

Xiaoli Chai

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,211
citations

257450

24
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

1770
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel micro-granular sludge process for highly efficient treatment of low-strength and low C/N ratio municipal wastewater. <i>Chemosphere</i> , 2022, 287, 132322.	8.2	11
2	Highly efficient solid-liquid separation of anaerobically digested liquor of food waste: Conditioning approach screening and mechanistic analysis. <i>Science of the Total Environment</i> , 2022, 811, 152416.	8.0	4
3	Influential mechanism of water occurrence states of waste-activated sludge: Potential linkage between water-holding capacity and molecular compositions of EPS. <i>Water Research</i> , 2022, 213, 118169.	11.3	34
4	Influential mechanism of water occurrence states of waste-activated sludge: Over-focused significance of cell lysis to bound water reduction. <i>Water Research</i> , 2022, 221, 118737.	11.3	10
5	Mechanism insights into liquid polarity regulation for enhanced dewatering of waste-activated sludge: Specifically focusing on the solid-liquid affinity reduction depending on phase-transfer and conformational features of amphiphilic protein. <i>Water Research</i> , 2022, 221, 118793.	11.3	7
6	Numerical modeling of methane oxidation and emission from landfill cover soil coupling water-heat-gas transfer: Effects of meteorological factors. <i>Chemical Engineering Research and Design</i> , 2021, 146, 647-655.	5.6	17
7	Mechanism insights into polyhydroxyalkanoate-regulated denitrification from the perspective of pericytoplasmic nitrate reductase expression. <i>Science of the Total Environment</i> , 2021, 754, 142083.	8.0	9
8	Environmentally-friendly dewatering of sewage sludge: A novel strategy based on amphiphilic phase-transfer induced by recoverable organic solvent. <i>Chemical Engineering Journal</i> , 2021, 409, 128212.	12.7	9
9	Influential mechanism of water occurrence states of waste-activated sludge: specifically focusing on the roles of EPS micro-spatial distribution and cation-dominated interfacial properties. <i>Water Research</i> , 2021, 202, 117461.	11.3	29
10	Co-immobilization of clinoptilolite and nanostructured hydrated ferric-zirconium binary oxide via polyvinyl alcohol-alginate covalent cross-linking for simultaneous deep removal of aqueous low-level nitrogen and phosphorus. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103354.	4.9	5
11	Effects of Water Level Fluctuations on the Growth Characteristics and Community Succession of Submerged Macrophytes: A Case Study of Yilong Lake, China. <i>Water (Switzerland)</i> , 2021, 13, 2900.	2.7	8
12	Sequestration of Sulphide from Biogas by thermal-treated iron nanoparticles synthesized using tea polyphenols. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 741-750.	2.2	1
13	Implications of municipal solid waste disposal methods in China on greenhouse gas emissions. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, e13372.	2.3	21
14	Effects of plant radial oxygen loss on methane oxidation in landfill cover soil: A simulative study. <i>Waste Management</i> , 2020, 102, 56-64.	7.4	8
15	Critical review on dewatering of sewage sludge: Influential mechanism, conditioning technologies and implications to sludge re-utilizations. <i>Water Research</i> , 2020, 180, 115912.	11.3	343
16	Mercury transport and fate in municipal solid waste landfills and its implications. <i>Biogeochemistry</i> , 2020, 148, 19-29.	3.5	6
17	Effect of temperature on tertiary nitrogen removal from municipal wastewater in a PHBV/PLA-supported denitrification system. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26893-26899.	5.3	19
18	Simulative analysis of vegetation on CH ₄ emission from landfill cover soils: Combined effects of root-water uptake, root radial oxygen loss, and plant-mediated CH ₄ transport. <i>Journal of Cleaner Production</i> , 2019, 234, 18-26.	9.3	7

