

Jiaheng Teng

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,210
citations

516710

16
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610901

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all docs

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docs citations

24
times ranked

844
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified thermodynamic mechanism underlying fouling behaviors of soluble microbial products (SMPs) in a membrane bioreactor. <i>Water Research</i> , 2019, 149, 477-487.	11.3	203
2	Different fouling propensities of loosely and tightly bound extracellular polymeric substances (EPSs) and the related fouling mechanisms in a membrane bioreactor. <i>Chemosphere</i> , 2020, 255, 126953.	8.2	112
3	Novel insights into membrane fouling in a membrane bioreactor: Elucidating interfacial interactions with real membrane surface. <i>Chemosphere</i> , 2018, 210, 769-778.	8.2	97
4	Effects of molecular weight distribution of soluble microbial products (SMPs) on membrane fouling in a membrane bioreactor (MBR): Novel mechanistic insights. <i>Chemosphere</i> , 2020, 248, 126013.	8.2	97
5	Membrane fouling by alginate in polyaluminum chloride (PACl) coagulation/microfiltration process: Molecular insights. <i>Separation and Purification Technology</i> , 2020, 236, 116294.	7.9	79
6	Mechanism analyses of high specific filtration resistance of gel and roles of gel elasticity related with membrane fouling in a membrane bioreactor. <i>Bioresource Technology</i> , 2018, 257, 39-46.	9.6	75
7	Application of radial basis function artificial neural network to quantify interfacial energies related to membrane fouling in a membrane bioreactor. <i>Bioresource Technology</i> , 2019, 293, 122103.	9.6	74
8	New insights into membrane fouling by alginate: Impacts of ionic strength in presence of calcium ions. <i>Chemosphere</i> , 2020, 246, 125801.	8.2	73
9	Novel insights into membrane fouling caused by gel layer in a membrane bioreactor: Effects of hydrogen bonding. <i>Bioresource Technology</i> , 2019, 276, 219-225.	9.6	65
10	Molecular insights into the impacts of iron(III) ions on membrane fouling by alginate. <i>Chemosphere</i> , 2020, 242, 125232.	8.2	64
11	Fundamental thermodynamic mechanisms of membrane fouling caused by transparent exopolymer particles (TEP) in water treatment. <i>Science of the Total Environment</i> , 2022, 820, 153252.	8.0	45
12	Integrating microbial electrolysis cell based on electrochemical carbon dioxide reduction into anaerobic osmosis membrane reactor for biogas upgrading. <i>Water Research</i> , 2021, 190, 116679.	11.3	41
13	Effects of polysaccharides' molecular structure on membrane fouling and the related mechanisms. <i>Science of the Total Environment</i> , 2022, 836, 155579.	8.0	41
14	Mechanistic insights into Ca-alginate gel-associated membrane fouling affected by ethylene diamine tetraacetic acid (EDTA). <i>Science of the Total Environment</i> , 2022, 842, 156912.	8.0	38
15	Novel molecular level insights into forward osmosis membrane fouling affected by reverse diffusion of draw solutions based on thermodynamic mechanisms. <i>Journal of Membrane Science</i> , 2021, 620, 118815.	8.2	25
16	Customized thin and loose cake layer to mitigate membrane fouling in an electro-assisted anaerobic forward osmosis membrane bioreactor (AnOMEBR). <i>Science of the Total Environment</i> , 2020, 729, 138663.	8.0	17
17	Molecular level insights into the dynamic evolution of forward osmosis fouling via thermodynamic modeling and quantum chemistry calculation: Effect of protein/polysaccharide ratios. <i>Journal of Membrane Science</i> , 2022, 655, 120588.	8.2	13
18	Enhanced water and energy recovery from anaerobic osmotic membrane bioreactors treating waste activated sludge based on the draw solution concentration and temperature regulation. <i>Chemical Engineering Journal</i> , 2021, 417, 129325.	12.7	12

#	ARTICLE	IF	CITATIONS
19	Synergistic fouling behaviors and thermodynamic mechanisms of proteins and polysaccharides in forward osmosis: The unique role of reverse solute diffusion. <i>Desalination</i> , 2022, 536, 115850.	8.2	9
20	Impacts of applied voltage on forward osmosis process harvesting microalgae: Filtration behaviors and lipid extraction efficiency. <i>Science of the Total Environment</i> , 2021, 773, 145678.	8.0	8
21	A unified thermodynamic fouling mechanism based on forward osmosis membrane unique properties: An asymmetric structure and reverse solute diffusion. <i>Science of the Total Environment</i> , 2022, 808, 152219.	8.0	8
22	Mutual effects of CO ₂ absorption and H ₂ -mediated electromethanogenesis triggering efficient biogas upgrading. <i>Science of the Total Environment</i> , 2022, 818, 151732.	8.0	7
23	Antibacterial thin film nanocomposite forward osmosis membranes produced by in-situ reduction of selenium nanoparticles. <i>Chemical Engineering Research and Design</i> , 2021, 153, 403-412.	5.6	6
24	Novel insights into gel layer fouling in forward osmosis process based on thermodynamic analysis: Role of reverse salt diffusion. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105479.	6.7	1