

Chuanjia Jiang

List of Publications by Citations

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79
papers

10,794
citations

50
h-index

82
g-index

82
ext. papers

13,238
ext. citations

8.8
avg, IF

7.24
L-index

#	Paper	IF	Citations
79	g-C ₃ N ₄ -Based Heterostructured Photocatalysts. <i>Advanced Energy Materials</i> , 2018 , 8, 1701503	21.8	1245
78	Ultrathin 2D/2D WO ₃ /g-C ₃ N ₄ step-scheme H ₂ -production photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 556-565	21.8	1114
77	Hierarchical Porous O-Doped g-C N with Enhanced Photocatalytic CO Reduction Activity. <i>Small</i> , 2017 , 13, 1603938	11	732
76	A Review of Direct Z-Scheme Photocatalysts. <i>Small Methods</i> , 2017 , 1, 1700080	12.8	663
75	In Situ Irradiated X-Ray Photoelectron Spectroscopy Investigation on a Direct Z-Scheme TiO ₂ /CdS Composite Film Photocatalyst. <i>Advanced Materials</i> , 2019 , 31, e1802981	24	462
74	Ag ₂ CrO ₄ /g-C ₃ N ₄ /graphene oxide ternary nanocomposite Z-scheme photocatalyst with enhanced CO ₂ reduction activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 368-380	21.8	362
73	First principle investigation of halogen-doped monolayer g-C ₃ N ₄ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 27-34	21.8	306
72	Superb adsorption capacity of hierarchical calcined Ni/Mg/Al layered double hydroxides for Congo red and Cr(VI) ions. <i>Journal of Hazardous Materials</i> , 2017 , 321, 801-811	12.8	305
71	Constructing 2D/2D Fe ₂ O ₃ /g-C ₃ N ₄ Direct Z-Scheme Photocatalysts with Enhanced H ₂ Generation Performance. <i>Solar Rrl</i> , 2018 , 2, 1800006	7.1	300
70	Hollow Co _x Polyhedrons Act as High-Efficiency Cocatalyst for Enhancing the Photocatalytic Hydrogen Generation of g-C ₃ N ₄ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2767-2779	8.3	258
69	The effect of manganese vacancy in birnessite-type MnO ₂ on room-temperature oxidation of formaldehyde in air. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 147-155	21.8	246
68	Room-Temperature Oxidation of Formaldehyde by Layered Manganese Oxide: Effect of Water. <i>Environmental Science & Technology</i> , 2015 , 49, 12372-9	10.3	214
67	Hybrid carbon@TiO ₂ hollow spheres with enhanced photocatalytic CO ₂ reduction activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5020-5029	13	205
66	In situ hydrothermal synthesis of g-C ₃ N ₄ /TiO ₂ heterojunction photocatalysts with high specific surface area for Rhodamine B degradation. <i>Applied Surface Science</i> , 2017 , 411, 400-410	6.7	204
65	Synthesis of hierarchical porous zinc oxide (ZnO) microspheres with highly efficient adsorption of Congo red. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 242-251	9.3	195
64	Room-temperature in situ fabrication of Bi ₂ O ₃ /g-C ₃ N ₄ direct Z-scheme photocatalyst with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2018 , 430, 273-282	6.7	173
63	Direct evidence and enhancement of surface plasmon resonance effect on Ag-loaded TiO ₂ nanotube arrays for photocatalytic CO ₂ reduction. <i>Applied Surface Science</i> , 2018 , 434, 423-432	6.7	145

