

Chengwen Song

List of Publications by Year in descending order

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54
papers

1,599
citations

257101

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docs citations

54
times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane technology coupled with electrochemical advanced oxidation processes for organic wastewater treatment: Recent advances and future prospects. <i>Chemical Engineering Journal</i> , 2019, 376, 120909.	6.6	156
2	Preparation of coal-based microfiltration carbon membrane and application in oily wastewater treatment. <i>Separation and Purification Technology</i> , 2006, 51, 80-84.	3.9	133
3	Enhanced separation performance of coal-based carbon membranes coupled with an electric field for oily wastewater treatment. <i>Separation and Purification Technology</i> , 2016, 168, 47-56.	3.9	71
4	A self-floating, salt-resistant 3D Janus radish-based evaporator for highly efficient solar desalination. <i>Desalination</i> , 2021, 510, 115093.	4.0	67
5	A novel strategy for the removal of rhodamine B (RhB) dye from wastewater by coal-based carbon membranes coupled with the electric field. <i>Separation and Purification Technology</i> , 2017, 179, 175-183.	3.9	64
6	Low cost, facile, environmentally friendly all biomass-based squid ink-starch hydrogel for efficient solar-steam generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24108-24116.	5.2	55
7	Carbon-based membrane materials and applications in water and wastewater treatment: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1457-1475.	8.3	55
8	Spatial distribution and risk assessment of heavy metals in sediments of Shuangtaizi estuary, China. <i>Marine Pollution Bulletin</i> , 2015, 98, 358-364.	2.3	54
9	Electrospun reduced graphene oxide/polyacrylonitrile membrane for high-performance solar evaporation. <i>Solar Energy</i> , 2020, 209, 325-333.	2.9	54
10	In-situ silica nanoparticle assembly technique to develop an omniphobic membrane for durable membrane distillation. <i>Desalination</i> , 2021, 499, 114832.	4.0	53
11	Electrochemical microfiltration treatment of bisphenol A wastewater using coal-based carbon membrane. <i>Separation and Purification Technology</i> , 2019, 227, 115695.	3.9	51
12	Preparation and gas separation performance of supported carbon membranes with ordered mesoporous carbon interlayer. <i>Journal of Membrane Science</i> , 2014, 450, 469-477.	4.1	49
13	Preparation and gas sensing properties of partially broken WO ₃ nanotubes. <i>Vacuum</i> , 2015, 114, 13-16.	1.6	46
14	Preparation and characterization of high-performance electrospun forward osmosis membrane by introducing a carbon nanotube interlayer. <i>Journal of Membrane Science</i> , 2020, 616, 118563.	4.1	45
15	High-performance electrocatalytic microfiltration CuO/Carbon membrane by facile dynamic electrodeposition for small-sized organic pollutants removal. <i>Journal of Membrane Science</i> , 2020, 601, 117913.	4.1	43
16	Effect of carbonization atmosphere on the structure changes of PAN carbon membranes. <i>Journal of Porous Materials</i> , 2009, 16, 197-203.	1.3	42
17	Morphology-controlled synthesis of ZnSnO ₃ hollow spheres and their n-butanol gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 2471-2482.	2.3	39
18	Facile fabrication of low-cost starch-based biohydrogel evaporator for efficient solar steam generation. <i>Desalination</i> , 2021, 517, 115260.	4.0	38

