

# Kaisheng Xia

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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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.

45  
papers

1,782  
citations

20  
h-index

42  
g-index

45  
ext. papers

2,051  
ext. citations

7.8  
avg. IF

4.89  
L-index

#	Paper	IF	Citations
45	Doping phosphorus into Co <sub>3</sub> O <sub>4</sub> : A new promising pathway to boost the catalytic activity for peroxymonosulfate activation. <i>Applied Surface Science</i> , <b>2022</b> , 574, 151632	6.7	1
44	Fabricating yolk-shell structured CoTiO <sub>3</sub> @Co <sub>3</sub> O <sub>4</sub> nanoreactor via a simple self-template method toward high-performance peroxymonosulfate activation and organic pollutant degradation. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147787	6.7	25
43	Understanding the electronic metal-support interactions of the supported Ni cluster for the catalytic hydrogenation of ethylene. <i>Molecular Catalysis</i> , <b>2021</b> , 511, 111731	3.3	0
42	Tuning the pore structure and surface chemistry of porous graphene for CO <sub>2</sub> capture and H <sub>2</sub> storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 622, 126640	5.1	3
41	Direct epitaxial growth of nickel phosphide nanosheets on nickel foam as self-support electrode for efficient non-enzymatic glucose sensing. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
40	Acid-assisted synthesis of nitrogen-deficient mesoporous graphitic carbon nitride for hydrogen storage. <i>Materials Letters</i> , <b>2021</b> , 301, 130347	3.3	0
39	Composition-engineered LaCoO <sub>3</sub> -based monolithic catalysts for easily operational and robust peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130574	14.7	7
38	Postsynthetic incorporation of catalytically inert Al into Co <sub>3</sub> O <sub>4</sub> for peroxymonosulfate activation and insight into the boosted catalytic performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131292	14.7	1
37	Chemical activation of carbon materials for supercapacitors: Elucidating the effect of spatial characteristics of the precursors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 597, 124762	5.1	2
36	Unique electron reservoir properties of manganese in Mn(II)-doped CeO <sub>2</sub> for reversible electron transfer and enhanced Fenton-like catalytic performance. <i>Applied Surface Science</i> , <b>2020</b> , 502, 144295	6.7	10
35	Architecturing CoTiO <sub>3</sub> overlayer on nanosheets-assembled hierarchical TiO <sub>2</sub> nanospheres as a highly active and robust catalyst for peroxymonosulfate activation and metronidazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123819	14.7	27
34	Encapsulating tin oxide nanoparticles into holey carbon nanotubes by melt infiltration for superior lithium and sodium ion storage. <i>Journal of Power Sources</i> , <b>2020</b> , 449, 227564	8.9	14
33	Hierarchical flower-like Co <sub>2</sub> TiO <sub>4</sub> nanosheets with unique structural and compositional advantages to boost peroxymonosulfate activation for degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20953-20962	13	22
32	Palladium nanoparticles uniformly and firmly supported on hierarchical flower-like TiO <sub>2</sub> nanospheres as a highly active and reusable catalyst for detoxification of Cr(VI)-contaminated water. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 359-369	3.3	8
31	Hydrous titania nanosheets constructed hierarchical hollow microspheres as a highly efficient dual-use decontaminant for elimination of heavy metal ions and organic pollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122638	14.7	17
30	A single molecular sensor for selective and differential colorimetric/ratiometric detection of Cu and Pd in 100% aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 237, 118365	4.4	4
29	Fabrication of Organic Probe Decorated Water-Soluble Polymer Chains on Natural Fibers for Selective Detection and Efficient Removal of Hg <sup>2+</sup> Ions in Pure Aqueous Media. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 2680-2691	4.3	4

