interface Science</i> , 2020 , 575, 443-451	9.3	39
222	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118251	21.8	70
221	An atomic insight into BiOBr/La ₂ Ti ₂ O ₇ p-n heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. <i>Catalysis Science and Technology</i> , 2020 , 10, 826-834	5.5	15
220	Bi metal prevents the deactivation of oxygen vacancies in Bi ₂ O ₂ CO ₃ for stable and efficient photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118545	21.8	102
219	Facile construction of Bi ₂ Mo ₃ O ₁₂ @Bi ₂ O ₂ CO ₃ heterojunctions for enhanced photocatalytic efficiency toward NO removal and study of the conversion process. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 268-275	11.3	23

218	Controllable synthesis of a 3D ZnS@MoO ₃ heterojunction via a hydrothermal method towards efficient NO purification under visible light. <i>CrystEngComm</i> , 2020 , 22, 257-266	3.3	5
217	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. <i>Catalysis Science and Technology</i> , 2020 , 10, 529-535	5.5	6
216	Oxygen vacancy engineering of self-doped SnO ₂ nanocrystals for ultrasensitive NO ₂ detection. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 487-494	7.1	52
215	BaWO ₄ /g-C ₃ N ₄ heterostructure with excellent bifunctional photocatalytic performance. <i>Chemical Engineering Journal</i> , 2020 , 385, 123833	14.7	38
214	Insights for optimum cation defects in photocatalysis: A case study of hematite nanostructures. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118506	21.8	13
213	Bi-based photocatalysts for light-driven environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. <i>EcoMat</i> , 2020 , 2, e12047	9.4	35
212	Surface Hydrogen Atoms Promote Oxygen Activation for Solar Light-Driven NO Oxidation over Monolithic Ni(OH)/Ni Foam. <i>Environmental Science & Technology</i> , 2020 , 54, 16221-16230	10.3	7
211	Unveiling the unconventional roles of methyl number on the ring-opening barrier in photocatalytic decomposition of benzene, toluene and o-xylene. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119318	21.8	25
210	Single-Atom Ru-Implanted Metal-Organic Framework/MnO ₂ for the Highly Selective Oxidation of NO _x by Plasma Activation. <i>ACS Catalysis</i> , 2020 , 10, 10185-10196	13.1	26
209	Grand Challenges for Catalytic Remediation in Environmental and Energy Applications Toward a Cleaner and Sustainable Future. <i>Frontiers in Environmental Chemistry</i> , 2020 , 1,	3	11
208	2D g-C ₃ N ₄ for advancement of photo-generated carrier dynamics: Status and challenges. <i>Materials Today</i> , 2020 , 41, 270-303	21.8	87
207	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO-to-CO Photoreduction. <i>ACS Nano</i> , 2020 , 14, 13103-13114	16.7	101
206	Mechanisms of Interfacial Charge Transfer and Photocatalytic NO Oxidation on BiOBr/SnO p-n Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43741-43749	9.5	33
205	Inhibition of the toxic byproduct during photocatalytic NO oxidation via La doping in ZnO. <i>Chinese Chemical Letters</i> , 2020 , 31, 751-754	8.1	18
204	Oxygen activation of noble-metal-free g-C ₃ N ₄ /Ni(OH) ₂ to control the toxic byproduct of photocatalytic nitric oxide removal. <i>Chemical Engineering Journal</i> , 2020 , 382, 123029	14.7	15
203	Nitrogen defect structure and NO ⁺ intermediate promoted photocatalytic NO removal on H ₂ treated g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2020 , 379, 122282	14.7	161
202	Highly durable isotypic heterojunction generated by covalent cross-linking with organic linkers for improving visible-light-driven photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118182	21.8	11
201	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118130	21.8	75

