

Wei Chen

List of Publications by Year in descending order

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51
papers

2,496
citations

218677

26
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

2009
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR and Synchronous Fluorescence Heterospectral Two-Dimensional Correlation Analyses on the Binding Characteristics of Copper onto Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2015, 49, 2052-2058.	10.0	389
2	Induced structural changes of humic acid by exposure of polystyrene microplastics: A spectroscopic insight. <i>Environmental Pollution</i> , 2018, 233, 1-7.	7.5	211
3	Characterization and treatment of landfill leachate: A review. <i>Water Research</i> , 2021, 203, 117525.	11.3	206
4	Two-Dimensional Correlation Spectroscopic Analysis on the Interaction between Humic Acids and TiO ₂ Nanoparticles. <i>Environmental Science & Technology</i> , 2014, 48, 11119-11126.	10.0	166
5	Characterizing Properties and Environmental Behaviors of Dissolved Organic Matter Using Two-Dimensional Correlation Spectroscopic Analysis. <i>Environmental Science & Technology</i> , 2019, 53, 4683-4694.	10.0	151
6	Probing the roles of Ca ²⁺ and Mg ²⁺ in humic acids-induced ultrafiltration membrane fouling using an integrated approach. <i>Water Research</i> , 2015, 81, 325-332.	11.3	94
7	Molecular Spectroscopic Characterization of Membrane Fouling: A Critical Review. <i>CheM</i> , 2018, 4, 1492-1509.	11.7	83
8	Interaction between humic acid and protein in membrane fouling process: A spectroscopic insight. <i>Water Research</i> , 2018, 145, 146-152.	11.3	74
9	Advances in the characterization and monitoring of natural organic matter using spectroscopic approaches. <i>Water Research</i> , 2021, 190, 116759.	11.3	74
10	Concentration Dependent Effects of Bovine Serum Albumin on Graphene Oxide Colloidal Stability in Aquatic Environment. <i>Environmental Science & Technology</i> , 2018, 52, 7212-7219.	10.0	67
11	Structural response of humic acid upon binding with lead: A spectroscopic insight. <i>Science of the Total Environment</i> , 2018, 643, 479-485.	8.0	65
12	Enhanced selective leaching of scandium from red mud. <i>Hydrometallurgy</i> , 2018, 182, 57-63.	4.3	60
13	Degradation characteristics of dissolved organic matter in nanofiltration concentrated landfill leachate during electrocatalytic oxidation. <i>Chemosphere</i> , 2020, 255, 127055.	8.2	49
14	Elucidating the structural variation of membrane concentrated landfill leachate during Fenton oxidation process using spectroscopic analyses. <i>Environmental Pollution</i> , 2020, 256, 113467.	7.5	48
15	Fluorescence Approach for the Determination of Fluorescent Dissolved Organic Matter. <i>Analytical Chemistry</i> , 2017, 89, 4264-4271.	6.5	45
16	Spectroscopic response of soil organic matter in mining area to Pb/Cd heavy metal interaction: A mirror of coherent structural variation. <i>Journal of Hazardous Materials</i> , 2020, 393, 122425.	12.4	45
17	Recovery of iron and rare earth elements from red mud through an acid leaching-stepwise extraction approach. <i>Journal of Central South University</i> , 2019, 26, 458-466.	3.0	44
18	Cultivation substrata differentiate the properties of river biofilm EPS and their binding of heavy metals: A spectroscopic insight. <i>Environmental Research</i> , 2020, 182, 109052.	7.5	42

