

Xiaofeng Xie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Photocatalytic oxidation mechanism of Gas-Phase VOCs: Unveiling the role of holes, OH and O_2 . <i>Chemical Engineering Journal</i> , 2022 , 430, 132766	14.7	8
58	Rare-earth single atoms decorated 2D-TiO nanosheets for the photodegradation of gaseous O-xylene. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 674-684	9.3	6
57	Wastewater Treatment in Mineral Processing of Non-Ferrous Metal Resources: A Review. <i>Water (Switzerland)</i> , 2022 , 14, 726	3	0
56	One-pot Synthesis of the MIL-100 (Fe) MOF/MOX Homojunctions with Tunable Hierarchical Pores for the Photocatalytic Removal of BTXS. <i>Applied Catalysis B: Environmental</i> , 2021 , 303, 120885	21.8	1
55	Atomically Dispersed Pt on TiO ₂ Nanosheets for Catalytic Gaseous Acetaldehyde Abatement. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3799-3810	5.6	3
54	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. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123402	12.8	24
53	Anti-oxidative microstructure design of ultra-stable N-TiO ₂ composite for the gaseous photodegradation reactions. <i>Chemical Engineering Journal</i> , 2021 , 408, 127257	14.7	6
52	Deactivation and activation mechanism of TiO ₂ and rGO/Er ³⁺ -TiO ₂ during flowing gaseous VOCs photodegradation. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119813	21.8	11
51	Photocatalytic Oxidation of SO by TiO: Aerosol Formation and the Key Role of Gaseous Reactive Oxygen Species. <i>Environmental Science & Technology</i> , 2021 , 55, 9784-9793	10.3	6
50	Surface modification of 2-D Ti ₃ C ₂ T _x for the effective capture and elimination of acetaldehyde as a co-catalyst: A theoretical and experimental study. <i>Surfaces and Interfaces</i> , 2021 , 25, 101284	4.1	
49	Improved photocatalytic oxidation performance of gaseous acetaldehyde by ternary g-CN/Ag-TiO composites under visible light. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 699-711	9.3	7
48	Photocatalytic properties of novel two-dimensional B ₄ C ₃ /g-C ₃ N ₄ van der Waals heterojunction with moderate bandgap and high carrier mobility: A theoretical study. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119310	21.8	18
47	In-situ preparation of Ti ₃ C ₂ /Ti ³⁺ -TiO ₂ composites with mosaic structures for the adsorption and Photo-degradation of flowing acetaldehyde under visible light. <i>Applied Surface Science</i> , 2020 , 531, 147101	6.7	10
46	Band bending of TiO induced by O-xylene and acetaldehyde adsorption and its effect on the generation of active radicals. <i>Journal of Colloid and Interface Science</i> , 2020 , 572, 374-383	9.3	8
45	Surface adsorption configurations of H ₃ PO ₄ modified TiO ₂ and its influence on the photodegradation intermediates of gaseous o-xylene. <i>Chemical Engineering Journal</i> , 2020 , 393, 124723	14.7	15
44	A novel ternary mica-titania@rGO composite pearlescent pigment for the photocatalytic degradation of gaseous acetaldehyde. <i>Chemical Engineering Journal</i> , 2020 , 396, 125312	14.7	8
43	Revealing adsorption and the photodegradation mechanism of gas phase o-xylene on carbon quantum dots modified TiO nanoparticles. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121962	12.8	16

42	Assessing the adsorption and photocatalytic activity of TiO ₂ nanoparticles for the gas phase acetaldehyde: A computational and experimental study. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153055	5.7	7
41	Response to the commentary on "Reversible redox behavior of Fe ₂ O ₃ /TiO ₂ composites in the gaseous photodegradation process" (https://doi.org/10.1016/j.ceramint.2019.03.255). <i>Ceramics International</i> , 2020 , 46, 14312-14313	5.1	
40	Design of a rain-shower based cleaning system for simultaneous PM _{2.5} removal and CO ₂ capture of ambient air. <i>Separation and Purification Technology</i> , 2020 , 237, 116389	8.3	5
39	TiO ₂ /TaS ₂ with superior charge separation and adsorptive capacity to the photodegradation of gaseous acetaldehyde. <i>Chemical Engineering Journal</i> , 2020 , 379, 122395	14.7	20
38	Photocatalytic degradation of gaseous VOCs over Tm ³⁺ -TiO ₂ : Revealing the activity enhancement mechanism and different reaction paths. <i>Chemical Engineering Journal</i> , 2020 , 395, 125078	14.7	18
37	Adsorption and Photodegradation of Acetaldehyde and Ethylene on TiO ₂ (001) Surface: Experimental and First Principle Studies. <i>Catalysis Letters</i> , 2019 , 149, 2728-2738	2.8	4
36	Polarity on adsorption and photocatalytic performances of N-GR/TiO ₂ towards gaseous acetaldehyde and ethylene. <i>Applied Surface Science</i> , 2019 , 485, 255-265	6.7	17
35	Defect Chemistry of Er ³⁺ -Doped TiO ₂ and Its Photocatalytic Activity for the Degradation of Flowing Gas-Phase VOCs. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12321-12334	3.8	39
34	Reversible redox behavior of Fe ₂ O ₃ /TiO ₂ composites in the gaseous photodegradation process. <i>Ceramics International</i> , 2019 , 45, 13187-13192	5.1	23
33	Difference of photodegradation characteristics between single and mixed VOC pollutants under simulated sunlight irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 384, 112029	4.7	12
32	New insights into the synergistic effect of active radicals and adsorptive ability on the photodegradation of gaseous acetaldehyde over reduced graphene Oxide/P25 composite. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120814	12.8	10
31	Construction of nanoporous gold/g-C ₃ N ₄ heterostructure for electrochemical supercapacitor. <i>Electrochimica Acta</i> , 2019 , 294, 260-267	6.7	26
30	Adsorption mechanism of typical oxygen, sulfur, and chlorine containing VOCs on TiO ₂ (0 0 1) surface: First principle calculations. <i>Applied Surface Science</i> , 2019 , 471, 222-230	6.7	18
29	Enhanced photocatalytic performance of Ag@TiO ₂ for the gaseous acetaldehyde photodegradation under fluorescent lamp. <i>Chemical Engineering Journal</i> , 2018 , 341, 83-92	14.7	45
28	Visible-Light Upconversion Carbon Quantum Dots Decorated TiO ₂ for the Photodegradation of Flowing Gaseous Acetaldehyde. <i>Applied Surface Science</i> , 2018 , 440, 266-274	6.7	42
27	Filtration efficiency and loading characteristics of PM _{2.5} through composite filter media consisting of commercial HVAC electret media and nanofiber layer. <i>Separation and Purification Technology</i> , 2018 , 198, 137-145	8.3	56
26	Ultrastable photodegradation of formaldehyde under fluorescent lamp irradiation by anti-reflection structure SnS ₂ /TiO ₂ composite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 725-731	4.7	8
25	Effect of Titanium Dioxide on Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2018 , 52, 11612-11620	10.3	10

