# Fan Dong

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 411 papers | 30,002 citations | 92 h-index | 157 g-index |
| 438 ext. papers | 36,119 ext. citations | 10.3 avg, IF | 7.89 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 411 | 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 |
| 410 | Metal-organic framework derived carbon-supported bimetallic copper-nickel alloy electrocatalysts for highly selective nitrate reduction to ammonia.. *Journal of Colloid and Interface Science*, **2022**, 614, 405-414 | 9.3 | 4 |
| 409 | Insights into peroxymonosulfate activation under visible Light: Sc2O3@C3N4 mediated photoexcited electron transfer. *Chemical Engineering Journal*, **2022**, 435, 134836 | 14.7 | 1 |
| 408 | Activating earth-abundant insulator BaSO4 for visible-light induced degradation of tetracycline. *Applied Catalysis B: Environmental*, **2022**, 307, 121182 | 21.8 | 3 |
| 407 | 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 |
| 406 | 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 |
| 405 | 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 |
| 404 | The mechanisms of interfacial charge transfer and photocatalysis reaction over Cs3Bi2Cl9 QD/(BiO)2CO3 heterojunction. *Chemical Engineering Journal*, **2022**, 430, 132974 | 14.7 | 2 |
| 403 | 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 |
| 402 | Deep oxidation of gaseous formaldehyde at room-temperature by a durable catalyst formed through the controlled addition of potassium to platinum supported on waste eggshell. *Chemical Engineering Journal*, **2022**, 428, 131177 | 14.7 | 10 |
| 401 | Promote the activation and ring opening of intermediates for stable photocatalytic toluene degradation over Zn-Ti-LDH. *Journal of Colloid and Interface Science*, **2022**, 606, 1435-1444 | 9.3 | 3 |
| 400 | Thermocatalytic oxidation of gaseous benzene by a titanium dioxide supported platinum catalyst. *Chemical Engineering Journal*, **2022**, 428, 131090 | 14.7 | 4 |
| 399 | Frustrated Lewis Pair Sites Boosting CO2 Photoreduction on Cs2CuBr4 Perovskite Quantum Dots. *ACS Catalysis*, **2022**, 12, 2915-2926 | 13.1 | 10 |
| 398 | Photoswitchable Chlorine Vacancies in Ultrathin Bi4O5Cl2 for Selective CO2 Photoreduction. *ACS Catalysis*, **2022**, 12, 3965-3973 | 13.1 | 8 |
| 397 | Subnanometric alkaline-earth oxide clusters for sustainable nitrate to ammonia photosynthesis.. *Nature Communications*, **2022**, 13, 1098 | 17.4 | 5 |
| 396 | Low-temperature oxidative removal of gaseous formaldehyde by an eggshell waste supported silver-manganese dioxide bimetallic catalyst with ultralow noble metal content.. *Journal of Hazardous Materials*, **2022**, 434, 128857 | 12.8 | 0 |
| 395 | Interfacial engineering of In2O3/InN heterostructure with promoted charge transfer for highly efficient CO2 reduction to formate. *Chemical Engineering Journal*, **2022**, 437, 135114 | 14.7 | 2 |

