Yu-Ming Zheng

List of Publications by Year
in descending order

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76 papers	4,771 citations	76326 40 h-index	95266 68 g-index
77 all docs	77 docs citations	77 times ranked	5690 citing authors

#	Article	IF	Citations
1	Characterization of Copper Adsorption onto an Alginate Encapsulated Magnetic Sorbent by a Combined FT-IR, XPS, and Mathematical Modeling Study. Environmental Science & Technology, 2008, 42, 2551-2556.	10.0	295
2	Catalytic degradation of ciprofloxacin by a visible-light-assisted peroxymonosulfate activation system: Performance and mechanism. Water Research, 2020, 173, 115559.	11.3	270
3	Synthesis of Fe₃O₄/Polyacrylonitrile Composite Electrospun Nanofiber Mat for Effective Adsorption of Tetracycline. ACS Applied Materials & Interfaces, 2015, 7, 14573-14583.	8.0	256
4	Systematic study of synergistic and antagonistic effects on adsorption of tetracycline and copper onto a chitosan. Journal of Colloid and Interface Science, 2010, 344, 117-125.	9.4	229
5	Formation and instability of aerobic granules under high organic loading conditions. Chemosphere, 2006, 63, 1791-1800.	8.2	194
6	A critical review on the electrospun nanofibrous membranes for the adsorption of heavy metals in water treatment. Journal of Hazardous Materials, 2021, 401, 123608.	12.4	192
7	Self-Assembly of Au Nanoparticles on PMMA Template as Flexible, Transparent, and Highly Active SERS Substrates. Analytical Chemistry, 2014, 86, 6262-6267.	6.5	179
8	Improvement of metal adsorption onto chitosan/Sargassum sp. composite sorbent by an innovative ion-imprint technology. Water Research, 2011, 45, 145-154.	11.3	152
9	Adsorptive removal of arsenic from aqueous solution by a PVDF/zirconia blend flat sheet membrane. Journal of Membrane Science, 2011, 374, 1-11.	8.2	143
10	Physical and chemical characteristics of granular activated sludge from a sequencing batch airlift reactor. Process Biochemistry, 2005, 40, 645-650.	3.7	137
11	Organic Arsenic Adsorption onto a Magnetic Sorbent. Langmuir, 2009, 25, 4973-4978.	3.5	133
12	Preparation of chitosan based electrospun nanofiber membrane and its adsorptive removal of arsenate from aqueous solution. Chemical Engineering Journal, 2015, 267, 132-141.	12.7	130
13	A zirconium based nanoparticle for significantly enhanced adsorption of arsenate: Synthesis, characterization and performance. Journal of Colloid and Interface Science, 2011, 354, 785-792.	9.4	111
14	Design and fabrication of an innovative and environmental friendly adsorbent for boron removal. Water Research, 2011, 45, 2297-2305.	11.3	103
15	Self-sustained hydrophilic nanofiber thin film composite forward osmosis membranes: Preparation, characterization and application for simulated antibiotic wastewater treatment. Journal of Membrane Science, 2017, 523, 205-215.	8.2	95
16	Removal of arsenite from aqueous solution by a zirconia nanoparticle. Chemical Engineering Journal, 2012, 188, 15-22.	12.7	92
17	Separation of tetracycline from wastewater using forward osmosis process with thin film composite membrane â€“ Implications for antibiotics recovery. Separation and Purification Technology, 2015, 153, 76-83.	7.9	81
18	Preparation and characterization of zirconium-based magnetic sorbent for arsenate removal. Journal of Colloid and Interface Science, 2009, 338, 22-29.	9.4	79