24	Efficient adsorption and sustainable degradation of gaseous acetaldehyde and o-xylene using rGO-TiO ₂ photocatalyst. <i>Chemical Engineering Journal</i> , 2018 , 349, 708-718	14.7	67
23	Collectorless flotation of marmatite with pine oil. <i>Rare Metals</i> , 2017 , 36, 147-154	5.5	5
22	Cu-Ni nanowire-based TiO ₂ hybrid for the dynamic photodegradation of acetaldehyde gas pollutant under visible light. <i>Applied Surface Science</i> , 2017 , 408, 117-124	6.7	26
21	The Interface Structure of High-Temperature Oxidation-Resistant Aluminum-Based Coatings on Titanium Billet Surface. <i>Jom</i> , 2017 , 69, 1848-1852	2.1	4
20	Characteristics and Corrosion Behavior of Pure Titanium Subjected to Surface Mechanical Attrition. <i>Jom</i> , 2017 , 69, 1844-1847	2.1	5
19	Cesium-doped graphene grown in situ with ultra-small TiO ₂ nanoparticles for high-performance lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 7938-7946	3.6	7
18	Enhanced photoelectrochemical performance of planar p-Silicon by APCVD deposition of surface mesoporous hematite coating. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 372-377	21.8	9
17	Transparent heaters based on highly stable Cu nanowire films. <i>Nano Research</i> , 2016 , 9, 3924-3936	10	59
16	Microstructure and electrocatalytic performance of nanoporous gold foils decorated by TiO ₂ coatings. <i>Surface and Coatings Technology</i> , 2016 , 286, 113-118	4.4	8
15	Facile fabrication of nanoporous gold with bimodal pore structure. <i>Materials Letters</i> , 2016 , 184, 282-285	3.3	9
14	Effect of annealing atmosphere on the thermal coarsening of nanoporous gold films. <i>Applied Surface Science</i> , 2015 , 355, 133-138	6.7	24
13	Effects of pore size and residual Ag on electrocatalytic properties of nanoporous gold films prepared by pulse electrochemical dealloying. <i>Electrochimica Acta</i> , 2015 , 153, 552-558	6.7	22
12	Deposition-rate dependence of orientation growth and crystallization of Ti thin films prepared by magnetron sputtering. <i>Thin Solid Films</i> , 2015 , 574, 71-77	2.2	20
11	Pore-size tuning and optical performances of nanoporous gold films. <i>Microporous and Mesoporous Materials</i> , 2015 , 202, 50-56	5.3	24
10	Synthesis of Metal/Bimetal Nanowires and Their Applications as Flexible Transparent Electrodes. <i>Small</i> , 2015 , 11, 4737-44	11	36
9	Beneficiation of Cassiterite Fines from a Tin Tailing Slime by Froth Flotation. <i>Separation Science and Technology</i> , 2014 , 49, 458-463	2.5	28
8	Beneficiation of Cassiterite and Iron Minerals From a Tin Tailing with Magnetizing Roasting-Magnetic Separation Process. <i>Separation Science and Technology</i> , 2013 , 48, 1426-1432	2.5	7
7	Facile synthesis of gamma-MnS hierarchical nanostructures with high photoluminescence. <i>Ceramics International</i> , 2012 , 38, 875-881	5.1	14

6	Functionalization of multi-walled carbon nanotubes grafted with self-generated functional groups and their polyamide 6 composites. <i>Carbon</i> , 2010 , 48, 721-729	10.4	46
5	Effect of crystal structure on adsorption behaviors of nanosized TiO ₂ for heavy-metal cations. <i>Current Applied Physics</i> , 2009 , 9, S185-S188	2.6	35
4	The effect of electro-degradation processing on microstructure of polyaniline/single-wall carbon nanotube composite films. <i>Carbon</i> , 2008 , 46, 1145-1151	10.4	15
3	Characterization of a manganese dioxide/carbon nanotube composite fabricated using an in situ coating method. <i>Carbon</i> , 2007 , 45, 2365-2373	10.4	343
2	Thermodynamic study on aniline adsorption on chemical modified multi-walled carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 308, 54-59	5.1	56
1	Adsorption Modification of Carboxylated Carbon Nanotubes with Aniline in Aqueous Solution. <i>Chemistry Letters</i> , 2006 , 35, 624-625	1.7	