Ruyuan Jiao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2624970/publications.pdf

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28	578	623734	642732
papers	citations	14 h-index	23 g-index

29	29	29	458
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of coagulation mechanisms on the residual aluminum â€“ The roles of coagulant species and MW of organic matter. Journal of Hazardous Materials, 2015, 290, 16-25.	12.4	73
2	The influence of particle size and concentration combined with pH on coagulation mechanisms. Journal of Environmental Sciences, 2019, 82, 39-46.	6.1	70
3	The difference of aggregation mechanism between microplastics and nanoplastics: Role of Brownian motion and structural layer force. Environmental Pollution, 2021, 268, 115942.	7.5	49
4	Influence of coagulation mechanisms and floc formation on filterability. Journal of Environmental Sciences, 2017, 57, 338-345.	6.1	34
5	Influence of particle size on the aggregation behavior of nanoparticles: Role of structural hydration layer. Journal of Environmental Sciences, 2021, 103, 33-42.	6.1	34
6	Roles of coagulant species and mechanisms on floc characteristics and filterability. Chemosphere, 2016, 150, 211-218.	8.2	28
7	Pre-aggregation of Al13 in optimizing coagulation for removal of humic acid. Chemosphere, 2021, 277, 130268.	8.2	27
8	Advances in micro interfacial phenomena of adsorptive micellar flocculation: Principles and application for water treatment. Water Research, 2021, 202, 117414.	11.3	26
9	Optimized coagulation pathway of Al13: Effect of in-situ Aggregation of Al13. Chemosphere, 2019, 230, 76-83.	8.2	24
10	Cu(I)-doped Fe3O4 nanoparticles/porous C composite for enhanced H2O2 oxidation of carbamazepine. Journal of Colloid and Interface Science, 2019, 551, 16-25.	9.4	22
11	Deprotonation and aggregation of Al13 under alkaline titration: A simulating study related to coagulation process. Water Research, 2021, 203, 117562.	11.3	19
12	Profiling and characterization of odorous volatile compounds from the industrial fermentation of erythromycin. Environmental Pollution, 2019, 255, 113130.	7.5	18
13	Variations in NOM during floc aging: Effect of typical Al-based coagulants and different particle sizes. Water Research, 2022, 218, 118486.	11.3	18
14	Study on the effects of organic matter characteristics on the residual aluminum and flocs in coagulation processes. Journal of Environmental Sciences, 2018, 63, 307-317.	6.1	16
15	Organic removal assessment at full-scale treatment facilities using advanced organic characterization tools. Environmental Sciences: Processes and Impacts, 2014, 16, 2451-2459.	3.5	15
16	Coagulation removal of phosphorus from a southern China reservoir in different stages of algal blooms: Performance evaluation and Al P matching principle analysis. Science of the Total Environment, 2021, 782, 146849.	8.0	15
17	Relative importance of hydrolyzed Al species (Ala, Alb, Alc) on residual Al and effects of nano-particles (Fe-surface modified TiO2 and Al2O3) on coagulation process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 139-150.	4.7	14
18	Design and coagulation mechanism of a new functional composite coagulant in removing humic acid. Separation and Purification Technology, 2022, 292, 121016.	7.9	12

#	Article	IF	Citations
19	Efficient purification of Al30 by organic complexation method. Journal of Environmental Sciences, 2019, 80, 240-247.	6.1	11
20	Limitations of GC-QTOF-MS Technique in Identification of Odorous Compounds from Wastewater: The Application of GC-IMS as Supplement for Odor Profiling. Atmosphere, 2021, 12, 265.	2.3	9
21	Formation of Al30 aggregates and its correlation to the coagulation effect. Chemosphere, 2021, 278, 130493.	8.2	9
22	Aggregation, settling characteristics and destabilization mechanisms of nano-particles under different conditions. Science of the Total Environment, 2022, 827, 154228.	8.0	7
23	Effects of stream ecosystem metabolisms on CO2 emissions in two headwater catchments, Southeastern China. Ecological Indicators, 2021, 130, 108136.	6.3	6
24	Enhanced chemodiversity, distinctive molecular signature and diurnal dynamics of dissolved organic matter in streams of two headwater catchments, Southeastern China. Water Research, 2022, 211, 118052.	11.3	6
25	Impact of M. aeruginosa on fluoride removal efficiency of AlCl3 and FeCl3 coagulants and the mechanism. Journal of Environmental Chemical Engineering, 2022, 10, 107691.	6.7	4
26	Effect of low-temperature thermal drying on malodorous volatile organic compounds (MVOCs) emission of wastewater sludge: The relationship with microbial communities. Environmental Pollution, 2022, 306, 119423.	7.5	4
27	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. Journal of Environmental Sciences, 2022, 121, 98-111.	6.1	3
28	Decomposition of Al13 promoted by salicylic acid under acidic condition: Mechanism study by differential mass spectrometry method and DFT calculation. Journal of Environmental Sciences, 2023, 126, 423-433.	6.1	3