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19	Interaction between Dissolved Organic Matter and Long-Chain Ionic Liquids: A Microstructural and Spectroscopic Correlation Study. <i>Environmental Science & Technology</i> , 2017, 51, 4812-4820.	10.0	40
20	Selective Electrocatalytic Water Oxidation to Produce H ₂ O ₂ Using a C,N Codoped TiO ₂ Electrode in an Acidic Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4423-4431.	8.0	40
21	Temperature-dependent conformational variation of chromophoric dissolved organic matter and its consequent interaction with phenanthrene. <i>Environmental Pollution</i> , 2017, 222, 23-31.	7.5	39
22	Evolution of Membrane Fouling Revealed by Label-Free Vibrational Spectroscopic Imaging. <i>Environmental Science & Technology</i> , 2017, 51, 9580-9587.	10.0	36
23	Arsenic removal from highly-acidic wastewater with high arsenic content by copper-chloride synergistic reduction. <i>Chemosphere</i> , 2020, 238, 124675.	8.2	30
24	Separation and recovery of iron and scandium from acid leaching solution of red mud using D201 resin. <i>Journal of Rare Earths</i> , 2020, 38, 1322-1329.	4.8	30
25	An UV-vis spectroelectrochemical approach for rapid detection of phenazines and exploration of their redox characteristics. <i>Biosensors and Bioelectronics</i> , 2015, 64, 25-29.	10.1	29
26	Reductive removal of arsenic from waste acid containing high-acidity and arsenic levels through iodide and copper powder synergy. <i>Chemical Engineering Journal</i> , 2019, 373, 23-30.	12.7	28
27	Aluminum separation by sulfuric acid leaching-solvent extraction from Al-bearing LiFePO ₄ /C powder for recycling of Fe/P. <i>Waste Management</i> , 2022, 144, 303-312.	7.4	27
28	Comparative study on the synthesis of magnetic ferrite adsorbent for the removal of Cd(II) from wastewater. <i>Adsorption Science and Technology</i> , 2018, 36, 1456-1469.	3.2	25
29	Separation and recovery of scandium and titanium from red mud leaching liquor through a neutralization precipitation-acid leaching approach. <i>Journal of Rare Earths</i> , 2021, 39, 1126-1132.	4.8	25
30	Sequential extraction of tungsten from scheelite through roasting and alkaline leaching. <i>Minerals Engineering</i> , 2019, 132, 238-244.	4.3	24
31	Diagnosis of the unexpected fluorescent contaminants in quantifying dissolved organic matter using excitation-emission matrix fluorescence spectroscopy. <i>Water Research</i> , 2019, 163, 114873.	11.3	19
32	Probing Membrane Fouling via Infrared Attenuated Total Reflection Mapping Coupled with Multivariate Curve Resolution. <i>ChemPhysChem</i> , 2016, 17, 358-363.	2.1	18
33	Removal of ammonia-nitrogen in wastewater using a novel poly ligand exchanger-Zn(II)-loaded chelating resin. <i>Water Science and Technology</i> , 2019, 79, 126-136.	2.5	16
34	Coordination-driven Cu-based Fenton-like process for humic acid treatment in wastewater. <i>Science of the Total Environment</i> , 2022, 838, 156462.	8.0	16
35	Removal of Zn(II) from manganese-zinc chloride waste liquor using ion-exchange with D201 resin. <i>Hydrometallurgy</i> , 2019, 190, 105171.	4.3	15
36	Synergistic effect of TiO ₂ -CuWO ₄ on the photocatalytic degradation of atrazine. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12359-12367.	5.3	13

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37	Selective Removal of Iron from Acid Leachate of Red Mud by Aliquat 336. <i>Jom</i> , 2019, 71, 4608-4615.	1.9	12
38	Stripping of Fe(III) from Aliquat 336 by NaH ₂ PO ₄ : implication for rare-earth elements recovery from red mud. <i>Separation Science and Technology</i> , 2021, 56, 301-309.	2.5	12
39	Why Should Tryptones Rather Than Bovine Serum Albumin Be Used as Model Proteins to Explore the Interactions between Proteins and Pollutants in Environments?. <i>Environmental Science and Technology Letters</i> , 2021, 8, 1038-1044.	8.7	11
40	Resin-enhanced acid leaching of tungsten from scheelite. <i>Hydrometallurgy</i> , 2018, 182, 75-81.	4.3	10
41	Kinetics of Roasting Reaction Between Synthetic Scheelite and Magnesium Chloride. <i>Jom</i> , 2019, 71, 2827-2833.	1.9	10
42	Separation of As and Bi and enrichment of As, Cu, and Zn from copper dust using an oxidation-leaching approach. <i>Chinese Journal of Chemical Engineering</i> , 2021, 33, 125-131.	3.5	9
43	Adsorption of fluoride by the calcium alginate embedded with Mg-Al-Ce trimetal oxides. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1636-1641.	2.7	8
44	Integration of resource recycling with de-alkalization for bauxite residue treatment. <i>Hydrometallurgy</i> , 2020, 192, 105263.	4.3	8
45	Application of recycled ferric chloride for alkalinity regulation of bauxite residue. <i>Journal of Cleaner Production</i> , 2021, 305, 127174.	9.3	8
46	Selective separation of copper and zinc from high acid leaching solution of copper dust using a sulfide precipitation-pickling approach. <i>Chemical Engineering Research and Design</i> , 2021, 156, 100-108.	5.6	6
47	Chemical imaging of fresh vascular smooth muscle cell response by epi-detected stimulated Raman scattering. <i>Journal of Biophotonics</i> , 2018, 11, e201700005.	2.3	5
48	Rapid Leaching of Synthetic Scheelite by a Resin-in-Pulp Process. <i>Jom</i> , 2018, 70, 2846-2855.	1.9	5
49	Unveiling the degradation of membrane concentrated landfill leachate during enhanced photocatalysis using spectroscopic approaches. <i>Journal of Water Process Engineering</i> , 2021, 43, 102220.	5.6	5
50	Preparation of Battery-Grade FePO ₄ ·2H ₂ O Using the Stripping Solution Generated from Resource Recycling of Bauxite Residue. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 86-94.	2.7	3
51	Separation and recovery of arsenic from As, Cu, and Zn rich leaching liquor using a reduction-crystallization approach. <i>RSC Advances</i> , 2021, 11, 22426-22432.	3.6	1