Yanjuan Sun

List of Publications by Year in Descending Order

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.. *Science of the Total Environment*, **2022**, 822, 153605	10.2	4
288	Insights into peroxymonosulfate activation under visible Light: Sc2O3@C3N4 mediated photoexcited electron transfer. *Chemical Engineering Journal*, **2022**, 435, 134836	14.7	1
287	Activating earth-abundant insulator BaSO4 for visible-light induced degradation of tetracycline. *Applied Catalysis B: Environmental*, **2022**, 307, 121182	21.8	3
286	Porous Mn-doped Co3O4 nanosheets: Gas sensing performance and interfacial mechanism investigation with In situ DRIFTS. *Sensors and Actuators B: Chemical*, **2022**, 353, 131155	8.5	1
285	Highly enhanced photocatalytic toluene degradation and in situ FT-IR investigation on designed Sn-doped BiOCl nanosheets. *Applied Surface Science*, **2022**, 578, 152002	6.7	3
284	Enhanced photocatalytic NO removal with the superior selectivity for NO2⁻/NO3⁻ species of Bi12GeO20-based composites via a ball-milling treatment: Synergetic effect of surface oxygen vacancies and n-p heterojunctions. *Composites Part B: Engineering*, **2022**, 231, 109600	10	4
283	The mechanisms of interfacial charge transfer and photocatalysis reaction over Cs3Bi2Cl9 QD/(BiO)2CO3 heterojunction. *Chemical Engineering Journal*, **2022**, 430, 132974	14.7	2
282	Light-induced secondary hydroxyl defects in Sr1-xSn(OH)6 enable sustained and efficient photocatalytic toluene mineralization. *Chemical Engineering Journal*, **2022**, 427, 131764	14.7	1
281	Thermocatalytic oxidation of gaseous benzene by a titanium dioxide supported platinum catalyst. *Chemical Engineering Journal*, **2022**, 428, 131090	14.7	4
280	A new strategy for plasma-catalytic reduction of NO to N2 on the surface of modified Bi2MoO6. *Chemical Engineering Journal*, **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. *Chemical Engineering Journal*, **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. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 31-36	8.3	
277	BiOBr with oxygen vacancies capture 0D black phosphorus quantum dots for high efficient photocatalytic ofloxacin degradation. *Applied Surface Science*, **2022**, 593, 153422	6.7	4
276	Efficient NO removal and photocatalysis mechanism over Bi-metal@Bi2O2[BO2(OH)] with oxygen vacancies. *Journal of Hazardous Materials*, **2022**, 129271	12.8	1
275	Reheat treatment under vacuum induces pre-calcined □MnO with oxygen vacancy as efficient catalysts for toluene oxidation. *Chemosphere*, **2021**, 289, 133081	8.4	1
274	Photocatalytic reaction mechanisms at the gas□solid interface for environmental and energy applications. *Catalysis Science and Technology*, **2021**, 11, 7807-7839	5.5	3
273	Crystal-Structure-Dependent Photocatalytic Redox Activity and Reaction Pathways over GaO Polymorphs. *ACS Applied Materials & Interfaces*, **2021**, 13, 50975-50987	9.5	1

272	Enhanced Photocatalytic VOCs Mineralization via Special Ga-O-H Charge Transfer Channel in Ga2O3/MgAl-LDH Heterojunction. *ACS ES&T Engineering*, **2021**, 1, 501-511		8
271	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. *Journal of Physical Chemistry C*, **2021**, 125, 8597-8605	3.8	11
270	CsPbBr3 Perovskite Nanocrystal: A Robust Photocatalyst for Realizing NO Abatement. *ACS ES&T Engineering*, **2021**, 1, 1021-1027		5
269	Enhanced Reactant Activation and Transformation for Efficient Photocatalytic Acetone Degradation on SnO2 via Hf Doping. *Advanced Sustainable Systems*, **2021**, 5, 2100115	5.9	2
268	Alkali/alkaline-earth metal intercalated g-C3N4 induced charge redistribution and optimized photocatalysis: status and challenges. *JPhys Energy*, **2021**, 3, 032008	4.9	3
