Fan Dong

List of Publications by Citations

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

#	Paper	IF	Citations
411	Graphitic carbon nitride based nanocomposites: a review. *Nanoscale*, **2015**, 7, 15-37	7.7	1212
410	In situ construction of g-C3N4/g-C3N4 metal-free heterojunction for enhanced visible-light photocatalysis. *ACS Applied Materials & Interfaces*, **2013**, 5, 11392-401	9.5	872
409	Efficient synthesis of polymeric g-C3N4 layered materials as novel efficient visible light driven photocatalysts. *Journal of Materials Chemistry*, **2011**, 21, 15171		825
408	MnO2-based nanostructures for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21380-21423	13	655
407	Bridging the g-C3N4 Interlayers for Enhanced Photocatalysis. *ACS Catalysis*, **2016**, 6, 2462-2472	13.1	624
406	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO32−Doped Bi2O2CO3. *ACS Catalysis*, **2015**, 5, 4094-4103	13.1	596
405	In situ assembly of BiOI@Bi 12 O 17 Cl 2 p - n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. *Applied Catalysis B: Environmental*, **2016**, 199, 75-86	21.8	494
404	Precursor-reforming protocol to 3D mesoporous g-C3N4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. *Nano Energy*, **2017**, 38, 72-81	17.1	441
403	An Advanced Semimetal-Organic Bi Spheres-g-C3N4 Nanohybrid with SPR-Enhanced Visible-Light Photocatalytic Performance for NO Purification. *Environmental Science & Technology*, **2015**, 49, 12432-40	10.3	393
402	Noble Metal-Like Behavior of Plasmonic Bi Particles as a Cocatalyst Deposited on (BiO)2CO3 Microspheres for Efficient Visible Light Photocatalysis. *ACS Catalysis*, **2014**, 4, 4341-4350	13.1	391
401	Synthesis of MoS2/g-C3N4 nanocomposites with enhanced visible-light photocatalytic activity for the removal of nitric oxide (NO). *Optics Express*, **2016**, 24, 10205-12	3.3	374
400	Structural Directed Growth of Ultrathin Parallel Birnessite on βMnO for High-Performance Asymmetric Supercapacitors. *ACS Nano*, **2018**, 12, 1033-1042	16.7	364
399	Immobilization of polymeric g-C3N4 on structured ceramic foam for efficient visible light photocatalytic air purification with real indoor illumination. *Environmental Science & Technology*, **2014**, 48, 10345-53	10.3	355
398	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
397	Enhancement of the Visible Light Photocatalytic Activity of C-Doped TiO2 Nanomaterials Prepared by a Green Synthetic Approach. *Journal of Physical Chemistry C*, **2011**, 115, 13285-13292	3.8	321
396	Bi2O2(OH)(NO3) as a desirable [Bi2O2]2+ layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. *Journal of Materials Chemistry A*, **2015**, 3, 24547-24556	13	310
395	Room temperature synthesis and highly enhanced visible light photocatalytic activity of porous BiOI/BiOCl composites nanoplates microflowers. *Journal of Hazardous Materials*, **2012**, 219-220, 26-34	12.8	296

394	Water-assisted production of honeycomb-like g-C3N4 with ultralong carrier lifetime and outstanding photocatalytic activity. *Nanoscale*, **2015**, 7, 2471-9	7.7	288
393	Enhanced visible light photocatalytic activity and oxidation ability of porous graphene-like g-C3N4 nanosheets via thermal exfoliation. *Applied Surface Science*, **2015**, 358, 393-403	6.7	280
392	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. *Journal of Colloid and Interface Science*, **2013**, 401, 70-9	9.3	260
391	Template-free precursor-surface-etching route to porous, thin g-C3N4 nanosheets for enhancing photocatalytic reduction and oxidation activity. *Journal of Materials Chemistry A*, **2017**, 5, 17452-17463	13	260
390	In situ co-pyrolysis fabrication of CeO2/g-C3N4 n type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. *Journal of Materials Chemistry A*, **2015**, 3, 17120-17129	13	256
389	A semimetal bismuth element as a direct plasmonic photocatalyst. *Chemical Communications*, **2014**, 50, 10386-9	5.8	241
388	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. *Applied Catalysis B: Environmental*, **2017**, 203, 465-474	21.8	241
387	Hybridization of rutile TiO2 (rTiO2) with g-C3N4 quantum dots (CN QDs): An efficient visible-light-driven Z-scheme hybridized photocatalyst. *Applied Catalysis B: Environmental*, **2017**, 202, 611-619	21.8	238
386	One-Step Green Synthetic Approach for Mesoporous C-Doped Titanium Dioxide with Efficient Visible Light Photocatalytic Activity. *Journal of Physical Chemistry C*, **2009**, 113, 16717-16723	3.8	238
385	Characterization and photocatalytic activities of C, N and S co-doped TiO(2) with 1D nanostructure prepared by the nano-confinement effect. *Nanotechnology*, **2008**, 19, 365607	3.4	237
384	Rational design on 3D hierarchical bismuth oxyiodides via in situ self-template phase transformation and phase-junction construction for optimizing photocatalysis against diverse contaminants. *Applied Catalysis B: Environmental*, **2017**, 203, 879-888	21.8	230
383	WO3-based photocatalysts: morphology control, activity enhancement and multifunctional applications. *Environmental Science: Nano*, **2017**, 4, 539-557	7.1	219
382	Single-unit-cell layer established Bi2WO6 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. *Applied Catalysis B: Environmental*, **2017**, 219, 526-537	21.8	217
381	Sol gel preparation and enhanced photocatalytic performance of Cu-doped ZnO nanoparticles. *Applied Surface Science*, **2011**, 258, 1587-1591	6.7	217
380	Facile transformation of low cost thiourea into nitrogen-rich graphitic carbon nitride nanocatalyst with high visible light photocatalytic performance. *Catalysis Science and Technology*, **2012**, 2, 1332	5.5	205
379	Novel in situ N-doped (BiO)2CO3 hierarchical microspheres self-assembled by nanosheets as efficient and durable visible light driven photocatalyst. *Langmuir*, **2012**, 28, 766-73	4	201
378	Defect-Tailoring Mediated Electron-Hole Separation in Single-Unit-Cell Bi O Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. *Advanced Materials*, **2019**, 31, e1807576	24	188
377	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