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| 394 | 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 |
| 393 | 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 |
| 392 | 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 | |
| 391 | The Crystal Plane is not the Key Factor for CO 2 -to-Methane Electrosynthesis on Reconstructed Cu 2 O Microparticles. *Angewandte Chemie*, **2022**, 134, | 3.6 | 1 |
| 390 | Interfacial Electrolyte Effects on Electrocatalytic CO2 Reduction. *ACS Catalysis*, **2022**, 12, 331-362 | 13.1 | 9 |
| 389 | Synergistic degradation of NO and C7H8 for inhibition of O3 generation. *Applied Catalysis B: Environmental*, **2022**, 312, 121423 | 21.8 | 0 |
| 388 | 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 |
| 387 | Substitution of B-site in BaSb2O6 perovskite for surface lattice oxygen activation and boosted photocatalytic toluene mineralization. *Journal of Hazardous Materials*, **2022**, 129089 | 12.8 | 0 |
| 386 | Efficient NO removal and photocatalysis mechanism over Bi-metal@Bi2O2[BO2(OH)] with oxygen vacancies. *Journal of Hazardous Materials*, **2022**, 129271 | 12.8 | 1 |
| 385 | Reheat treatment under vacuum induces pre-calcined □MnO with oxygen vacancy as efficient catalysts for toluene oxidation. *Chemosphere*, **2021**, 289, 133081 | 8.4 | 1 |
| 384 | Photocatalytic reaction mechanisms at the gas□solid interface for environmental and energy applications. *Catalysis Science and Technology*, **2021**, 11, 7807-7839 | 5.5 | 3 |
| 383 | Activation and characterization of environmental catalysts in plasma-catalysis: Status and challenges.. *Journal of Hazardous Materials*, **2021**, 427, 128150 | 12.8 | 4 |
| 382 | Thermocatalytic oxidation of a three-component mixture of volatile organic compounds by a titanium dioxide-supported platinum catalyst. *Journal of Cleaner Production*, **2021**, 325, 129279 | 10.3 | 3 |
| 381 | Crystal-Structure-Dependent Photocatalytic Redox Activity and Reaction Pathways over GaO Polymorphs. *ACS Applied Materials & Interfaces*, **2021**, 13, 50975-50987 | 9.5 | 1 |
| 380 | 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 |
| 379 | Modulating electron density of vacancy site by single Au atom for effective CO photoreduction. *Nature Communications*, **2021**, 12, 1675 | 17.4 | 48 |
| 378 | Recent Advances in Noncontact External-Field-Assisted Photocatalysis: From Fundamentals to Applications. *ACS Catalysis*, **2021**, 11, 4739-4769 | 13.1 | 59 |
| 377 | 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 |

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| 376 | CsPbBr3 Perovskite Nanocrystal: A Robust Photocatalyst for Realizing NO Abatement. *ACS ES&T Engineering*, **2021**, 1, 1021-1027 | | 5 |
| 375 | Enhanced Reactant Activation and Transformation for Efficient Photocatalytic Acetone Degradation on SnO2 via Hf Doping. *Advanced Sustainable Systems*, **2021**, 5, 2100115 | 5.9 | 2 |
| 374 | Alkali/alkaline-earth metal intercalated g-C3N4 induced charge redistribution and optimized photocatalysis: status and challenges. *JPhys Energy*, **2021**, 3, 032008 | 4.9 | 3 |
| 373 | High visible-light photocatalytic performance of stable lead-free Cs2AgBiBr6 double perovskite nanocrystals. *Journal of Catalysis*, **2021**, 397, 27-35 | 7.3 | 14 |
| 372 | 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 |
| 371 | Photoelectrocatalytic carbon dioxide reduction: Fundamental, advances and challenges. *Nano Materials Science*, **2021**, | 10.2 | 15 |
| 370 | 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 |
| 369 | 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 |
| 368 | The pseudocapacitance mechanism of graphene/CoAl LDH and its derivatives: Are all the modifications beneficial?. *Journal of Energy Chemistry*, **2021**, 52, 218-227 | 12 | 51 |
| 367 | Perovskite Nanocrystals-Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. *Solar Rrl*, **2021**, 5, 2000419 | 7.1 | 8 |
| 366 | Amino-mediated anchoring of FAPbBr3 perovskite quantum dots on silica spheres for efficient visible light photocatalytic NO removal. *Chemical Engineering Journal*, **2021**, 406, 126740 | 14.7 | 11 |
| 365 | 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 |
| 364 | 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 |
| 363 | Bismuth nanoparticles and oxygen vacancies synergistically attired Zn2SnO4 with optimized visible-light-active performance. *Nano Energy*, **2021**, 80, 105415 | 17.1 | 19 |
| 362 | Enhancement of Interfacial Charge Transportation Through Construction of 2D□2D p□ Heterojunctions in Hierarchical 3D CNFs/MoS2/ZnIn2S4 Composites to Enable High-Efficiency Photocatalytic Hydrogen Evolution. *Solar Rrl*, **2021**, 5, 2000722 | 7.1 | 10 |
| 361 | 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 |
| 360 | 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 |
| 359 | Enhanced photocatalytic degradation and H2/H2O2 production performance of S-pCN/WO2.72 S-scheme heterojunction with appropriate surface oxygen vacancies. *Nano Energy*, **2021**, 81, 105671 | 17.1 | 123 |