200	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118977	21.8	46
199	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> , 2019 , 557, 816-824	9.3	14
198	Facet-dependent photocatalytic NO conversion pathways predetermined by adsorption activation patterns. <i>Nanoscale</i> , 2019 , 11, 2366-2373	7.7	36
197	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3366-3374	13	110
196	Synergistic integration of metallic Bi and defects on BiOI: Enhanced photocatalytic NO removal and conversion pathway. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 826-836	11.3	46
195	Quantifying the activation energies of ROS-induced NO _x conversion: Suppressed toxic intermediates generation and clarified reaction mechanism. <i>Chemical Engineering Journal</i> , 2019 , 375, 122026	14.7	11
194	Cu supported on polymeric carbon nitride for selective CO ₂ reduction into CH ₄ : a combined kinetics and thermodynamics investigation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17014-17021	13	63
193	Facile synthesis of CeO ₂ /g-C ₃ N ₄ nanocomposites with significantly improved visible-light photocatalytic activity for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16154-16163	6.7	39
192	The pivotal effects of oxygen vacancy on Bi ₂ MoO ₆ : Promoted visible light photocatalytic activity and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 647-655	11.3	52
191	Pivotal roles of artificial oxygen vacancies in enhancing photocatalytic activity and selectivity on Bi ₂ O ₂ CO ₃ nanosheets. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 620-630	11.3	48
190	Carbonate-intercalated defective bismuth tungstate for efficiently photocatalytic NO removal and promotion mechanism study. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 206-213	21.8	33
189	High-surface energy enables efficient and stable photocatalytic toluene degradation via the suppression of intermediate byproducts. <i>Catalysis Science and Technology</i> , 2019 , 9, 2952-2959	5.5	13
188	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. <i>Science Bulletin</i> , 2019 , 64, 669-678	10.6	90
187	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO ₄ . <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 293-299	21.8	51
186	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> , 2019 , 11, 6360-6367	7.7	56
185	Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. <i>Chemical Engineering Journal</i> , 2019 , 370, 944-951	14.7	42
184	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. <i>Chinese Chemical Letters</i> , 2019 , 30, 875-880	8.1	31
183	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11584-11612	13	109

182	A Bi/BiOI/(BiO) ₂ CO ₃ heterostructure for enhanced photocatalytic NO removal under visible light. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 362-370	11.3	46
181	Synergetic effect of BiOCl/Bi ₁₂ O ₁₇ Cl ₂ and MoS ₂ : in situ DRIFTS investigation on photocatalytic NO oxidation pathway. <i>Rare Metals</i> , 2019 , 38, 437-445	5.5	21
180	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi ₂ GeO ₅ with oxygen vacancies: A combined experimental and theoretical investigation. <i>Chemical Engineering Journal</i> , 2019 , 370, 1366-1375	14.7	103
179	SnO ₂ quantum dots anchored on g-C ₃ N ₄ for enhanced visible-light photocatalytic removal of NO and toxic NO ₂ inhibition. <i>Applied Surface Science</i> , 2019 , 496, 143630	6.7	51
178	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2019 , 378, 122184	14.7	42
177	Novel CaCO ₃ /g-C ₃ N ₄ composites with enhanced charge separation and photocatalytic activity. <i>Journal of Saudi Chemical Society</i> , 2019 , 23, 1109-1118	4.3	10
176	Controlling the secondary pollutant on B-doped g-C ₃ N ₄ during photocatalytic NO removal: a combined DRIFTS and DFT investigation. <i>Catalysis Science and Technology</i> , 2019 , 9, 4531-4537	5.5	13
175	Graphene oxide mediated co-generation of C-doping and oxygen defects in BiWO nanosheets: a combined DRIFTS and DFT investigation. <i>Nanoscale</i> , 2019 , 11, 20562-20570	7.7	24
174	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO for Sustainable Visible Light Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47984-47991	9.5	36
173	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi ₂ O ₂ SiO ₃ . <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 187-195	21.8	105
172	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> , 2019 , 58, 3880-3884	16.4	329
171	Synthesis of Bi ₂ WO ₆ with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. <i>Chemical Engineering Journal</i> , 2019 , 361, 129-138	14.7	145
170	Anion intercalated layered-double-hydroxide structure for efficient photocatalytic NO remove. <i>Green Energy and Environment</i> , 2019 , 4, 270-277	5.7	24
169	Three-in-One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO ₂ Photoreduction. <i>Angewandte Chemie</i> , 2019 , 131, 3920-3924	3.6	40
168	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1808084	15.6	50
167	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3010-3017	8.3	57
166	Synergistic integration of Bi metal and phosphate defects on hexagonal and monoclinic BiPO ₄ : Enhanced photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 313-321	21.8	121
165	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> , 2019 , 242, 19-30	21.8	79