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19	Unraveling the water states of waste-activated sludge through transverse spin-spin relaxation time of low-field NMR. <i>Water Research</i> , 2019, 155, 266-274.	11.3	43
20	Designing an in situ remediation strategy for polluted surface water bodies through the specific regulation of microbial community. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	5
21	Effect of different carbon sources on denitrification performance, microbial community structure and denitrification genes. <i>Science of the Total Environment</i> , 2018, 634, 195-204.	8.0	197
22	Enhanced phosphate removal using nanostructured hydrated ferric-zirconium binary oxide confined in a polymeric anion exchanger. <i>Chemical Engineering Journal</i> , 2018, 345, 640-647.	12.7	67
23	PHBV polymer supported denitrification system efficiently treated high nitrate concentration wastewater: Denitrification performance, microbial community structure evolution and key denitrifying bacteria. <i>Chemosphere</i> , 2018, 197, 96-104.	8.2	56
24	Development of polymeric iron/zirconium-pillared clinoptilolite for simultaneous removal of multiple inorganic contaminants from wastewater. <i>Chemical Engineering Journal</i> , 2018, 347, 819-827.	12.7	21
25	Characterization of coal gasification slag-based activated carbon and its potential application in lead removal. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 382-391.	2.2	43
26	A simulation model for methane emissions from landfills with interaction of vegetation and cover soil. <i>Waste Management</i> , 2018, 71, 267-276.	7.4	11
27	Development of sludge-derived mesoporous material with loaded nano CaO ₂ and doped Fe for re-utilization of dewatered waste-activated sludge as dewatering aids. <i>Chemical Engineering Journal</i> , 2018, 335, 161-168.	12.7	26
28	A Simulation model for estimating methane oxidation and emission from landfill cover soils. <i>Waste Management</i> , 2018, 77, 426-434.	7.4	20
29	Free-conditioning dewatering of sewage sludge through in situ propane hydrate formation. <i>Water Research</i> , 2018, 145, 464-472.	11.3	25
30	Mechanism insights into bio-floc bound water transformation based on synchrotron X-ray computed microtomography and viscoelastic acoustic response analysis. <i>Water Research</i> , 2018, 142, 480-489.	11.3	42
31	NaHCO ₃ -enhanced sewage sludge thin-layer drying: Drying characteristics and kinetics. <i>Drying Technology</i> , 2017, 35, 1276-1287.	3.1	14
32	Development of nano-CaO ₂ -coated clinoptilolite for enhanced phosphorus adsorption and simultaneous removal of COD and nitrogen from sewage. <i>Chemical Engineering Journal</i> , 2017, 328, 35-43.	12.7	51
33	Mercury emission to the atmosphere from municipal solid waste landfills: A brief review. <i>Atmospheric Environment</i> , 2017, 170, 303-311.	4.1	27
34	Ecosystem activation system (EAS) technology for remediation of eutrophic freshwater. <i>Scientific Reports</i> , 2017, 7, 4818.	3.3	15
35	Exploring the potential of iTRAQ proteomics for tracking the transformation of extracellular proteins from enzyme-disintegrated waste activated sludge. <i>Bioresource Technology</i> , 2017, 225, 75-83.	9.6	32
36	Site-specific diel mercury emission fluxes in landfill: Combined effects of vegetation and meteorological factors. <i>Waste Management</i> , 2017, 59, 247-254.	7.4	10

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37	Development of montmorillonite-supported nano CaO ₂ for enhanced dewatering of waste-activated sludge by synergistic effects of filtration aid and peroxidation. <i>Chemical Engineering Journal</i> , 2017, 307, 418-426.	12.7	39
38	Occurrence State and Molecular Structure Analysis of Extracellular Proteins with Implications on the Dewaterability of Waste-Activated Sludge. <i>Environmental Science & Technology</i> , 2017, 51, 9235-9243.	10.0	174
39	Human health risk assessment of heavy metals in a replaced urban industrial area of Qingdao, China. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 229.	2.7	14
40	Site specific diel methane emission mechanisms in landfills: A field validated process based on vegetation and climate factors. <i>Environmental Pollution</i> , 2016, 218, 673-680.	7.5	24
41	Methane emissions as energy reservoir: Context, scope, causes and mitigation strategies. <i>Progress in Energy and Combustion Science</i> , 2016, 56, 33-70.	31.2	92
42	Novel insights into enhanced dewatering of waste activated sludge based on the durable and efficacious radical generating. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 1151-1163.	1.9	27
43	Hybrid cement-assisted dewatering, solidification and stabilization of sewage sludge with high organic content. <i>Journal of Material Cycles and Waste Management</i> , 2016, 18, 356-365.	3.0	24
44	Enhanced dewatering of waste-activated sludge by composite hydrolysis enzymes. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 627-639.	3.4	40
45	The use of the core-shell structure of zero-valent iron nanoparticles (NZVI) for long-term removal of sulphide in sludge during anaerobic digestion. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 2013-2021.	3.5	31
46	Environmental impacts of a large-scale incinerator with mixed MSW of high water content from a LCA perspective. <i>Journal of Environmental Sciences</i> , 2015, 30, 173-179.	6.1	27
47	Greenhouse gas emission and its potential mitigation process from the waste sector in a large-scale exhibition. <i>Journal of Environmental Sciences</i> , 2015, 31, 44-50.	6.1	11
48	Enhanced dewatering characteristics of waste activated sludge with Fenton pretreatment: effectiveness and statistical optimization. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 267-276.	6.0	38
49	Indicating landfill stabilization state by using leachate property from Laogang Refuse Landfill. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 405-410.	6.0	4
50	Emission characteristics and air-surface exchange of gaseous mercury at the largest active landfill in Asia. <i>Atmospheric Environment</i> , 2013, 79, 188-197.	4.1	30
51	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 116, 259-265.	9.6	225
52	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 119, 7-14.	9.6	158