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19	Determination of the pore size distribution and porosity of aerobic granules using size-exclusion chromatography. Water Research, 2007, 41, 39-46.	11.3	76
20	Ammonia recovery from anaerobic digester effluent through direct aeration. Chemical Engineering Journal, 2015, 279, 31-37.	12.7	75
21	Functionalized chitosan electrospun nanofiber for effective removal of trace arsenate from water. Scientific Reports, 2016, 6, 32480.	3.3	75
22	Removal of copper by calcium alginate encapsulated magnetic sorbent. Chemical Engineering Journal, 2009, 152, 509-513.	12.7	72
23	Facile synthesis of electrospun carbon nanofiber/graphene oxide composite aerogels for high efficiency oils absorption. Environment International, 2019, 128, 37-45.	10.0	68
24	Synthesis of Silver Nanoparticles Embedded Electrospun PAN Nanofiber Thin-Film Composite Forward Osmosis Membrane to Enhance Performance and Antimicrobial Activity. Industrial & Engineering Chemistry Research, 2019, 58, 984-993.	3.7	67
25	Application of nuclear magnetic resonance spectroscopy, Fourier transform infrared spectroscopy, UVâ€“Visible spectroscopy and kinetic modeling for elucidation of adsorption chemistry in uptake of tetracycline by zeolite beta. Journal of Colloid and Interface Science, 2011, 354, 261-267.	9.4	65
26	Hierarchically porous biochar for supercapacitor and electrochemical H2O2 production. Chemical Engineering Journal, 2020, 402, 126171.	12.7	64
27	Functionalization of Regenerated Cellulose Membrane via Surface Initiated Atom Transfer Radical Polymerization for Boron Removal from Aqueous Solution. Langmuir, 2011, 27, 6018-6025.	3.5	63
28	Facile On-Site Aqueous Pollutant Monitoring Using a Flexible, Ultralight, and Robust Surface-Enhanced Raman Spectroscopy Substrate: Interface Self-Assembly of Au@Ag Nanocubes on a Polyvinyl Chloride Template. Environmental Science & Technology, 2018, 52, 5812-5820.	10.0	61
29	Fish scale-based biochar with defined pore size and ultrahigh specific surface area for highly efficient adsorption of ciprofloxacin. Chemosphere, 2022, 287, 131962.	8.2	59
30	Electrospun spongy zero-valent iron as excellent electro-Fenton catalyst for enhanced sulfathiazole removal by a combination of adsorption and electro-catalytic oxidation. Journal of Hazardous Materials, 2019, 371, 576-585.	12.4	56
31	Removal of tetracycline from aqueous solution by a Fe3O4 incorporated PAN electrospun nanofiber mat. Journal of Environmental Sciences, 2015, 28, 29-36.	6.1	55
32	Electrochemical Removal of Rhodamine 6G by Using RuO₂ Coated Ti DSA. Industrial & Engineering Chemistry Research, 2009, 48, 7466-7473.	3.7	52
33	Flexible and porous TiO2/SiO2/carbon composite electrospun nanofiber mat with enhanced interfacial charge separation for photocatalytic degradation of organic pollutants in water. Journal of Colloid and Interface Science, 2019, 553, 156-166.	9.4	52
34	Facile co-precursor sol-gel synthesis of a novel amine-modified silica aerogel for high efficiency carbon dioxide capture. Journal of Colloid and Interface Science, 2018, 530, 412-423.	9.4	51
35	Omniphobic surface modification of electrospun nanofiber membrane via vapor deposition for enhanced anti-wetting property in membrane distillation. Journal of Membrane Science, 2020, 606, 118075.	8.2	49
36	Uptake of arsenate by an alginate-encapsulated magnetic sorbent: Process performance and characterization of adsorption chemistry. Journal of Colloid and Interface Science, 2009, 333, 33-39.	9.4	47