62	Hierarchical porous C/MnO ₂ composite hollow microspheres with enhanced supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8635-8643	13	139
61	Hierarchical NiS/N-doped carbon composite hollow spheres with excellent supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21257-21265	13	138
60	Synthesis of core-shell TiO ₂ @g-C ₃ N ₄ hollow microspheres for efficient photocatalytic degradation of rhodamine B under visible light. <i>Applied Surface Science</i> , 2018 , 430, 263-272	6.7	137
59	Surface and interface engineering of hierarchical photocatalysts. <i>Applied Surface Science</i> , 2019 , 471, 43-87	8.7	135
58	Mechanistic insight into the enhanced photocatalytic activity of single-atom Pt, Pd or Au-embedded g-C ₃ N ₄ . <i>Applied Surface Science</i> , 2018 , 433, 1175-1183	6.7	134
57	Review on design and evaluation of environmental photocatalysts. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	131
56	Hierarchical flower-like C/NiO composite hollow microspheres and its excellent supercapacitor performance. <i>Journal of Power Sources</i> , 2017 , 359, 371-378	8.9	127
55	Hierarchical flower-like nickel(II) oxide microspheres with high adsorption capacity of Congo red in water. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 688-696	9.3	125
54	Silver nanoparticle behavior, uptake, and toxicity in <i>Caenorhabditis elegans</i> : effects of natural organic matter. <i>Environmental Science & Technology</i> , 2014 , 48, 3486-95	10.3	124
53	Adsorptive removal of an anionic dye Congo red by flower-like hierarchical magnesium oxide (MgO)-graphene oxide composite microspheres. <i>Applied Surface Science</i> , 2018 , 435, 1136-1142	6.7	115
52	ZnO hierarchical microsphere for enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 622-632	5.7	113
51	Enhanced visible-light photocatalytic H ₂ -generation activity of carbon/g-CN nanocomposites prepared by two-step thermal treatment. <i>Dalton Transactions</i> , 2017 , 46, 10611-10619	4.3	111
50	Formaldehyde and volatile organic compound (VOC) emissions from particleboard: Identification of odorous compounds and effects of heat treatment. <i>Building and Environment</i> , 2017 , 117, 118-126	6.5	109
49	Review on noble metal-based catalysts for formaldehyde oxidation at room temperature. <i>Applied Surface Science</i> , 2019 , 475, 237-255	6.7	103
48	Few-Layered Graphene-like Boron Nitride: A Highly Efficient Adsorbent for Indoor Formaldehyde Removal. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 20-25	11	101
47	Hierarchical honeycomb-like Pt/NiFe-LDH/rGO nanocomposite with excellent formaldehyde decomposition activity. <i>Chemical Engineering Journal</i> , 2019 , 365, 378-388	14.7	94
46	Hierarchical C/NiO-ZnO nanocomposite fibers with enhanced adsorption capacity for Congo red. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 736-745	9.3	94
45	Fabrication of flower-like direct Z-scheme Bi ₂ O ₃ /g-C ₃ N ₄ photocatalyst with enhanced visible light photoactivity for Rhodamine B degradation. <i>Applied Surface Science</i> , 2018 , 436, 162-171	6.7	90

44	Co ₃ O ₄ nanorod-supported Pt with enhanced performance for catalytic HCHO oxidation at room temperature. <i>Applied Surface Science</i> , 2017 , 404, 426-434	6.7	88
43	Effects of Natural Organic Matter Properties on the Dissolution Kinetics of Zinc Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2015 , 49, 11476-84	10.3	80
42	Flexible nickel foam decorated with Pt/NiO nanoflakes with oxygen vacancies for enhanced catalytic formaldehyde oxidation at room temperature. <i>Environmental Science: Nano</i> , 2017 , 4, 2215-2224	7.1	73
41	Fabrication of hierarchical porous ZnO-Al ₂ O ₃ microspheres with enhanced adsorption performance. <i>Applied Surface Science</i> , 2017 , 426, 360-368	6.7	69
40	Construction of Z-scheme Ag ₂ CO ₃ /N-doped graphene photocatalysts with enhanced visible-light photocatalytic activity by tuning the nitrogen species. <i>Applied Surface Science</i> , 2017 , 396, 1368-1374	6.7	68
39	Effect of calcination temperature on formaldehyde oxidation performance of Pt/TiO ₂ nanofiber composite at room temperature. <i>Applied Surface Science</i> , 2017 , 426, 333-341	6.7	64
38	The effects of Mn loading on the structure and ozone decomposition activity of MnOx supported on activated carbon. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 335-341	11.3	63
37	Ultrathin Bi ₂ WO ₆ nanosheet decorated with Pt nanoparticles for efficient formaldehyde removal at room temperature. <i>Applied Surface Science</i> , 2018 , 441, 429-437	6.7	61
36	Pt/C@MnO ₂ composite hierarchical hollow microspheres for catalytic formaldehyde decomposition at room temperature. <i>Applied Surface Science</i> , 2019 , 466, 301-308	6.7	57
35	Fabrication of hierarchical porous ZnO/NiO hollow microspheres for adsorptive removal of Congo red. <i>Applied Surface Science</i> , 2018 , 435, 1002-1010	6.7	56
34	Enhanced room-temperature HCHO decomposition activity of highly-dispersed Pt/Al ₂ O ₃ hierarchical microspheres with exposed {110} facets. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 197-205	6.3	54
33	Chestnut husk-like nickel cobaltite hollow microspheres for the adsorption of Congo red. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1041-1051	5.7	53
32	First-principles investigation of Cu-doped ZnS with enhanced photocatalytic hydrogen production activity. <i>Chemical Physics Letters</i> , 2017 , 668, 1-6	2.5	51
31	Catalytic decomposition and mechanism of formaldehyde over Pt-AlO molecular sieves at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6957-6963	3.6	50
30	Effects of hierarchical structure on the performance of tin oxide-supported platinum catalyst for room-temperature formaldehyde oxidation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 199-206	11.3	48
29	Hierarchical Pt/MnO ₂ /Ni(OH) ₂ Hybrid Nanoflakes with Enhanced Room-Temperature Formaldehyde Oxidation Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12481-12488	8.3	48
28	Direct in situ measurement of dissolved zinc in the presence of zinc oxide nanoparticles using anodic stripping voltammetry. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 2536-44	4.3	39
27	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019 , 6, 1283-1302	7.1	38