267	High visible-light photocatalytic performance of stable lead-free Cs2AgBiBr6 double perovskite nanocrystals. *Journal of Catalysis*, **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. *ACS Catalysis*, **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. *Journal of Hazardous Materials*, **2021**, 411, 125119	12.8	6
264	Zn-doping mediated formation of oxygen vacancies in SnO2 with unique electronic structure for efficient and stable photocatalytic toluene degradation. *Chinese Journal of Catalysis*, **2021**, 42, 1195-1204	11.3	15
263	Perovskite Nanocrystals-Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. *Solar Rrl*, **2021**, 5, 2000419	7.1	8
262	Efficient MnO with (2 1 0) facet exposed for catalytic oxidation of toluene at low temperature: A combined in-situ DRIFTS and theoretical investigation. *Chemosphere*, **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. *Chemical Engineering Journal*, **2021**, 413, 127389	14.7	12
260	Bismuth nanoparticles and oxygen vacancies synergistically attired Zn2SnO4 with optimized visible-light-active performance. *Nano Energy*, **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. *Journal of Colloid and Interface Science*, **2021**, 588, 826-837	9.3	10
258	Motivated surface reaction thermodynamics on the bismuth oxyhalides with lattice strain for enhanced photocatalytic NO oxidation. *Applied Catalysis B: Environmental*, **2021**, 284, 119694	21.8	8
257	Tailoring unique neural-network-type carbon nanofibers inserted in CoP/NC polyhedra for robust hydrogen evolution reaction. *Nanoscale*, **2021**, 13, 14705-14712	7.7	0
256	Photocatalytic reaction mechanisms at a gas–solid interface for typical air pollutant decomposition. *Journal of Materials Chemistry A*, **2021**, 9, 20184-20210	13	5
255	Tuning the Active Sites of Atomically Thin Defective BiOCl via Incorporation of Subnanometer Clusters. *ACS Applied Materials & Interfaces*, **2021**, 13, 9216-9223	9.5	7

254	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. *Chemical Engineering Journal*, **2021**, 417, 129305	14.7	17
253	Highly efficient photocatalytic NO removal and in situ DRIFTS investigation on SrSn(OH)6. *Chinese Chemical Letters*, **2021**,	8.1	2
252	Identification of deactivation-resistant origin of In(OH) for efficient and durable photodegradation of benzene, toluene and their mixtures. *Journal of Hazardous Materials*, **2021**, 416, 126208	12.8	7
251	In situ loading of MoO3 clusters on ultrathin Bi2MoO6 nanosheets for synergistically enhanced photocatalytic NO abatement. *Applied Catalysis B: Environmental*, **2021**, 292, 120159	21.8	17
250	Efficient photocatalytic toluene degradation over heterojunction of GQDs@BiOCl ultrathin nanosheets with selective benzoic acid activation. *Journal of Hazardous Materials*, **2021**, 420, 126577	12.8	4
249	Crystal-structure dependent reaction pathways in photocatalytic formaldehyde mineralization on BiPO. *Journal of Hazardous Materials*, **2021**, 420, 126633	12.8	4
248	Efficient visible light photocatalytic NO abatement over SrSn(OH) nanowires loaded with Ag/AgO cocatalyst. *Environmental Research*, **2021**, 201, 111521	7.9	1
247	Uncovering the synergy between Mn substitution and O vacancy in ZnAl-LDH photocatalyst for efficient toluene removal. *Applied Catalysis B: Environmental*, **2021**, 296, 120376	21.8	13
246	Promote reactants activation and key intermediates formation for facilitated toluene photodecomposition via Ba active sites construction. *Applied Catalysis B: Environmental*, **2021**, 297, 120489	21.8	5
245	B doped Bi2O2CO3 hierarchical microspheres: Enhanced photocatalytic performance and reaction mechanism for NO removal. *Catalysis Today*, **2021**, 380, 230-236	5.3	3
244	Atomic interfacial structure and charge transfer mechanism on in-situ formed BiOI/Bi2O2SO4 p□ heterojunctions with highly promoted photocatalysis. *Applied Catalysis B: Environmental*, **2021**, 297, 120492	21.8	17
