

Meng Sun

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.

41
papers

2,442
citations

24
h-index

43
g-index

43
ext. papers

3,220
ext. citations

10.8
avg, IF

5.63
L-index

#	Paper	IF	Citations
41	Reply to "A resurrection of the Haber-Weiss reaction".. <i>Nature Communications</i> , 2022 , 13, 395	17.4	0
40	Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
39	Valuable resources in water: why and how to recover?. <i>Resources, Conservation & Recycling Advances</i> , 2022 , 200089		
38	High-performance iron-doped molybdenum disulfide photocatalysts enhance peroxymonosulfate activation for water decontamination. <i>Chemical Engineering Journal</i> , 2022 , 137380	14.7	0
37	Electrified Membranes for Water Treatment Applications. <i>ACS ES&T Engineering</i> , 2021 , 1, 725-752		33
36	Enhanced Photocatalytic Water Decontamination by Micro-Nano Bubbles: Measurements and Mechanisms. <i>Environmental Science & Technology</i> , 2021 , 55, 7025-7033	10.3	7
35	Membrane-Confined Iron Oxychloride Nanocatalysts for Highly Efficient Heterogeneous Fenton Water Treatment. <i>Environmental Science & Technology</i> , 2021 , 55, 9266-9275	10.3	23
34	Photo-electrochemical Osmotic System Enables Simultaneous Metal Recovery and Electricity Generation from Wastewater. <i>Environmental Science & Technology</i> , 2021 , 55, 604-613	10.3	11
33	High-Performance, Free-Standing Symmetric Hybrid Membranes for Osmotic Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8967-8975	9.5	4
32	Precisely Engineered Photoreactive Titanium Nanoarray Coating to Mitigate Biofouling in Ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9975-9984	9.5	3
31	A Robust Flow-Through Platform for Organic Contaminant Removal. <i>Cell Reports Physical Science</i> , 2021 , 2, 100296-100296	6.1	4
30	Electrochemical-Osmotic Process for Simultaneous Recovery of Electric Energy, Water, and Metals from Wastewater. <i>Environmental Science & Technology</i> , 2020 , 54, 8430-8442	10.3	12
29	In Situ Electrochemical Generation of Reactive Chlorine Species for Efficient Ultrafiltration Membrane Self-Cleaning. <i>Environmental Science & Technology</i> , 2020 , 54, 6997-7007	10.3	38
28	Janus electrocatalytic flow-through membrane enables highly selective singlet oxygen production. <i>Nature Communications</i> , 2020 , 11, 6228	17.4	38
27	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. <i>Environmental Science & Technology</i> , 2020 , 54, 10868-10875	10.3	56
26	Fast Screening of Corrosion Trends in Metallic Glasses. <i>ACS Combinatorial Science</i> , 2019 , 21, 666-674	3.9	4
25	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38789-38797	9.5	39

24	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxide Nanosheets. <i>Environmental Science & Technology</i> , 2019 , 53, 2075-2085	10.3	71
23	Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. <i>Advanced Functional Materials</i> , 2019 , 29, 1903125	15.6	31
22	Electrospun silica nanofiber mats functionalized with ceria nanoparticles for water decontamination.. <i>RSC Advances</i> , 2019 , 9, 19408-19417	3.7	9
21	Engineering hierarchical NiFe-layered double hydroxides derived phosphosulfide for high-efficiency hydrogen evolving electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16378-16386	6.7	11
20	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. <i>ACS Nano</i> , 2019 , 13, 9811-9840	16.7	196
19	Reinventing Fenton Chemistry: Iron Oxide Nanosheet for pH-Insensitive H ₂ O ₂ Activation. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 186-191	11	120
18	Graphene oxide membranes: Functional structures, preparation and environmental applications. <i>Nano Today</i> , 2018 , 20, 121-137	17.9	106
17	Selective removal of divalent cations by polyelectrolyte multilayer nanofiltration membrane: Role of polyelectrolyte charge, ion size, and ionic strength. <i>Journal of Membrane Science</i> , 2018 , 559, 98-106	9.6	140
16	Reactive, Self-Cleaning Ultrafiltration Membrane Functionalized with Iron Oxide Nanocatalysts. <i>Environmental Science & Technology</i> , 2018 , 52, 8674-8683	10.3	70
15	Highly efficient and sustainable non-precious-metal Fe ₃ O ₄ electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2527-2539	13	167
14	Enhancing destruction of copper (I) cyanide and subsequent recovery of Cu(I) by a novel electrochemical system combining activated carbon fiber and stainless steel cathodes. <i>Chemical Engineering Journal</i> , 2017 , 330, 1187-1194	14.7	16
13	Earth-Rich Transition Metal Phosphide for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2016 , 6, 1600087	21.8	354
12	Dechlorination of Trichloroacetic Acid Using a Noble Metal-Free Graphene-Cu Foam Electrode via Direct Cathodic Reduction and Atomic H. <i>Environmental Science & Technology</i> , 2016 , 50, 3829-37	10.3	103
11	Efficient conversion of dimethylarsinate into arsenic and its simultaneous adsorption removal over Fe ₃ O ₄ /N-doped carbon fiber composite in an electro-Fenton process. <i>Water Research</i> , 2016 , 100, 57-64	12.5	52
10	Optimization and control of Electro-Fenton process by pH inflection points: A case of treating acrylic fiber manufacturing wastewater. <i>Chemical Engineering Journal</i> , 2015 , 269, 399-407	14.7	19
9	Redox Conversion of Chromium(VI) and Arsenic(III) with the Intermediates of Chromium(V) and Arsenic(IV) via AuPd/CNTs Electrocatalysis in Acid Aqueous Solution. <i>Environmental Science & Technology</i> , 2015 , 49, 9289-97	10.3	72
8	Highly Efficient AuPd/Carbon Nanotube Nanocatalysts for the Electro-Fenton Process. <i>Chemistry - A European Journal</i> , 2015 , 21, 7611-20	4.8	26
7	AuPd/Fe ₃ O ₄ -based three-dimensional electrochemical system for efficiently catalytic degradation of 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Electrochimica Acta</i> , 2015 , 186, 328-336	6.7	28

6	Visible-light induced photocatalytic activity of electrospun-TiO ₂ in arsenic(III) oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 511-8	9.5	39
5	Graphene-based transition metal oxide nanocomposites for the oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 1250-69	7.7	249
4	Formation of Bi ₂ WO ₆ Bipyramids with Vacancy Pairs for Enhanced Solar-Driven Photoactivity. <i>Advanced Functional Materials</i> , 2015 , 25, 3726-3734	15.6	117
3	Band π -Fe ₂ O ₃ nanoparticle/nitrogen doped carbon nanotube catalysts for high-performance oxygen reduction reaction. <i>Science China Materials</i> , 2015 , 58, 683-692	7.1	59
2	Ionic liquid assisted electrospun cellulose acetate fibers for aqueous removal of triclosan. <i>Langmuir</i> , 2015 , 31, 1820-7	4	18
1	π -Fe ₂ O ₃ spherical nanocrystals supported on CNTs as efficient non-noble electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13635-13640	13	95