376	Visible-light-induced charge transfer pathway and photocatalysis mechanism on Bi semimetal@defective BiOBr hierarchical microspheres. *Journal of Catalysis*, **2018**, 357, 41-50	7.3	187
375	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
374	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
373	Bi Cocatalyst/Bi2MoO6 Microspheres Nanohybrid with SPR-Promoted Visible-Light Photocatalysis. *Journal of Physical Chemistry C*, **2016**, 120, 11889-11898	3.8	169
372	Nickel-Manganese Layered Double Hydroxide Nanosheets Supported on Nickel Foam for High-performance Supercapacitor Electrode Materials. *Electrochimica Acta*, **2016**, 194, 179-186	6.7	168
371	The fabrication and characterization of novel carbon doped TiO2 nanotubes, nanowires and nanorods with high visible light photocatalytic activity. *Nanotechnology*, **2009**, 20, 235701	3.4	168
370	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. *Chemical Engineering Journal*, **2020**, 379, 122282	14.7	161
369	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. *Nano Energy*, **2018**, 50, 383-392	17.1	158
368	Efficient C3N4/graphene oxide macroscopic aerogel visible-light photocatalyst. *Journal of Materials Chemistry A*, **2016**, 4, 7823-7829	13	153
367	Visible-Light Photocatalytic Removal of NO in Air over BiOX (X = Cl, Br, I) Single-Crystal Nanoplates Prepared at Room Temperature. *Industrial & Engineering Chemistry Research*, **2013**, 52, 6740-6746	3.9	150
366	Facets and defects cooperatively promote visible light plasmonic photocatalysis with Bi nanowires@BiOCl nanosheets. *Journal of Catalysis*, **2016**, 344, 401-410	7.3	149
365	Role of graphene on the band structure and interfacial interaction of Bi2WO6/graphene composites with enhanced photocatalytic oxidation of NO. *Journal of Materials Chemistry A*, **2014**, 2, 16623-16631	13	147
364	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C3N4: Enhanced photocatalysis and reaction mechanism. *Journal of Catalysis*, **2017**, 352, 351-360	7.3	147
363	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. *Environmental Science & Technology*, **2017**, 51, 10682-10690	10.3	146
362	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
361	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. *Journal of Hazardous Materials*, **2011**, 195, 346-54	12.8	142
360	Directional electron delivery via a vertical channel between g-C3N4 layers promotes photocatalytic efficiency. *Journal of Materials Chemistry A*, **2017**, 5, 9358-9364	13	140
359	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. *Environmental Science & Technology*, **2017**, 51, 7599-7605	10.3	138