243	Doping and facet effects synergistically mediated interfacial reaction mechanism and selectivity in photocatalytic NO abatement. *Journal of Colloid and Interface Science*, **2021**, 604, 624-634	9.3	4
242	The structural differences of perovskite ATiO3 (A□□Ca, Sr) dictate the photocatalytic VOCs mineralization efficiency. *Chemical Engineering Journal*, **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. *ACS Nano*, **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. *Journal of Hazardous Materials*, **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. *Applied Catalysis B: Environmental*, **2020**, 277, 119214	21.8	16
238	Nature-inspired CaCO3 loading TiO2 composites for efficient and durable photocatalytic mineralization of gaseous toluene. *Science Bulletin*, **2020**, 65, 1626-1634	10.6	34
237	Controlled hydrogenation into defective interlayer bismuth oxychloride via vacancy engineering. *Communications Chemistry*, **2020**, 3,	6.3	12

236	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. *ACS Catalysis*, **2020**, 10, 7230-7239	13.1	49
235	Oxygen vacancies on the BiOCl surface promoted photocatalytic complete NO oxidation via superoxide radicals. *Chinese Chemical Letters*, **2020**, 31, 2737-2741	8.1	22
234	Interfacial activation of reactants and intermediates on CaSO4 insulator-based heterostructure for efficient photocatalytic NO removal. *Chemical Engineering Journal*, **2020**, 390, 124609	14.7	26
233	Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. *ACS Catalysis*, **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. *Journal of Hazardous Materials*, **2020**, 392, 122357	12.8	59
231	SrTiO3/BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. *Chinese Journal of Catalysis*, **2020**, 41, 710-718	11.3	24
230	C3N4 with engineered three coordinated (N3C) nitrogen vacancy boosts the production of 1O2 for Efficient and stable NO photo-oxidation. *Chemical Engineering Journal*, **2020**, 389, 124421	14.7	21
229	Synergistic effects of crystal structure and oxygen vacancy on Bi2O3 polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. *Science Bulletin*, **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. *Chinese Journal of Catalysis*, **2020**, 41, 1430-1438	11.3	50
227	Bismuth metal and semiconductor-based photocatalysts: structure tuning, activity enhancement, and reaction mechanism. *Interface Science and Technology*, **2020**, 31, 349-377	2.3	1
226	The high selectivity for benzoic acid formation on Ca2Sb2O7 enables efficient and stable toluene mineralization. *Applied Catalysis B: Environmental*, **2020**, 271, 118948	21.8	23
225	Mo Promotes Interfacial Interaction and Induces Oxygen Vacancies in 2D/2D of Mo-g-C3N4 and Bi2O2CO3 Photocatalyst for Enhanced NO Oxidation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9509-9518	3.9	9
224	Photocatalytic removal of NO by intercalated carbon nitride: The effect of group IIA element ions. *Applied Catalysis B: Environmental*, **2020**, 273, 119007	21.8	23
223	TiC MXene modified g-CN with enhanced visible-light photocatalytic performance for NO purification. *Journal of Colloid and Interface Science*, **2020**, 575, 443-451	9.3	39
222	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. *Applied Catalysis B: Environmental*, **2020**, 262, 118251	21.8	70
221	An atomic insight into BiOBr/La2Ti2O7 p□ heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. *Catalysis Science and Technology*, **2020**, 10, 826-834	5.5	15
220	Bi metal prevents the deactivation of oxygen vacancies in Bi2O2CO3 for stable and efficient photocatalytic NO abatement. *Applied Catalysis B: Environmental*, **2020**, 264, 118545	21.8	102
219	Facile construction of Bi2Mo3O12@Bi2O2CO3 heterojunctions for enhanced photocatalytic efficiency toward NO removal and study of the conversion process. *Chinese Journal of Catalysis*, **2020**, 41, 268-275	11.3	23

