

Ruyuan Jiao

List of Publications by Year in descending order

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28
papers

578
citations

623734

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458
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#	ARTICLE	IF	CITATIONS
1	Decomposition of Al13 promoted by salicylic acid under acidic condition: Mechanism study by differential mass spectrometry method and DFT calculation. <i>Journal of Environmental Sciences</i> , 2023, 126, 423-433.	6.1	3
2	Enhanced chemodiversity, distinctive molecular signature and diurnal dynamics of dissolved organic matter in streams of two headwater catchments, Southeastern China. <i>Water Research</i> , 2022, 211, 118052.	11.3	6
3	Turnover of dissolved organic carbon fuels nocturnal CO2 emissions from a headwater catchment reservoir, Southeastern China: Effects of ecosystem metabolism on source partitioning of CO2 emissions. <i>Journal of Environmental Sciences</i> , 2022, 121, 98-111.	6.1	3
4	Design and coagulation mechanism of a new functional composite coagulant in removing humic acid. <i>Separation and Purification Technology</i> , 2022, 292, 121016.	7.9	12
5	Aggregation, settling characteristics and destabilization mechanisms of nano-particles under different conditions. <i>Science of the Total Environment</i> , 2022, 827, 154228.	8.0	7
6	Impact of <i>M. aeruginosa</i> on fluoride removal efficiency of AlCl3 and FeCl3 coagulants and the mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107691.	6.7	4
7	Variations in NOM during floc aging: Effect of typical Al-based coagulants and different particle sizes. <i>Water Research</i> , 2022, 218, 118486.	11.3	18
8	Effect of low-temperature thermal drying on malodorous volatile organic compounds (MVOCs) emission of wastewater sludge: The relationship with microbial communities. <i>Environmental Pollution</i> , 2022, 306, 119423.	7.5	4
9	The difference of aggregation mechanism between microplastics and nanoplastics: Role of Brownian motion and structural layer force. <i>Environmental Pollution</i> , 2021, 268, 115942.	7.5	49
10	Influence of particle size on the aggregation behavior of nanoparticles: Role of structural hydration layer. <i>Journal of Environmental Sciences</i> , 2021, 103, 33-42.	6.1	34
11	Limitations of GC-QTOF-MS Technique in Identification of Odorous Compounds from Wastewater: The Application of GC-IMS as Supplement for Odor Profiling. <i>Atmosphere</i> , 2021, 12, 265.	2.3	9
12	Pre-aggregation of Al13 in optimizing coagulation for removal of humic acid. <i>Chemosphere</i> , 2021, 277, 130268.	8.2	27
13	Coagulation removal of phosphorus from a southern China reservoir in different stages of algal blooms: Performance evaluation and Al P matching principle analysis. <i>Science of the Total Environment</i> , 2021, 782, 146849.	8.0	15
14	Deprotonation and aggregation of Al13 under alkaline titration: A simulating study related to coagulation process. <i>Water Research</i> , 2021, 203, 117562.	11.3	19
15	Formation of Al3O aggregates and its correlation to the coagulation effect. <i>Chemosphere</i> , 2021, 278, 130493.	8.2	9
16	Advances in micro interfacial phenomena of adsorptive micellar flocculation: Principles and application for water treatment. <i>Water Research</i> , 2021, 202, 117414.	11.3	26
17	Effects of stream ecosystem metabolisms on CO2 emissions in two headwater catchments, Southeastern China. <i>Ecological Indicators</i> , 2021, 130, 108136.	6.3	6
18	Profiling and characterization of odorous volatile compounds from the industrial fermentation of erythromycin. <i>Environmental Pollution</i> , 2019, 255, 113130.	7.5	18

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19	Optimized coagulation pathway of Al ₁₃ : Effect of in-situ Aggregation of Al ₁₃ . <i>Chemosphere</i> , 2019, 230, 76-83.	8.2	24
20	Cu(I)-doped Fe ₃ O ₄ nanoparticles/porous C composite for enhanced H ₂ O ₂ oxidation of carbamazepine. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 16-25.	9.4	22
21	The influence of particle size and concentration combined with pH on coagulation mechanisms. <i>Journal of Environmental Sciences</i> , 2019, 82, 39-46.	6.1	70
22	Efficient purification of Al ₃₀ by organic complexation method. <i>Journal of Environmental Sciences</i> , 2019, 80, 240-247.	6.1	11
23	Study on the effects of organic matter characteristics on the residual aluminum and flocs in coagulation processes. <i>Journal of Environmental Sciences</i> , 2018, 63, 307-317.	6.1	16
24	Influence of coagulation mechanisms and floc formation on filterability. <i>Journal of Environmental Sciences</i> , 2017, 57, 338-345.	6.1	34
25	Roles of coagulant species and mechanisms on floc characteristics and filterability. <i>Chemosphere</i> , 2016, 150, 211-218.	8.2	28
26	Influence of coagulation mechanisms on the residual aluminum “ The roles of coagulant species and MW of organic matter. <i>Journal of Hazardous Materials</i> , 2015, 290, 16-25.	12.4	73
27	Organic removal assessment at full-scale treatment facilities using advanced organic characterization tools. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2451-2459.	3.5	15
28	Relative importance of hydrolyzed Al species (Al _a , Al _b , Al _c) on residual Al and effects of nano-particles (Fe-surface modified TiO ₂ and Al ₂ O ₃) on coagulation process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 139-150.	4.7	14