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356	Template-free fabrication and growth mechanism of uniform (BiO)2CO3 hierarchical hollow microspheres with outstanding photocatalytic activities under both UV and visible light irradiation. *Journal of Materials Chemistry*, **2011**, 21, 12428		133
355	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
354	Facet-dependent interfacial charge separation and transfer in plasmonic photocatalysts. *Applied Catalysis B: Environmental*, **2018**, 226, 269-277	21.8	127
353	Rational design of octahedron and nanowire CeO2@MnO2 core-shell heterostructures with outstanding rate capability for asymmetric supercapacitors. *Chemical Communications*, **2015**, 51, 14840-3	5.8	126
352	Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. *CheM*, **2020**, 6, 968-984	16.2	124
351	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
350	Controlling interfacial contact and exposed facets for enhancing photocatalysis via 2D-2D heterostructures. *Chemical Communications*, **2015**, 51, 8249-52	5.8	123
349	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
348	Visible light induced electron transfer process over nitrogen doped TiO(2) nanocrystals prepared by oxidation of titanium nitride. *Journal of Hazardous Materials*, **2008**, 157, 57-63	12.8	123
347	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
346	Band structure and visible light photocatalytic activity of multi-type nitrogen doped TiO(2) nanoparticles prepared by thermal decomposition. *Journal of Hazardous Materials*, **2009**, 162, 763-70	12.8	122
345	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
344	Fabrication, modification and application of (BiO)2CO3-based photocatalysts: A review. *Applied Surface Science*, **2016**, 365, 314-335	6.7	119
343	Fe-ions modified mesoporous Bi2WO6 nanosheets with high visible light photocatalytic activity. *Journal of Colloid and Interface Science*, **2012**, 369, 373-80	9.3	114
342	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
341	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

340	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. *Journal of Materials Chemistry A*, **2019**, 7, 3366-3374	13	110
339	Growth of BiOBr nanosheets on C3N4 nanosheets to construct two-dimensional nanojunctions with enhanced photoreactivity for NO removal. *Journal of Colloid and Interface Science*, **2014**, 418, 317-23	9.3	110
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336	Facile synthesis of surface N-doped Bi2O2CO3: Origin of visible light photocatalytic activity and in situ DRIFTS studies. *Journal of Hazardous Materials*, **2016**, 307, 163-72	12.8	109
335	Tunable design of layered CuCo2O4 nanosheets@MnO2 nanoflakes core□shell arrays on Ni foam for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21528-21536	13	108
334	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
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330	Activation of amorphous bismuth oxide via plasmonic Bi metal for efficient visible-light photocatalysis. *Journal of Catalysis*, **2017**, 352, 102-112	7.3	103
329	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
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327	KCl-mediated dual electronic channels in layered g-CN for enhanced visible light photocatalytic NO removal. *Nanoscale*, **2018**, 10, 8066-8074	7.7	101
326	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
325	Synchronously Achieving Plasmonic Bi Metal Deposition and I(-) Doping by Utilizing BiOIO3 as the Self-Sacrificing Template for High-Performance Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 27925-33	9.5	99
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322	Low-cost high-performance asymmetric supercapacitors based on Co2AlO4@MnO2 nanosheets and Fe3O4 nanoflakes. *Journal of Materials Chemistry A*, **2016**, 4, 2096-2104	13	96
321	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
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313	Highly Efficient Bi2O2CO3 Single-Crystal Lamellas with Dominantly Exposed {001} Facets. *Crystal Growth and Design*, **2015**, 15, 534-537	3.5	88
312	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
311	2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. *Materials Today*, **2020**, 41, 270-303	21.8	87
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309	Carbon vacancy in C3N4 nanotube: Electronic structure, photocatalysis mechanism and highly enhanced activity. *Applied Catalysis B: Environmental*, **2020**, 262, 118281	21.8	86
308	Improving g-C3N4 photocatalysis for NOx removal by Ag nanoparticles decoration. *Applied Surface Science*, **2015**, 358, 356-362	6.7	85
307	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
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305	Morphology and crystallinity-controlled synthesis of manganese cobalt oxide/manganese dioxides hierarchical nanostructures for high-performance supercapacitors. *Journal of Power Sources*, **2015**, 296, 86-91	8.9	81

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302	From semiconductors to semimetals: bismuth as a photocatalyst for NO oxidation in air. *Journal of Materials Chemistry A*, **2014**, 2, 11065-11072	13	79
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299	Photocatalytic Oxidative Dehydrogenation of Ethane Using CO2 as a Soft Oxidant over Pd/TiO2 Catalysts to C2H4 and Syngas. *ACS Catalysis*, **2018**, 8, 9280-9286	13.1	77
298	Engineering of three dimensional (3-D) diatom@TiO2@MnO2 composites with enhanced supercapacitor performance. *Electrochimica Acta*, **2016**, 190, 159-167	6.7	76
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291	Morphology-controlled MnO2 modified silicon diatoms for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 10856-10865	13	72
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286	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
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281	New insights into how RGO influences the photocatalytic performance of BiOIO3/RGO nanocomposites under visible and UV irradiation. *Journal of Colloid and Interface Science*, **2015**, 447, 16-24	9.3	64
280	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
279	Efficient visible light photocatalytic oxidation of NO in air with band-gap tailored (BiO)2CO3BiOI solid solutions. *Chemical Engineering Journal*, **2014**, 255, 650-658	14.7	63
278	Synergistic integration of thermocatalysis and photocatalysis on black defective (BiO)2CO3 microspheres. *Journal of Materials Chemistry A*, **2015**, 3, 18466-18474	13	62
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273	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
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