28	Ultrafine SnO <sub>2</sub> aggregates in interior of porous carbon nanotubes as high-performance anode materials of lithium-ion batteries. <i>Materials Today Energy</i> , <b>2019</b> , 12, 303-310	7	12
27	Toward High Activity and Durability: An Oxygen-Rich Boron Nitride-Supported Au Nanoparticles for 4-Nitrophenol Hydrogenation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10389-10397	3.8	16
26	Carboxyl-functionalized lotus seedpod: A highly efficient and reusable agricultural waste-based adsorbent for removal of toxic Pb <sup>2+</sup> ions from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 568, 391-401	5.1	23
25	One-pot synthesis of a novel hierarchical Co(II)-doped TiO <sub>2</sub> nanostructure: Toward highly active and durable catalyst of peroxymonosulfate activation for degradation of antibiotics and other organic pollutants. <i>Chemical Engineering Journal</i> , <b>2019</b> , 368, 377-389	14.7	56
24	Facile Synthesis of Hierarchically Porous N/P Codoped Carbon with Simultaneously High-Level Heteroatom-Doping and Moderate Porosity for High-Performance Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5717-5726	8.3	50
23	Insight into the high-efficient functionalization of carbon nanotubes by advanced oxidation using peroxomonosulfate. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 260, 24-29	5.3	6
22	Cu Nanoparticles Supported on Oxygen-Rich Boron Nitride for the Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6692-6700	5.6	22
21	Transition-Metal Ion-Doped Flower-Like Titania Nanospheres as Nonlight-Driven Catalysts for Organic Dye Degradation with Enhanced Performances. <i>ACS Omega</i> , <b>2018</b> , 3, 17724-17731	3.9	12
20	N/P Codoped Porous Carbon-Coated Graphene Nanohybrid as a High-Performance Electrode for Supercapacitors. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6742-6751	5.6	20
19	Direct implementation of K <sub>3</sub> Fe(CN) <sub>6</sub> as cathode materials of sodium-ion batteries. <i>Materials Today Energy</i> , <b>2018</b> , 10, 302-306	7	6
18	Computational Criteria for Evaluating Polysulfide Cohesion, Solvation, and Stabilization: Approach for Screening Effective Anchoring Substrates. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 308-314	3.8	7
17	Facile and scalable synthesis of hierarchically porous graphene architecture for hydrogen storage and high-rate supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 17675-17681 <sup>21</sup>	2.1	7
16	Facile and controllable synthesis of N/P co-doped graphene for high-performance supercapacitors. <i>Journal of Power Sources</i> , <b>2017</b> , 365, 380-388	8.9	75
15	Controllable fabrication of 2D and 3D porous graphene architectures using identical thermally exfoliated graphene oxides as precursors and their application as supercapacitor electrodes. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 237, 228-236	5.3	35
14	On the Mechanism of the Improved Operation Voltage of Rhombohedral Nickel Hexacyanoferrate as Cathodes for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33619-33625	9.5	66
13	Fabrication of ordered mesoporous MoO <sub>3</sub> for olefin catalytic hydrogenation. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5652-5660	6.7	14
12	Selective Adsorption of Gd(3+) on a Magnetically Retrievable Imprinted Chitosan/Carbon Nanotube Composite with High Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21047-55	9.5	97
11	Lithium Sulfur Batteries: Enabling Prominent High-Rate and Cycle Performances in One Lithium Sulfur Battery: Designing Permselective Gateways for Li <sup>+</sup> Transportation in Holey-CNT/S Cathodes (Adv. Mater. 25/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 3840-3840	24	2

10	Enabling prominent high-rate and cycle performances in one lithium-sulfur battery: designing permselective gateways for Li(+) transportation in Holey-CNT/S cathodes. <i>Advanced Materials</i> , <b>2015</b> , 27, 3774-81	24	84
9	Enhanced room-temperature hydrogen storage in super-activated carbons: The role of porosity development by activation. <i>Applied Surface Science</i> , <b>2014</b> , 315, 261-267	6.7	24
8	Hierarchical porous graphene-based carbons prepared by carbon dioxide activation and their gas adsorption properties. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11047-11054	6.7	53
7	An unusual method to prepare a highly microporous carbon for hydrogen storage application. <i>Materials Letters</i> , <b>2013</b> , 100, 227-229	3.3	14
6	Facile synthesis and hydrogen storage application of nitrogen-doped carbon nanotubes with bamboo-like structure. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 3297-3303	6.7	69
5	Enhanced room temperature hydrogen storage capacity of hollow nitrogen-containing carbon spheres. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 210-216	6.7	87
4	CO <sub>2</sub> activation of ordered porous carbon CMK-1 for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 116-123	6.7	65
3	Hierarchical porous carbons with controlled micropores and mesopores for supercapacitor electrode materials. <i>Carbon</i> , <b>2008</b> , 46, 1718-1726	10.4	517
2	Activation, characterization and hydrogen storage properties of the mesoporous carbon CMK-3. <i>Carbon</i> , <b>2007</b> , 45, 1989-1996	10.4	195
1	Utilizing cobalt-doped materials as heterogeneous catalysts to activate peroxydisulfate for organic pollutant degradation: a critical review. <i>Environmental Science: Water Research and Technology</i> ,	4.2	2