218	Controllable synthesis of a 3D ZnS@MoO3 heterojunction via a hydrothermal method towards efficient NO purification under visible light. *CrystEngComm*, **2020**, 22, 257-266	3.3	5
217	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. *Catalysis Science and Technology*, **2020**, 10, 529-535	5.5	6
216	Oxygen vacancy engineering of self-doped SnO2−x nanocrystals for ultrasensitive NO2 detection. *Journal of Materials Chemistry C*, **2020**, 8, 487-494	7.1	52
215	BaWO4/g-C3N4 heterostructure with excellent bifunctional photocatalytic performance. *Chemical Engineering Journal*, **2020**, 385, 123833	14.7	38
214	Insights for optimum cation defects in photocatalysis: A case study of hematite nanostructures. *Applied Catalysis B: Environmental*, **2020**, 264, 118506	21.8	13
213	Bi-based photocatalysts for light-driven environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. *EcoMat*, **2020**, 2, e12047	9.4	35
212	Surface Hydrogen Atoms Promote Oxygen Activation for Solar Light-Driven NO Oxidization over Monolithic α-Ni(OH)/Ni Foam. *Environmental Science & Technology*, **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. *Applied Catalysis B: Environmental*, **2020**, 278, 119318	21.8	25
210	Single-Atom Ru-Implanted Metal–Organic Framework/MnO2 for the Highly Selective Oxidation of NOx by Plasma Activation. *ACS Catalysis*, **2020**, 10, 10185-10196	13.1	26
209	Grand Challenges for Catalytic Remediation in Environmental and Energy Applications Toward a Cleaner and Sustainable Future. *Frontiers in Environmental Chemistry*, **2020**, 1,	3	11
208	2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. *Materials Today*, **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. *ACS Nano*, **2020**, 14, 13103-13114	16.7	101
206	Mechanisms of Interfacial Charge Transfer and Photocatalytic NO Oxidation on BiOBr/SnO p-n Heterojunctions. *ACS Applied Materials & Interfaces*, **2020**, 12, 43741-43749	9.5	33
205	Inhibition of the toxic byproduct during photocatalytic NO oxidation via La doping in ZnO. *Chinese Chemical Letters*, **2020**, 31, 751-754	8.1	18
204	Oxygen activation of noble-metal-free g-C3N4/α-Ni(OH)2 to control the toxic byproduct of photocatalytic nitric oxide removal. *Chemical Engineering Journal*, **2020**, 382, 123029	14.7	15
203	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. *Chemical Engineering Journal*, **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. *Applied Catalysis B: Environmental*, **2020**, 260, 118182	21.8	11
201	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. *Applied Catalysis B: Environmental*, **2020**, 260, 118130	21.8	75

200	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. *Applied Catalysis B: Environmental*, **2020**, 272, 118977	21.8	46
199	Carbonate doped BiMoO hierarchical nanostructure with enhanced transformation of active radicals for efficient photocatalytic removal of NO. *Journal of Colloid and Interface Science*, **2019**, 557, 816-824	9.3	14
198	Facet-dependent photocatalytic NO conversion pathways predetermined by adsorption activation patterns. *Nanoscale*, **2019**, 11, 2366-2373	7.7	36
197	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. *Journal of Materials Chemistry A*, **2019**, 7, 3366-3374	13	110
196	Synergistic integration of metallic Bi and defects on BiOI: Enhanced photocatalytic NO removal and conversion pathway. *Chinese Journal of Catalysis*, **2019**, 40, 826-836	11.3	46
195	Quantifying the activation energies of ROS-induced NOx conversion: Suppressed toxic intermediates generation and clarified reaction mechanism. *Chemical Engineering Journal*, **2019**, 375, 122026	14.7	11
194	Cu supported on polymeric carbon nitride for selective CO2 reduction into CH4: a combined kinetics and thermodynamics investigation. *Journal of Materials Chemistry A*, **2019**, 7, 17014-17021	13	63