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| 358 | 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 |
| 357 | Boosting free radical type photocatalysis over Pd/Fe-MOFs by coordination structure engineering. *Catalysis Science and Technology*, **2021**, 11, 5543-5552 | 5.5 | 2 |
| 356 | Photocatalytic reaction mechanisms at a gas□olid interface for typical air pollutant decomposition. *Journal of Materials Chemistry A*, **2021**, 9, 20184-20210 | 13 | 5 |
| 355 | Surface Ligand Environment Boosts the Electrocatalytic Hydrodechlorination Reaction on Palladium Nanoparticles. *ACS Applied Materials & Interfaces*, **2021**, 13, 4072-4083 | 9.5 | 11 |
| 354 | Surface Lattice Oxygen Activation on SrSbO Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. *ACS Applied Materials & Interfaces*, **2021**, 13, 5153-5164 | 9.5 | 9 |
| 353 | 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 |
| 352 | Co and Pt Dual-Single-Atoms with Oxygen-Coordinated Co-O-Pt Dimer Sites for Ultrahigh Photocatalytic Hydrogen Evolution Efficiency. *Advanced Materials*, **2021**, 33, e2003327 | 24 | 42 |
| 351 | Substrate Engineering for CVD Growth of Single Crystal Graphene.. *Small Methods*, **2021**, 5, e2001213 | 12.8 | 14 |
| 350 | Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. *Angewandte Chemie - International Edition*, **2021**, 60, 24605-24611 | 16.4 | 10 |
| 349 | Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. *Chemical Engineering Journal*, **2021**, 417, 129305 | 14.7 | 17 |
| 348 | Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. *Angewandte Chemie*, **2021**, 133, 24810 | 3.6 | 1 |
| 347 | Highly efficient photocatalytic NO removal and in situ DRIFTS investigation on SrSn(OH)6. *Chinese Chemical Letters*, **2021**, | 8.1 | 2 |
| 346 | Anisotropic ZnO nanostructures and their nanocomposites as an advanced platform for photocatalytic remediation. *Journal of Hazardous Materials*, **2021**, 415, 125651 | 12.8 | 13 |
| 345 | 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 |
| 344 | 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 |
| 343 | Synergistic Effect of Cu Single Atoms and Au-Cu Alloy Nanoparticles on TiO for Efficient CO Photoreduction. *ACS Nano*, **2021**, 15, 14453-14464 | 16.7 | 36 |
| 342 | 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 |
| 341 | Crystal-structure dependent reaction pathways in photocatalytic formaldehyde mineralization on BiPO. *Journal of Hazardous Materials*, **2021**, 420, 126633 | 12.8 | 4 |

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| 340 | Efficient visible light photocatalytic NO abatement over SrSn(OH) nanowires loaded with Ag/AgO cocatalyst. *Environmental Research*, **2021**, 201, 111521 | 7.9 | 1 |
| 339 | 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 |
| 338 | 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 |
| 337 | B doped Bi2O2CO3 hierarchical microspheres: Enhanced photocatalytic performance and reaction mechanism for NO removal. *Catalysis Today*, **2021**, 380, 230-236 | 5.3 | 3 |
| 336 | 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 |
| 335 | 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 |
| 334 | Tunable microstructure of □Ni(OH)2 for highly-efficient surface adsorbates activation to promote catalytic NO oxidation. *Chemical Engineering Journal*, **2021**, 425, 130663 | 14.7 | 2 |
| 333 | The structural differences of perovskite ATiO3 (A□=□Ca, Sr) dictate the photocatalytic VOCs mineralization efficiency. *Chemical Engineering Journal*, **2021**, 425, 130613 | 14.7 | 7 |
| 332 | Crystal plane is not the key factor for CO2-to-methane electrosynthesis on reconstructed Cu2O microparticles. *Angewandte Chemie - International Edition*, **2021**, | 16.4 | 10 |
| 331 | 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 |
| 330 | Fluorite-Structured Ferroelectric-/Antiferroelectric-Based Electrostatic Nanocapacitors for Energy Storage Applications. *ACS Applied Energy Materials*, **2020**, 3, 6036-6055 | 6.1 | 15 |
| 329 | Layered double hydroxide nanosheets as efficient photocatalysts for NO removal: Band structure engineering and surface hydroxyl ions activation. *Applied Catalysis B: Environmental*, **2020**, 277, 119200 | 21.8 | 24 |
| 328 | Immobilizing perovskite CsPbBr3 nanocrystals on Black phosphorus nanosheets for boosting charge separation and photocatalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2020**, 277, 119230 | 21.8 | 83 |
| 327 | 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 |
| 326 | 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 |
| 325 | Nature-inspired CaCO3 loading TiO2 composites for efficient and durable photocatalytic mineralization of gaseous toluene. *Science Bulletin*, **2020**, 65, 1626-1634 | 10.6 | 34 |
| 324 | Controlled hydrogenation into defective interlayer bismuth oxychloride via vacancy engineering. *Communications Chemistry*, **2020**, 3, | 6.3 | 12 |
| 323 | 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 |