26	Intracellular trafficking pathways in silver nanoparticle uptake and toxicity in <i>Caenorhabditis elegans</i> . <i>Nanotoxicology</i> , 2016 , 10, 831-5	5.3	38
25	Relative Contributions of Copper Oxide Nanoparticles and Dissolved Copper to Cu Uptake Kinetics of Gulf Killifish (<i>Fundulus grandis</i>) Embryos. <i>Environmental Science & Technology</i> , 2017 , 51, 1395-1404	10.3	34
24	Environmental transformation of natural and engineered carbon nanoparticles and implications for the fate of organic contaminants. <i>Environmental Science: Nano</i> , 2018 , 5, 2500-2518	7.1	34
23	Pollution level and seasonal variations of carbonyl compounds, aromatic hydrocarbons and TVOC in a furniture mall in Beijing, China. <i>Building and Environment</i> , 2013 , 69, 227-232	6.5	33
22	Facile Synthesis of Activated Carbon-Supported Porous Manganese Oxide via in situ Reduction of Permanganate for Ozone Decomposition. <i>Ozone: Science and Engineering</i> , 2013 , 35, 308-315	2.4	29
21	Hierarchical NiMn ₂ O ₄ /rGO composite nanosheets decorated with Pt for low-temperature formaldehyde oxidation. <i>Environmental Science: Nano</i> , 2020 , 7, 198-209	7.1	27
20	Influence of light wavelength on the photoactivity, physicochemical transformation, and fate of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , 2018 , 5, 2590-2603	7.1	22
19	Facet-dependent evolution of surface defects in anatase TiO ₂ by thermal treatment: implications for environmental applications of photocatalysis. <i>Environmental Science: Nano</i> , 2019 , 6, 1740-1753	7.1	21
18	Enhanced Hydrolysis of -Nitrophenyl Phosphate by Iron (Hydr)oxide Nanoparticles: Roles of Exposed Facets. <i>Environmental Science & Technology</i> , 2020 , 54, 8658-8667	10.3	20
17	Facet-dependent generation of superoxide radical anions by ZnO nanomaterials under simulated solar light. <i>Environmental Science: Nano</i> , 2018 , 5, 2864-2875	7.1	17
16	A Facile Synthesis of Ternary Nickel Iron Sulfide Nanospheres as Counter Electrode in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2018 , 24, 19032-19037	4.8	16
15	Facile synthesis of three-dimensional Mn ₃ O ₄ hierarchical microstructures for efficient catalytic phenol oxidation with peroxymonosulfate. <i>Applied Surface Science</i> , 2019 , 495, 143568	6.7	13
14	Photochemical decomposition of 1H,1H,2H,2H-perfluorooctane sulfonate (6:2FOTS) induced by ferric ions. <i>Journal of Environmental Sciences</i> , 2017 , 51, 120-127	6.4	12
13	FcR11B receptor-mediated apoptosis in macrophages through interplay of cadmium sulfide nanomaterials and protein corona. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 164, 140-148	7	10
12	In situ synthesis of ternary nickel iron selenides with high performance applied in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2019 , 492, 520-526	6.7	9
11	Indoor carbonyl compounds in an academic building in Beijing, China: concentrations and influencing factors. <i>Frontiers of Environmental Science and Engineering</i> , 2012 , 6, 184-194	5.8	9
10	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. <i>Environmental Science: Nano</i> , 2019 , 6, 136-145	7.1	8
9	Principle and surface science of photocatalysis. <i>Interface Science and Technology</i> , 2020 , 31, 1-38	2.3	7

8	Enhanced hydrolysis of 1,1,2,2-tetrachloroethane by multi-walled carbon nanotube/TiO nanocomposites: The synergistic effect. <i>Environmental Pollution</i> , 2019 , 255, 113211	9.3	3
7	Substoichiometric titanium oxide TiO exhibits greater efficiency in enhancing hydrolysis of 1,1,2,2-tetrachloroethane than TiO nanomaterials. <i>Science of the Total Environment</i> , 2021 , 774, 145705	10.2	3
6	Effects of Silver Nanoparticles on Development, Behavior, and Mitochondrial Function are Altered by Genetic Defects in Mitochondrial Dynamics.. <i>Environmental Science & Technology</i> , 2022 , 56, 11113-11124	10.3	2
5	Sulfide and ferrous iron preferentially target specific surface O-functional groups of graphene oxide: implications for accumulation of contaminants. <i>Environmental Science: Nano</i> , 2020 , 7, 462-471	7.1	2
4	Nanostructured manganese oxides exhibit facet-dependent oxidation capabilities. <i>Environmental Science: Nano</i> , 2020 , 7, 3840-3848	7.1	2
3	Design and fabrication of direct Z-scheme photocatalysts. <i>Interface Science and Technology</i> , 2020 , 31, 193-229	2.3	1
2	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Room-Temperature Formaldehyde Oxidation. <i>Advanced Functional Materials</i> , 2110423	15.6	1
1	Key factors controlling colloids-bulk soil distribution of polybrominated diphenyl ethers (PBDEs) at an e-waste recycling site: Implications for PBDE mobility in subsurface environment.. <i>Science of the Total Environment</i> , 2022 , 819, 153080	10.2	0