Xiaofeng Xie

List of Publications by Citations

59 papers	1,376 citations	20 h-index	35 g-index
60 ext. papers	1,718 ext. citations	8.4 avg, IF	5.02 L-index

#	Paper	IF	Citations
59	Characterization of a manganese dioxide/carbon nanotube composite fabricated using an in situ coating method. *Carbon*, **2007**, 45, 2365-2373	10.4	343
58	Efficient adsorption and sustainable degradation of gaseous acetaldehyde and o-xylene using rGO-TiO2 photocatalyst. *Chemical Engineering Journal*, **2018**, 349, 708-718	14.7	67
57	Transparent heaters based on highly stable Cu nanowire films. *Nano Research*, **2016**, 9, 3924-3936	10	59
56	Filtration efficiency and loading characteristics of PM2.5 through composite filter media consisting of commercial HVAC electret media and nanofiber layer. *Separation and Purification Technology*, **2018**, 198, 137-145	8.3	56
55	Thermodynamic study on aniline adsorption on chemical modified multi-walled carbon nanotubes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 308, 54-59	5.1	56
54	Functionalization of multi-walled carbon nanotubes grafted with self-generated functional groups and their polyamide 6 composites. *Carbon*, **2010**, 48, 721-729	10.4	46
53	Enhanced photocatalytic performance of Ag@TiO2 for the gaseous acetaldehyde photodegradation under fluorescent lamp. *Chemical Engineering Journal*, **2018**, 341, 83-92	14.7	45
52	Visible-Light Upconversion Carbon Quantum Dots Decorated TiO2 for the Photodegradation of Flowing Gaseous Acetaldehyde. *Applied Surface Science*, **2018**, 440, 266-274	6.7	42
51	Defect Chemistry of Er3+-Doped TiO2 and Its Photocatalytic Activity for the Degradation of Flowing Gas-Phase VOCs. *Journal of Physical Chemistry C*, **2019**, 123, 12321-12334	3.8	39
50	Synthesis of Metal/Bimetal Nanowires and Their Applications as Flexible Transparent Electrodes. *Small*, **2015**, 11, 4737-44	11	36
49	Effect of crystal structure on adsorption behaviors of nanosized TiO2 for heavy-metal cations. *Current Applied Physics*, **2009**, 9, S185-S188	2.6	35
48	Beneficiation of Cassiterite Fines from a Tin Tailing Slime by Froth Flotation. *Separation Science and Technology*, **2014**, 49, 458-463	2.5	28
47	Cu-Ni nanowire-based TiO 2 hybrid for the dynamic photodegradation of acetaldehyde gas pollutant under visible light. *Applied Surface Science*, **2017**, 408, 117-124	6.7	26
46	Construction of nanoporous gold/g-C3N4 heterostructure for electrochemical supercapacitor. *Electrochimica Acta*, **2019**, 294, 260-267	6.7	26
45	Effect of annealing atmosphere on the thermal coarsening of nanoporous gold films. *Applied Surface Science*, **2015**, 355, 133-138	6.7	24
44	Pore-size tuning and optical performances of nanoporous gold films. *Microporous and Mesoporous Materials*, **2015**, 202, 50-56	5.3	24
43	Carbon quantum dots-TiO nanocomposite as an efficient photocatalyst for the photodegradation of aromatic ring-containing mixed VOCs: An experimental and DFT studies of adsorption and electronic structure of the interface. *Journal of Hazardous Materials*, **2021**, 401, 123402	12.8	24

