Meng Sun

List of Publications by Citations

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	Earth-Rich Transition Metal Phosphide for Energy Conversion and Storage. *Advanced Energy Materials*, **2016**, 6, 1600087	21.8	354
40	Graphene-based transition metal oxide nanocomposites for the oxygen reduction reaction. *Nanoscale*, **2015**, 7, 1250-69	7.7	249
39	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. *ACS Nano*, **2019**, 13, 9811-9840	16.7	196
38	Highly efficient and sustainable non-precious-metal FeNC electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 2527-2539	13	167
37	Selective removal of divalent cations by polyelectrolyte multilayer nanofiltration membrane: Role of polyelectrolyte charge, ion size, and ionic strength. *Journal of Membrane Science*, **2018**, 559, 98-106	9.6	140
36	Reinventing Fenton Chemistry: Iron Oxychloride Nanosheet for pH-Insensitive H2O2 Activation. *Environmental Science and Technology Letters*, **2018**, 5, 186-191	11	120
35	Formation of Bi2WO6 Bipyramids with Vacancy Pairs for Enhanced Solar-Driven Photoactivity. *Advanced Functional Materials*, **2015**, 25, 3726-3734	15.6	117
34	Graphene oxide membranes: Functional structures, preparation and environmental applications. *Nano Today*, **2018**, 20, 121-137	17.9	106
33	Dechlorination of Trichloroacetic Acid Using a Noble Metal-Free Graphene-Cu Foam Electrode via Direct Cathodic Reduction and Atomic H. *Environmental Science & Technology*, **2016**, 50, 3829-37	10.3	103
32	Fe2O3 spherical nanocrystals supported on CNTs as efficient non-noble electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2014**, 2, 13635-13640	13	95
31	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. *Environmental Science & Technology*, **2015**, 49, 9289-97	10.3	72
30	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxychloride (FeOCl) Nanosheets. *Environmental Science & Technology*, **2019**, 53, 2075-2085	10.3	71
29	Reactive, Self-Cleaning Ultrafiltration Membrane Functionalized with Iron Oxychloride Nanocatalysts. *Environmental Science & Technology*, **2018**, 52, 8674-8683	10.3	70
28	and Fe2O3 nanoparticle/nitrogen doped carbon nanotube catalysts for high-performance oxygen reduction reaction. *Science China Materials*, **2015**, 58, 683-692	7.1	59
27	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. *Environmental Science & Technology*, **2020**, 54, 10868-10875	10.3	56
26	Efficient conversion of dimethylarsinate into arsenic and its simultaneous adsorption removal over FeCx/N-doped carbon fiber composite in an electro-Fenton process. *Water Research*, **2016**, 100, 57-64	12.5	52
25	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS. *ACS Applied Materials & Interfaces*, **2019**, 11, 38789-38797	9.5	39

24	Visible-light induced photocatalytic activity of electrospun-TiO2 in arsenic(III) oxidation. *ACS Applied Materials & Interfaces*, **2015**, 7, 511-8	9.5	39
23	In Situ Electrochemical Generation of Reactive Chlorine Species for Efficient Ultrafiltration Membrane Self-Cleaning. *Environmental Science & Technology*, **2020**, 54, 6997-7007	10.3	38
22	Janus electrocatalytic flow-through membrane enables highly selective singlet oxygen production. *Nature Communications*, **2020**, 11, 6228	17.4	38
21	Electrified Membranes for Water Treatment Applications. *ACS ES&T Engineering*, **2021**, 1, 725-752		33
20	Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. *Advanced Functional Materials*, **2019**, 29, 1903125	15.6	31
19	AuPd/Fe3O4-based three-dimensional electrochemical system for efficiently catalytic degradation of 1-butyl-3-methylimidazolium hexafluorophosphate. *Electrochimica Acta*, **2015**, 186, 328-336	6.7	28
18	Highly Efficient AuPd/Carbon Nanotube Nanocatalysts for the Electro-Fenton Process. *Chemistry - A European Journal*, **2015**, 21, 7611-20	4.8	26
17	Membrane-Confined Iron Oxychloride Nanocatalysts for Highly Efficient Heterogeneous Fenton Water Treatment. *Environmental Science & Technology*, **2021**, 55, 9266-9275	10.3	23
16	Optimization and control of Electro-Fenton process by pH inflection points: A case of treating acrylic fiber manufacturing wastewater. *Chemical Engineering Journal*, **2015**, 269, 399-407	14.7	19
15	Ionic liquid assisted electrospun cellulose acetate fibers for aqueous removal of triclosan. *Langmuir* , **2015**, 31, 1820-7	4	18
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. *Chemical Engineering Journal*, **2017**, 330, 1187-1194	14.7	16
13	Electrochemical-Osmotic Process for Simultaneous Recovery of Electric Energy, Water, and Metals from Wastewater. *Environmental Science & Technology*, **2020**, 54, 8430-8442	10.3	12
12	Engineering hierarchical NiFe-layered double hydroxides derived phosphosulfide for high-efficiency hydrogen evolving electrocatalysis. *International Journal of Hydrogen Energy*, **2019**, 44, 16378-16386	6.7	11
11	Photo-electrochemical Osmotic System Enables Simultaneous Metal Recovery and Electricity Generation from Wastewater. *Environmental Science & Technology*, **2021**, 55, 604-613	10.3	11
10	Electrospun silica nanofiber mats functionalized with ceria nanoparticles for water decontamination.. *RSC Advances*, **2019**, 9, 19408-19417	3.7	9
9	Enhanced Photocatalytic Water Decontamination by Micro-Nano Bubbles: Measurements and Mechanisms. *Environmental Science & Technology*, **2021**, 55, 7025-7033	10.3	7
8	Fast Screening of Corrosion Trends in Metallic Glasses. *ACS Combinatorial Science*, **2019**, 21, 666-674	3.9	4
7	High-Performance, Free-Standing Symmetric Hybrid Membranes for Osmotic Separation. *ACS Applied Materials & Interfaces*, **2021**, 13, 8967-8975	9.5	4

6	A Robust Flow-Through Platform for Organic Contaminant Removal. *Cell Reports Physical Science*, **2021**, 2, 100296-100296	6.1	4
5	Precisely Engineered Photoreactive Titanium Nanoarray Coating to Mitigate Biofouling in Ultrafiltration. *ACS Applied Materials & Interfaces*, **2021**, 13, 9975-9984	9.5	3
4	Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment.. *Environmental Science & Technology*, **2022**,	10.3	1
3	Reply to "A resurrection of the Haber-Weiss reaction".. *Nature Communications*, **2022**, 13, 395	17.4	0
2	High-performance iron-doped molybdenum disulfide photocatalysts enhance peroxymonosulfate activation for water decontamination. *Chemical Engineering Journal*, **2022**, 137380	14.7	0
1	Valuable resources in water: why and how to recover?. *Resources, Conservation & Recycling Advances* , **2022**, 200089		