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| 322 | Oxygen vacancies on the BiOCl surface promoted photocatalytic complete NO oxidation via superoxide radicals. *Chinese Chemical Letters*, **2020**, 31, 2737-2741 | 8.1 | 22 |
| 321 | 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 |
| 320 | Recycling of spent alkaline Zn-Mn batteries directly: Combination with TiO to construct a novel Z-scheme photocatalytic system. *Journal of Hazardous Materials*, **2020**, 400, 123236 | 12.8 | 12 |
| 319 | Mo-doped carbon nitride homojunction to promote oxygen activation for enhanced photocatalytic performance. *Chemical Engineering Journal*, **2020**, 401, 126028 | 14.7 | 10 |
| 318 | Dual Functions of O-Atoms in the g-CN/BON Interface: Oriented Charge Flow In-Plane and Separation within the Interface To Collectively Promote Photocatalytic Molecular Oxygen Activation. *ACS Applied Materials & Interfaces*, **2020**, 12, 34432-34440 | 9.5 | 12 |
| 317 | Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. *ACS Catalysis*, **2020**, 10, 8683-8716 | 13.1 | 29 |
| 316 | 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 |
| 315 | Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. *CheM*, **2020**, 6, 968-984 | 16.2 | 124 |
| 314 | SrTiO3/BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. *Chinese Journal of Catalysis*, **2020**, 41, 710-718 | 11.3 | 24 |
| 313 | 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 |
| 312 | 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 |
| 311 | Hierarchical Pd/MnO2 nanosheet array supported on Ni foam: An advanced electrode for electrocatalytic hydrodechlorination reaction. *Applied Surface Science*, **2020**, 509, 145369 | 6.7 | 13 |
| 310 | 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 |
| 309 | Highly Efficient MnO/AlOOH Composite Catalyst for Indoor Low-Concentration Formaldehyde Removal at Room Temperature. *Inorganic Chemistry*, **2020**, 59, 7335-7343 | 5.1 | 7 |
| 308 | Bismuth metal and semiconductor-based photocatalysts: structure tuning, activity enhancement, and reaction mechanism. *Interface Science and Technology*, **2020**, 31, 349-377 | 2.3 | 1 |
| 307 | 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 |
| 306 | 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 |
| 305 | 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 |