193	Facile synthesis of CeO2/g-C3N4 nanocomposites with significantly improved visible-light photocatalytic activity for hydrogen evolution. *International Journal of Hydrogen Energy*, **2019**, 44, 16154-16163	6.7	29
192	The pivotal effects of oxygen vacancy on Bi2MoO6: Promoted visible light photocatalytic activity and reaction mechanism. *Chinese Journal of Catalysis*, **2019**, 40, 647-655	11.3	52
191	Pivotal roles of artificial oxygen vacancies in enhancing photocatalytic activity and selectivity on Bi2O2CO3 nanosheets. *Chinese Journal of Catalysis*, **2019**, 40, 620-630	11.3	48
190	Carbonate-intercalated defective bismuth tungstate for efficiently photocatalytic NO removal and promotion mechanism study. *Applied Catalysis B: Environmental*, **2019**, 254, 206-213	21.8	33
189	High-surface energy enables efficient and stable photocatalytic toluene degradation via the suppression of intermediate byproducts. *Catalysis Science and Technology*, **2019**, 9, 2952-2959	5.5	13
188	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. *Science Bulletin*, **2019**, 64, 669-678	10.6	90
187	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO4. *Applied Catalysis B: Environmental*, **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. *Nanoscale*, **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. *Chemical Engineering Journal*, **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. *Chinese Chemical Letters*, **2019**, 30, 875-880	8.1	31
183	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. *Journal of Materials Chemistry A*, **2019**, 7, 11584-11612	13	109

182	A Bi/BiOI/(BiO)2CO3 heterostructure for enhanced photocatalytic NO removal under visible light. *Chinese Journal of Catalysis*, **2019**, 40, 362-370	11.3	46
181	Synergetic effect of BiOCl/Bi12O17Cl2 and MoS2: in situ DRIFTS investigation on photocatalytic NO oxidation pathway. *Rare Metals*, **2019**, 38, 437-445	5.5	21
180	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi2GeO5 with oxygen vacancies: A combined experimental and theoretical investigation. *Chemical Engineering Journal*, **2019**, 370, 1366-1375	14.7	103
179	SnO2 quantum dots anchored on g-C3N4 for enhanced visible-light photocatalytic removal of NO and toxic NO2 inhibition. *Applied Surface Science*, **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-C3N4. *Chemical Engineering Journal*, **2019**, 378, 122184	14.7	42
177	Novel CaCO3/g-C3N4 composites with enhanced charge separation and photocatalytic activity. *Journal of Saudi Chemical Society*, **2019**, 23, 1109-1118	4.3	10
176	Controlling the secondary pollutant on B-doped g-C3N4 during photocatalytic NO removal: a combined DRIFTS and DFT investigation. *Catalysis Science and Technology*, **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. *Nanoscale*, **2019**, 11, 20562-20570	7.7	24
174	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO for Sustainable Visible Light Photocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 47984-47991	9.5	36
173	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi2O2SiO3. *Applied Catalysis B: Environmental*, **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. *Angewandte Chemie - International Edition*, **2019**, 58, 3880-3884	16.4	329
171	Synthesis of Bi2WO6 with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. *Chemical Engineering Journal*, **2019**, 361, 129-138	14.7	145
170	Anion intercalated layered-double-hydroxide structure for efficient photocatalytic NO remove. *Green Energy and Environment*, **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 CO2 Photoreduction. *Angewandte Chemie*, **2019**, 131, 3920-3924	3.6	40
168	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. *Advanced Functional Materials*, **2019**, 29, 1808084	15.6	50
167	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3010-3017	8.3	57