164	Highly enhanced visible-light photocatalytic NO x purification and conversion pathway on self-structurally modified g-C 3 N 4 nanosheets. <i>Science Bulletin</i> , 2018 , 63, 609-620	10.6	51
163	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 779-789	11.3	38
162	Synergistic photo-thermal catalytic NO purification of MnO x /g-C 3 N 4 : Enhanced performance and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 619-629	11.3	56
161	KCl-mediated dual electronic channels in layered g-CN for enhanced visible light photocatalytic NO removal. <i>Nanoscale</i> , 2018 , 10, 8066-8074	7.7	101
160	Band structure engineering and efficient charge transport in oxygen substituted g-C3N4 for superior photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 115-124	21.8	94
159	One-step preparation of a novel SrCO/g-CN nano-composite and its application in selective adsorption of crystal violet.. <i>RSC Advances</i> , 2018 , 8, 6315-6325	3.7	38
158	Unraveling the Mechanisms of Visible Light Photocatalytic NO Purification on Earth-Abundant Insulator-Based Core-Shell Heterojunctions. <i>Environmental Science & Technology</i> , 2018 , 52, 1479-1487	10.3	124
157	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 269-277	21.8	127
156	Readily achieving concentration-tunable oxygen vacancies in Bi2O2CO3: Triple-functional role for efficient visible-light photocatalytic redox performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 441-450	21.8	108
155	Multifunctional g-C 3 N 4 /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 17-25	21.8	89
154	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018 , 348, 26-34	14.7	65
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150	Bismuth spheres assembled on graphene oxide: Directional charge transfer enhances plasmonic photocatalysis and in situ DRIFTS studies. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 482-489	21.8	67
149	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C3N4. <i>ACS Catalysis</i> , 2018 , 8, 8376-8385	13.1	174
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147	Visible light induced electron transfer from a semiconductor to an insulator enables efficient photocatalytic activity on insulator-based heterojunctions. <i>Nanoscale</i> , 2018 , 10, 15513-15520	7.7	33

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145	Enhanced plasmonic photocatalytic disinfection on noble-metal-free bismuth nanospheres/graphene nanocomposites. <i>Catalysis Science and Technology</i> , 2018 , 8, 4600-4603	5.5	18
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143	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 187-195	21.8	113
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141	Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. <i>Journal of Catalysis</i> , 2018 , 357, 100-107	7.3	187
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23	Fe-ions modified mesoporous Bi ₂ WO ₆ nanosheets with high visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2012 , 369, 373-80	9.3	114
22	Room temperature synthesis and highly enhanced visible light photocatalytic activity of porous BiOI/BiOCl composites nanoplates microflowers. <i>Journal of Hazardous Materials</i> , 2012 , 219-220, 26-34	12.8	296
21	Controlled synthesis, growth mechanism and highly efficient solar photocatalysis of nitrogen-doped bismuth subcarbonate hierarchical nanosheets architectures. <i>Dalton Transactions</i> , 2012 , 41, 8270-84	4.3	62

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13	Template-free fabrication and growth mechanism of uniform (BiO) ₂ CO ₃ hierarchical hollow microspheres with outstanding photocatalytic activities under both UV and visible light irradiation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12428		133
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9	One-Step Green Synthetic Approach for Mesoporous C-Doped Titanium Dioxide with Efficient Visible Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16717-16723	3.8	238
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