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37	Electrochemical disinfection for ballast water management: Technology development and risk assessment. Marine Pollution Bulletin, 2011, 63, 119-123.	5.0	46
38	Electrochemical Decoloration of Synthetic Wastewater Containing Rhodamine 6G: Behaviors and Mechanism. Industrial & Engineering Chemistry Research, 2012, 51, 5953-5960.	3.7	45
39	Polymer induced one-step interfacial self-assembly method for the fabrication of flexible, robust and free-standing SERS substrates for rapid on-site detection of pesticide residues. Nanoscale, 2019, 11, 12829-12836.	5.6	45
40	Enhanced adsorption of arsenate onto a natural polymer-based sorbent by surface atom transfer radical polymerization. Journal of Colloid and Interface Science, 2011, 356, 234-239.	9.4	42
41	Enhanced adsorption of arsenite from aqueous solution by an iron-doped electrospun chitosan nanofiber mat: Preparation, characterization and performance. Journal of Colloid and Interface Science, 2019, 535, 255-264.	9.4	40
42	Characterization of hexavalent chromium interaction with Sargassum by X-ray absorption fine structure spectroscopy, X-ray photoelectron spectroscopy, and quantum chemistry calculation. Journal of Colloid and Interface Science, 2011, 356, 741-748.	9.4	39
43	Electrospun Chitosan Nanofiber Membrane for Adsorption of Cu(II) from Aqueous Solution: Fabrication, Characterization and Performance. Journal of Nanoscience and Nanotechnology, 2018, 18, 5624-5635.	0.9	39
44	Uptake of methylated arsenic by a polymeric adsorbent: Process performance and adsorption chemistry. Water Research, 2011, 45, 2290-2296.	11.3	38
45	Preparation, characterization and performance of an electrospun carbon nanofiber mat applied in hexavalent chromium removal from aqueous solution. Journal of Environmental Sciences, 2019, 77, 75-84.	6.1	33
46	Enhanced desalination performance of aluminium fumarate MOF-incorporated electrospun nanofiber membrane with bead-on-string structure for membrane distillation. Desalination, 2021, 520, 115338.	8.2	33
47	Removal of methylated arsenic using a nanostructured zirconia-based sorbent: Process performance and adsorption chemistry. Journal of Colloid and Interface Science, 2012, 367, 362-369.	9.4	32
48	Multilevel structured TPU/PS/PA-6 composite membrane for high-efficiency airborne particles capture: Preparation, performance evaluation and mechanism insights. Journal of Membrane Science, 2021, 633, 119392.	8.2	32
49	Experimental and theoretical analysis of loading characteristics of different electret media with various properties toward the design of ideal depth filtration for nanoparticles and fine particles. Separation and Purification Technology, 2020, 233, 116002.	7.9	30
50	A low-energy intensive electrochemical system for the eradication of Escherichia coli from ballast water: Process development, disinfection chemistry, and kinetics modeling. Marine Pollution Bulletin, 2012, 64, 1238-1245.	5.0	27
51	Facile one-pot synthesis of urchin-like Feâ€“Mn binary oxide nanoparticles for effective adsorption of Cd(<scp>ii</scp>) from water. RSC Advances, 2016, 6, 103438-103445.	3.6	26
52	Low-temperature synthesis of carbonate-intercalated NixFe-layered double hydroxides for enhanced adsorption properties. Applied Surface Science, 2020, 531, 147281.	6.1	24
53	Influence of NaCl on Hydrogen Production from Glucose by Anaerobic Cultures. Environmental Technology (United Kingdom), 2005, 26, 1073-1080.	2.2	20
54	Flexible electrospun MWCNTs/Ag3PO4/PAN ternary composite fiber membranes with enhanced photocatalytic activity and stability under visible-light irradiation. Journal of Materials Science, 2018, 53, 10147-10159.	3.7	20