166	Synergistic integration of Bi metal and phosphate defects on hexagonal and monoclinic BiPO4: Enhanced photocatalysis and reaction mechanism. *Applied Catalysis B: Environmental*, **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. *Applied Catalysis B: Environmental*, **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. *Science Bulletin*, **2018**, 63, 609-620	10.6	51
163	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies. *Chinese Journal of Catalysis*, **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. *Chinese Journal of Catalysis*, **2018**, 39, 619-629	11.3	56
161	KCl-mediated dual electronic channels in layered g-CN for enhanced visible light photocatalytic NO removal. *Nanoscale*, **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. *Applied Catalysis B: Environmental*, **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.. *RSC Advances*, **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. *Environmental Science & Technology*, **2018**, 52, 1479-1487	10.3	124
157	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. *Applied Catalysis B: Environmental*, **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. *Applied Catalysis B: Environmental*, **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. *Applied Catalysis B: Environmental*, **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. *Chemical Engineering Journal*, **2018**, 348, 26-34	14.7	65
153	Activation of amorphous Bi2WO6 with synchronous Bi metal and Bi2O3 coupling: Photocatalysis mechanism and reaction pathway. *Applied Catalysis B: Environmental*, **2018**, 232, 340-347	21.8	130
152	The activation of reactants and intermediates promotes the selective photocatalytic NO conversion on electron-localized Sr-intercalated g-C3N4. *Applied Catalysis B: Environmental*, **2018**, 232, 69-76	21.8	98
151	2D BiOCl/Bi 12 O 17 Cl 2 nanojunction: Enhanced visible light photocatalytic NO removal and in situ DRIFTS investigation. *Applied Surface Science*, **2018**, 430, 571-577	6.7	57
150	Bismuth spheres assembled on graphene oxide: Directional charge transfer enhances plasmonic photocatalysis and in situ DRIFTS studies. *Applied Catalysis B: Environmental*, **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. *ACS Catalysis*, **2018**, 8, 8376-8385	13.1	174
148	Photocatalytic NO oxidation on N-doped TiO2/g-C3N4 heterojunction: Enhanced efficiency, mechanism and reaction pathway. *Applied Surface Science*, **2018**, 458, 77-85	6.7	56
147	Visible light induced electron transfer from a semiconductor to an insulator enables efficient photocatalytic activity on insulator-based heterojunctions. *Nanoscale*, **2018**, 10, 15513-15520	7.7	33

146	Defective Bi4MoO9/Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. *Applied Catalysis B: Environmental*, **2018**, 239, 619-627	21.8	97
145	Enhanced plasmonic photocatalytic disinfection on noble-metal-free bismuth nanospheres/graphene nanocomposites. *Catalysis Science and Technology*, **2018**, 8, 4600-4603	5.5	18
144	Simultaneous introduction of oxygen vacancies and Bi metal onto the {001} facet of BiOCl woven nanobelts for synergistically enhanced photocatalysis. *Nanoscale*, **2018**, 10, 16928-16934	7.7	31
143	Tailoring the rate-determining step in photocatalysis via localized excess electrons for efficient and safe air cleaning. *Applied Catalysis B: Environmental*, **2018**, 239, 187-195	21.8	113
142	Efficient and stable photocatalytic NO removal on C self-doped g-C3N4: electronic structure and reaction mechanism. *Catalysis Science and Technology*, **2018**, 8, 3387-3394	5.5	44
141	Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. *Journal of Catalysis*, **2018**, 357, 100-107	7.3	187
140	Highly enhanced visible light photocatalysis and in situ FT-IR studies on Bi metal@defective BiOCl hierarchical microspheres. *Applied Catalysis B: Environmental*, **2018**, 225, 218-227	21.8	178
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