42	Reversible redox behavior of Fe2O3/TiO2 composites in the gaseous photodegradation process. *Ceramics International*, **2019**, 45, 13187-13192	5.1	23
41	Effects of pore size and residual Ag on electrocatalytic properties of nanoporous gold films prepared by pulse electrochemical dealloying. *Electrochimica Acta*, **2015**, 153, 552-558	6.7	22
40	Deposition-rate dependence of orientation growth and crystallization of Ti thin films prepared by magnetron sputtering. *Thin Solid Films*, **2015**, 574, 71-77	2.2	20
39	TiO2/TaS2 with superior charge separation and adsorptive capacity to the photodegradation of gaseous acetaldehyde. *Chemical Engineering Journal*, **2020**, 379, 122395	14.7	20
38	Photocatalytic properties of novel two-dimensional B4C3/g-C3N4 van der Waals heterojunction with moderate bandgap and high carrier mobility: A theoretical study. *Applied Catalysis B: Environmental*, **2020**, 278, 119310	21.8	18
37	Adsorption mechanism of typical oxygen, sulfur, and chlorine containing VOCs on TiO2 (0 0 1) surface: First principle calculations. *Applied Surface Science*, **2019**, 471, 222-230	6.7	18
36	Photocatalytic degradation of gaseous VOCs over Tm3+-TiO2: Revealing the activity enhancement mechanism and different reaction paths. *Chemical Engineering Journal*, **2020**, 395, 125078	14.7	18
35	Polarity on adsorption and photocatalytic performances of N-GR/TiO2 towards gaseous acetaldehyde and ethylene. *Applied Surface Science*, **2019**, 485, 255-265	6.7	17
34	Revealing adsorption and the photodegradation mechanism of gas phase o-xylene on carbon quantum dots modified TiO nanoparticles. *Journal of Hazardous Materials*, **2020**, 386, 121962	12.8	16
33	Surface adsorption configurations of H3PO4 modified TiO2 and its influence on the photodegradation intermediates of gaseous o-xylene. *Chemical Engineering Journal*, **2020**, 393, 124723	14.7	15
32	The effect of electro-degradation processing on microstructure of polyaniline/single-wall carbon nanotube composite films. *Carbon*, **2008**, 46, 1145-1151	10.4	15
31	Facile synthesis of gamma-MnS hierarchical nanostructures with high photoluminescence. *Ceramics International*, **2012**, 38, 875-881	5.1	14
30	Difference of photodegradation characteristics between single and mixed VOC pollutants under simulated sunlight irradiation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 384, 112029	4.7	12
29	Deactivation and activation mechanism of TiO2 and rGO/Er3+-TiO2 during flowing gaseous VOCs photodegradation. *Applied Catalysis B: Environmental*, **2021**, 284, 119813	21.8	11
28	In-situ preparation of Ti3C2/Ti3+-TiO2 composites with mosaic structures for the adsorption and Photo-degradation of flowing acetaldehyde under visible light. *Applied Surface Science*, **2020**, 531, 147101	6.7	10
27	New insights into the synergistic effect of active radicals and adsorptive ability on the photodegradation of gaseous acetaldehyde over reduced graphene Oxide/P25 composite. *Journal of Hazardous Materials*, **2019**, 380, 120814	12.8	10
26	Effect of Titanium Dioxide on Secondary Organic Aerosol Formation. *Environmental Science & Technology*, **2018**, 52, 11612-11620	10.3	10
25	Enhanced photoelectrochemical performance of planar p-Silicon by APCVD deposition of surface mesoporous hematite coating. *Applied Catalysis B: Environmental*, **2017**, 200, 372-377	21.8	9