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| 304 | Advances in Regulation Strategies for Electronic Structure and Performance of Two-Dimensional Photocatalytic Materials. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2010010-0 | 3.8 | 3 |
| 303 | 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 |
| 302 | Surface modification to control the secondary pollution of photocatalytic nitric oxide removal over monolithic protonated g-CN/graphene oxide aerogel. *Journal of Hazardous Materials*, **2020**, 397, 122822 | 12.8 | 16 |
| 301 | 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 |
| 300 | Carbon vacancy in C3N4 nanotube: Electronic structure, photocatalysis mechanism and highly enhanced activity. *Applied Catalysis B: Environmental*, **2020**, 262, 118281 | 21.8 | 86 |
| 299 | Construction of advanced 3D Co3S4@PPy nanowire anchored on nickel foam for high-performance electrochemical energy storage. *Electrochimica Acta*, **2020**, 334, 135635 | 6.7 | 9 |
| 298 | 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 |
| 297 | Strong pyrrolic-N-Pd interactions boost the electrocatalytic hydrodechlorination reaction on palladium nanoparticles. *Nanoscale*, **2020**, 12, 843-850 | 7.7 | 10 |
| 296 | Optimizing the rate capability of nickel cobalt phosphide nanowires on graphene oxide by the outer/inter-component synergistic effects. *Journal of Materials Chemistry A*, **2020**, 8, 1697-1708 | 13 | 88 |
| 295 | 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 |
| 294 | 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 |
| 293 | 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 |
| 292 | 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 |
| 291 | Oxygen vacancy engineering of self-doped SnO2□ nanocrystals for ultrasensitive NO2 detection. *Journal of Materials Chemistry C*, **2020**, 8, 487-494 | 7.1 | 52 |
| 290 | BaWO4/g-C3N4 heterostructure with excellent bifunctional photocatalytic performance. *Chemical Engineering Journal*, **2020**, 385, 123833 | 14.7 | 38 |
| 289 | Activating palladium nanoparticles via a Mott-Schottky heterojunction in electrocatalytic hydrodechlorination reaction. *Journal of Hazardous Materials*, **2020**, 389, 121876 | 12.8 | 17 |
| 288 | Insights for optimum cation defects in photocatalysis: A case study of hematite nanostructures. *Applied Catalysis B: Environmental*, **2020**, 264, 118506 | 21.8 | 13 |
| 287 | Defect in reduced graphene oxide tailored selectivity of photocatalytic CO2 reduction on Cs4PbBr6 pervoskite hole-in-microdisk structure. *Nano Energy*, **2020**, 78, 105388 | 17.1 | 33 |

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| 286 | Bi-based photocatalysts for light-driven environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. *EcoMat*, **2020**, 2, e12047 | 9.4 | 35 |
| 285 | Mechanistic insight into the electrocatalytic hydrodechlorination reaction on palladium by a facet effect study. *Journal of Catalysis*, **2020**, 391, 414-423 | 7.3 | 19 |
| 284 | Surface Hydrogen Atoms Promote Oxygen Activation for Solar Light-Driven NO Oxidization over Monolithic □Ni(OH)/Ni Foam. *Environmental Science & Technology*, **2020**, 54, 16221-16230 | 10.3 | 7 |
| 283 | 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 |
| 282 | 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 |
| 281 | Grand Challenges for Catalytic Remediation in Environmental and Energy Applications Toward a Cleaner and Sustainable Future. *Frontiers in Environmental Chemistry*, **2020**, 1, | 3 | 11 |
| 280 | 2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. *Materials Today*, **2020**, 41, 270-303 | 21.8 | 87 |
| 279 | 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 |
| 278 | 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 |
| 277 | Inhibition of the toxic byproduct during photocatalytic NO oxidation via La doping in ZnO. *Chinese Chemical Letters*, **2020**, 31, 751-754 | 8.1 | 18 |
| 276 | Oxygen activation of noble-metal-free g-C3N4/□Ni(OH)2 to control the toxic byproduct of photocatalytic nitric oxide removal. *Chemical Engineering Journal*, **2020**, 382, 123029 | 14.7 | 15 |
| 275 | Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. *Chemical Engineering Journal*, **2020**, 379, 122282 | 14.7 | 161 |
| 274 | Morphologically confined hybridization of tiny CoNi2S4 nanosheets into S, P co-doped graphene leading to enhanced pseudocapacitance and rate capability. *Chemical Engineering Journal*, **2020**, 379, 122305 | 14.7 | 114 |
| 273 | 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 |
| 272 | Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. *Applied Catalysis B: Environmental*, **2020**, 260, 118130 | 21.8 | 75 |
| 271 | Pd-TiO2 Schottky heterojunction catalyst boost the electrocatalytic hydrodechlorination reaction. *Chemical Engineering Journal*, **2020**, 381, 122673 | 14.7 | 39 |
| 270 | The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. *Applied Catalysis B: Environmental*, **2020**, 272, 118977 | 21.8 | 46 |
| 269 | Growth of cobalt-aluminum layered double hydroxide nanosheets on graphene oxide towards high performance supercapacitors: The important role of layer structure. *Applied Surface Science*, **2019**, 496, 143700 | 6.7 | 48 |

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