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55	Adsorption of organic and inorganic arsenic from aqueous solution: Optimization, characterization and performance of Feâ€“Mnâ€“Zr ternary magnetic sorbent. Chemosphere, 2022, 288, 132634.	8.2	19
56	Solâ€“Gel SiO2 on electrospun polyacrylonitrile nanofiber for efficient oil-in-water emulsion separation. Journal of Materials Science, 2020, 55, 16129-16142.	3.7	18
57	Selective adsorption of trace gaseous ammonia from air by a sulfonic acid-modified silica xerogel: Preparation, characterization and performance. Chemical Engineering Journal, 2022, 443, 136357.	12.7	18
58	Rational Design of 3D Urchin-like FeMn_xO_y@FeOOH for Water Purification and Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 2991-3001.	6.7	16
59	Thermal Conversion of Hazardous Metal Copper via the Preparation of CuAl₂O₄ Spinel-based Ceramic Membrane for Potential Stabilization of Simulated Copper-Rich Waste. ACS Sustainable Chemistry and Engineering, 2015, 3, 2611-2618.	6.7	13
60	Super-hydrophilic nanofiber substrate supported forward osmosis membrane with less polyamide layer defects by polydopamine-graphene oxide modification for high salinity desulfurization wastewater desalination. Journal of Membrane Science, 2022, 659, 120767.	8.2	13
61	High performance electrospun thin-film composite forward osmosis membrane by tailoring polyamide active layer with polydopamine interlayer for desulfulrization wastewater desalination. Desalination, 2022, 534, 115781.	8.2	11
62	Assessment of the fate of silver nanoparticles in the A2O-MBR system. Science of the Total Environment, 2016, 544, 901-907.	8.0	8
63	Ordered Mesoporous Carbon with Chitosan for Disinfection of Water via Capacitive Deionization. Nanomaterials, 2020, 10, 489.	4.1	7
64	Rational design of pore structures for carbon aerogels to significantly increase adsorption of tetracycline from water using batch and fixed-bed operation. Environmental Science: Nano, 2021, 8, 3250-3261.	4.3	7
65	Effect of Hexavalent Chromium on Performance of Membrane Bioreactor in Wastewater Treatment. Journal of Environmental Engineering, ASCE, 2009, 135, 796-805.	1.4	6
66	Desalination of Seawater by Thermal Distillation and Electrodialysis Technologies. , 2011, , 525-558.		5
67	Treatment of Food Industry Foods and Wastes by Membrane Filtration. , 2011, , 237-269.		5
68	Spatially isolated CoNx quantum dots on carbon nanotubes enable a robust radical-free Fenton-like process. Chemical Communications, 2022, 58, 451-454.	4.1	5
69	Storage strategy of aerobic algae-bacteria granular consortia in photo-sequencing batch reactor. Journal of Cleaner Production, 2022, 363, 132410.	9.3	5
70	Three-dimensional cubic ordered mesoporous carbon with chitosan for capacitive deionization disinfection of water. Environmental Science and Pollution Research, 2020, 27, 15001-15010.	5.3	4
71	Alleviation of Reverse Salt Leakage across Nanofiber Supported Thin-Film Composite Forward Osmosis Membrane via Heat-Curing in Hot Water. Membranes, 2021, 11, 237.	3.0	4
72	Designing triple-layer superhydrophobic/hydrophobic/hydrophilic nanofibrous membrane via electrohydrodynamic technique for enhanced anti-fouling and anti-wetting in wastewater treatment by membrane distillation. , 2022, 2, 100030.		4

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73	Future research needs for environmental science in China. Geography and Sustainability, 2021, , .	4.3	3
74	Sago cycasâ€“based hierarchicalâ€“structured porous carbon for adsorption of acetone vapour: preparation, characterization and performance. Environmental Science and Pollution Research, 2022, 29, 19165-19175.	5.3	2
75	Chapter 8 Arsenic in the Environment Source, Characteristics, and Technologies for Pollution Elimination. Advances in Industrial and Hazardous Wastes Treatment Series, 2016, , 255-288.	0.0	0
76	A Facile Oneâ€Pot Method for Fabricating Assembled Gold Nanoparticle Films with Tunable Morphologies Directly from Chloroauric Acid. Advanced Materials Interfaces, 2021, 8, 2100925.	3.7	0