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19	Low-cost electrochemical filtration carbon membrane prepared from coal via self-bonding. <i>Chemical Engineering Journal</i> , 2020, 385, 123928.	6.6	35
20	The design of coal-based carbon membrane coupled with the electric field and its application on the treatment of malachite green (MG) aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 629-636.	2.3	31
21	Enhanced removal ability of phenol from aqueous solution using coal-based carbon membrane coupled with electrochemical oxidation process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 186-193.	2.3	30
22	Nitrogen oxide gas-sensing characteristics of hierarchical Bi ₂ WO ₆ microspheres prepared by a hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 463-467.	1.9	28
23	Degradation of phenol by coal-based carbon membrane integrating sulfate radicals-based advanced oxidation processes. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109662.	2.9	28
24	Ultra-fast responding and recovering ethanol sensors based on CdS nanospheres doped with graphene. <i>Applied Surface Science</i> , 2018, 453, 513-519.	3.1	27
25	Hierarchical flaky porous carbon derived from waste polyimide film for high-performance aqueous supercapacitor electrodes. <i>International Journal of Energy Research</i> , 2022, 46, 370-382.	2.2	27
26	Preparation of Bi ₂ MoO ₆ Nanomaterials and Theirs Gas-Sensing Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 294-301.	1.9	24
27	Enhanced Treatment Ability of Membrane Technology by Integrating an Electric Field for Dye Wastewater Treatment: A Review. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 1341-1352.	0.7	23
28	Silver nanoparticles@polydopamine@wax gourd: An antimicrobial solar evaporator with enhanced steam generation. <i>International Journal of Energy Research</i> , 2022, 46, 8949-8961.	2.2	23
29	Improved oil removal ability by the integrated electrocoagulation (EC)-carbon membrane coupling with electrochemical anodic oxidation (CM/EAO) system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 305-313.	2.3	22
30	Preparation and performance of polyaniline modified coal-based carbon membrane for electrochemical filtration treatment of organic wastewater. <i>Separation and Purification Technology</i> , 2022, 287, 120600.	3.9	18
31	A simple, flexible, and porous polypyrrole@wax gourd evaporator with excellent light absorption for efficient solar steam generation. <i>International Journal of Energy Research</i> , 2021, 45, 21476-21486.	2.2	14
32	Assessment of Heavy Metal Contamination in the Sediments of the Shuangtaizi Estuary Using Multivariate Statistical Techniques. <i>Soil and Sediment Contamination</i> , 2017, 26, 45-58.	1.1	13
33	Facile morphology-controlled synthesis of ZnO electrocatalysts on coal-based carbon membrane for antibiotics wastewater treatment. <i>Journal of Membrane Science</i> , 2021, 639, 119734.	4.1	13
34	Preparation and application of high-performance and acid-tolerant TiO ₂ /carbon electrocatalytic membrane for organic wastewater treatment. <i>Chemosphere</i> , 2022, 296, 134017.	4.2	12
35	Coal-Based Carbon Membrane Coupled with Electrochemical Oxidation Process for the Enhanced Microalgae Removal from Simulated Ballast Water. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	11
36	Preparation of porous and hollow Mn ₂ O ₃ microspheres and their adsorption studies on heavy metal ions from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3128-3133.	2.9	10

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37	Facile synthesis of W ₁₈ O ₄₉ /Graphene nanocomposites for highly sensitive ethanol gas sensors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126300.	2.3	10
38	Insights into the impact of polydopamine modification on permeability and anti-fouling performance of forward osmosis membrane. <i>Chemosphere</i> , 2022, 291, 132744.	4.2	10
39	Ethanol Monitoring Gas Sensor Based on Flower-Shaped Copper Sulfide by a Facile Hydrothermal Method for Marine Transportation. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6649-6655.	1.2	9
40	High performance polypyrrole coated carbon-based electrocatalytic membrane for organic contaminants removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 283-295.	5.0	9
41	Oil Fingerprinting by Three-Dimensional (3D) Fluorescence Spectroscopy and Gas Chromatography–Mass Spectrometry (GC–MS). <i>Environmental Forensics</i> , 2009, 10, 324-330.	1.3	8
42	Synthesis, Characterization, and Gas Sensing Applications of WO ₃ Nanobricks. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3026-3031.	1.2	8
43	Morphology-Controlled Synthesis of BiVO ₄ Materials and Their Ethanol Gas Sensing Properties. <i>IEEE Access</i> , 2020, 8, 24941-24947.	2.6	8
44	Synthesis of WO ₃ Nanorods and Their Excellent Ethanol Gas-Sensing Performance. <i>Materials Research</i> , 2021, 24, .	0.6	7
45	Morphologically controlled synthesis of porous Mn ₂ O ₃ microspheres and their catalytic applications on the degradation of methylene blue. <i>Desalination and Water Treatment</i> , 2016, 57, 7079-7084.	1.0	6
46	High-performance desalination of high-salinity reverse osmosis brine by direct contact membrane distillation using superhydrophobic membranes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49768.	1.3	5
47	Pore structure prediction of coal-based microfiltration carbon membranes. <i>Science Bulletin</i> , 2010, 55, 1325-1330.	1.7	3
48	Enhanced Permeability and Removal Efficiency for Phenol and Perfluorooctane Sulphonate by a Multifunctional CNT/Al ₂ O ₃ Membrane with Electrochemical Assistance. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5951-5958.	0.9	3
49	Efficient Technique for Simultaneous Lead Recovery and PbO ₂ /Ti Electrode Preparation for Electrocatalytic Degradation of Basic Red. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5874-5884.	0.9	3
50	Synthesis of FeVO ₄ Nanoparticles and Sensing Performance for Ethanol Gas under Different Solution pH. <i>Crystal Research and Technology</i> , 0, , 2100110.	0.6	2
51	Preparation of a novel double-skinned forward osmosis membrane by reserve draw solute in support layer. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 2124-2131.	1.2	1
52	Preparation of Metal-Incorporated SAPO-34 catalysts and their Catalytic Performance in Selective Catalytic Reduction of Nitric Oxide. <i>Materials Research</i> , 2021, 24, .	0.6	1
53	The enhanced catalytic activity of Cu/SAPO-34 by ion exchange method for selective catalytic reduction of nitric oxide. <i>Materials Research Express</i> , 2021, 8, 025507.	0.8	1
54	Developments of Carbon-Based Membrane Materials for Water Treatment. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 121-175.	0.3	1