24	Facile fabrication of nanoporous gold with bimodal pore structure. *Materials Letters*, **2016**, 184, 282-285	3.3	9
23	Band bending of TiO induced by O-xylene and acetaldehyde adsorption and its effect on the generation of active radicals. *Journal of Colloid and Interface Science*, **2020**, 572, 374-383	9.3	8
22	Microstructure and electrocatalytic performance of nanoporous gold foils decorated by TiO2 coatings. *Surface and Coatings Technology*, **2016**, 286, 113-118	4.4	8
21	Ultrastable photodegradation of formaldehyde under fluorescent lamp irradiation by anti-reflection structure SnS2/TiO2 composite. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 364, 725-731	4.7	8
20	Photocatalytic oxidation mechanism of Gas-Phase VOCs: Unveiling the role of holes, □H and □2□ *Chemical Engineering Journal*, **2022**, 430, 132766	14.7	8
19	A novel ternary mica-titania@rGO composite pearlescent pigment for the photocatalytic degradation of gaseous acetaldehyde. *Chemical Engineering Journal*, **2020**, 396, 125312	14.7	8
18	Cesium-doped graphene grown in situ with ultra-small TiO2 nanoparticles for high-performance lithium-ion batteries. *New Journal of Chemistry*, **2017**, 41, 7938-7946	3.6	7
17	Beneficiation of Cassiterite and Iron Minerals From a Tin Tailing with Magnetizing Roasting-Magnetic Separation Process. *Separation Science and Technology*, **2013**, 48, 1426-1432	2.5	7
16	Assessing the adsorption and photocatalytic activity of TiO2 nanoparticles for the gas phase acetaldehyde: A computational and experimental study. *Journal of Alloys and Compounds*, **2020**, 819, 153055	5.7	7
15	Improved photocatalytic oxidation performance of gaseous acetaldehyde by ternary g-CN/Ag-TiO composites under visible light. *Journal of Colloid and Interface Science*, **2021**, 602, 699-711	9.3	7
14	Anti-oxidative microstructure design of ultra-stable N-TiO2 composite for the gaseous photodegradation reactions. *Chemical Engineering Journal*, **2021**, 408, 127257	14.7	6
13	Photocatalytic Oxidation of SO by TiO: Aerosol Formation and the Key Role of Gaseous Reactive Oxygen Species. *Environmental Science & Technology*, **2021**, 55, 9784-9793	10.3	6
12	Rare-earth single atoms decorated 2D-TiO nanosheets for the photodegradation of gaseous O-xylene. *Journal of Colloid and Interface Science*, **2022**, 605, 674-684	9.3	6
11	Collectorless flotation of marmatite with pine oil. *Rare Metals*, **2017**, 36, 147-154	5.5	5
10	Characteristics and Corrosion Behavior of Pure Titanium Subjected to Surface Mechanical Attrition. *Jom*, **2017**, 69, 1844-1847	2.1	5
9	Design of a rain-shower based cleaning system for simultaneous PM2.5 removal and CO2 capture of ambient air. *Separation and Purification Technology*, **2020**, 237, 116389	8.3	5
8	Adsorption and Photodegradation of Acetaldehyde and Ethylene on TiO2 (001) Surface: Experimental and First Principle Studies. *Catalysis Letters*, **2019**, 149, 2728-2738	2.8	4
7	The Interface Structure of High-Temperature Oxidation Resistant Aluminum-Based Coatings on Titanium Billet Surface. *Jom*, **2017**, 69, 1848-1852	2.1	4

List of Publications

6	Atomically Dispersed Pt on TiO2 Nanosheets for Catalytic Gaseous Acetaldehyde Abatement. *ACS Applied Nano Materials*, **2021**, 4, 3799-3810	5.6	3
5	One-pot Synthesis of the MIL-100 (Fe) MOF/MOX Homojunctions with Tunable Hierarchical Pores for the Photocatalytic Removal of BTXS. *Applied Catalysis B: Environmental*, **2021**, 303, 120885	21.8	1
4	Wastewater Treatment in Mineral Processing of Non-Ferrous Metal Resources: A Review. *Water (Switzerland)*, **2022**, 14, 726	3	0
3	Adsorption Modification of Carboxylated Carbon Nanotubes with Aniline in Aqueous Solution. *Chemistry Letters*, **2006**, 35, 624-625	1.7	
2	Response to the commentary on Reversible redox behavior of Fe2O3/TiO2 composites in the gaseous photodegradation process[https://doi.org/10.1016/j.ceramint.2019.03.255). *Ceramics International*, **2020**, 46, 14312-14313	5.1	
1	Surface modification of 2-D Ti3C2Tx for the effective capture and elimination of acetaldehyde as a co-catalyst: A theoretical and experimental study. *Surfaces and Interfaces*, **2021**, 25, 101284	4.1	