Kibeak Lee

List of Publications by Year
in descending order

32 papers	1,421 citations	516215 16 h-index	433756 31 g-index
32 all docs	32 docs citations	32 times ranked	1489 citing authors

#	Article	IF	Citations
1	Graphene oxide nanoplatelets composite membrane with hydrophilic and antifouling properties for wastewater treatment. Journal of Membrane Science, 2013, 448, 223-230.	4.1	522
2	Crossing the Border between Laboratory and Field: Bacterial Quorum Quenching for Anti-Biofouling Strategy in an MBR. Environmental Science & Technology, 2016, 50, 1788-1795.	4.6	134
3	Quorum sensing and quenching in membrane bioreactors: Opportunities and challenges for biofouling control. Bioresource Technology, 2018, 270, 656-668.	4.8	95
4	More Efficient Media Design for Enhanced Biofouling Control in a Membrane Bioreactor: Quorum Quenching Bacteria Entrapping Hollow Cylinder. Environmental Science & Technology, 2016, 50, 8596-8604.	4.6	64
5	Application of quorum quenching bacteria entrapping sheets to enhance biofouling control in a membrane bioreactor with a hollow fiber module. Journal of Membrane Science, 2017, 526, 264-271.	4.1	64
6	Fungal Quorum Quenching: A Paradigm Shift for Energy Savings in Membrane Bioreactor (MBR) for Wastewater Treatment. Environmental Science & Technology, 2016, 50, 10914-10922.	4.6	59
7	Microbial population dynamics and proteomics in membrane bioreactors with enzymatic quorum quenching. Applied Microbiology and Biotechnology, 2013, 97, 4665-4675.	1.7	52
8	Effective quorum quenching bacteria dose for anti-fouling strategy in membrane bioreactors utilizing fixed-sheet media. Journal of Membrane Science, 2018, 562, 18-25.	4.1	52
9	Core-shell structured quorum quenching beads for more sustainable anti-biofouling in membrane bioreactors. Water Research, 2019, 150, 321-329.	5.3	48
10	Highly robust and efficient Ti-based Sb-SnO2 anode with a mixed carbon and nitrogen interlayer for electrochemical 1,4-dioxane removal from water. Chemical Engineering Journal, 2020, 393, 124794.	6.6	43
11	Stopping Autoinducer-2 Chatter by Means of an Indigenous Bacterium (Acinetobacter sp. DKY-1): A New Antibiofouling Strategy in a Membrane Bioreactor for Wastewater Treatment. Environmental Science & Technology, 2018, 52, 6237-6245.	4.6	37
12	Photolytic quorum quenching: A new anti-biofouling strategy for membrane bioreactors. Chemical Engineering Journal, 2019, 378, 122235.	6.6	31
13	Effect of the Shape and Size of Quorum-Quenching Media on Biofouling Control in Membrane Bioreactors for Wastewater Treatment. Journal of Microbiology and Biotechnology, 2016, 26, 1746-1754.	0.9	24
14	Porous shell quorum quenching balls for enhanced anti-biofouling efficacy and media durability in membrane bioreactors. Chemical Engineering Journal, 2021, 406, 126869.	6.6	21
15	Clues to membrane fouling hidden within the microbial communities of membrane bioreactors. Environmental Science: Water Research and Technology, 2019, 5, 1389-1399.	1.2	20
16	Membrane biofouling behaviors at cold temperatures in pilot-scale hollow fiber membrane bioreactors with quorum quenching. Biofouling, 2018, 34, 912-924.	0.8	18
17	Quorum quenching, biological characteristics, and microbial community dynamics as key factors for combating fouling of membrane bioreactors. Npj Clean Water, 2021, 4, .	3.1	17
18	Quorum quenching bacteria isolated from industrial wastewater sludge to control membrane biofouling. Bioresource Technology, 2022, 352, 127077.	4.8	16

#	Article	IF	Citations
19	Innovative Biofouling Control for Membrane Bioreactors in Cold Regions by Inducing Environmental Adaptation in Quorum-Quenching Bacteria. Environmental Science & Technology, 2022, 56, 4396-4403.	4.6	15
20	Impact of Encapsulated Quorum-Quenching Bacterial Dose and Feed Type on Biofouling Control in Membrane Bioreactors. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	14
21	Live membrane filters with immobilized quorum quenching bacterial strains for anti-biofouling. Journal of Membrane Science, 2022, 641, 119895.	4.1	14
22	Enhancing the Physical Properties and Lifespan of Bacterial Quorum Quenching Media through Combination of Ionic Cross-Linking and Dehydration. Journal of Microbiology and Biotechnology, 2017, 27, 552-560.	0.9	11
23	In situ versus pre-quorum quenching of microbial signaling for enhanced biofouling control in membrane bioreactors. Journal of Membrane Science, 2019, 592, 117387.	4.1	10
24	Quorum sensing: an emerging link between temperature and membrane biofouling in membrane bioreactors. Biofouling, 2019, 35, 443-453.	0.8	9
25	Preparation of a mesoporous silica quorum quenching medium for wastewater treatment using a membrane bioreactor. Biofouling, 2020, 36, 369-377.	0.8	9
26	Mitigation of Membrane Biofouling in MBR Using a Cellulolytic Bacterium, Undibacterium sp. DM-1, Isolated from Activated Sludge. Journal of Microbiology and Biotechnology, 2017, 27, 573-583.	0.9	7
27	Layered Antibiofouling Composite Membrane for Quenching Bacterial Signaling. Membranes, 2022, 12, 296.	1.4	5
28	Roles of soluble microbial products and extracellular polymeric substances in membrane fouling. , 2020, , 45-79.		4
29	Photolytic quorum quenching effects on the microbial communities and functional gene expressions in membrane bioreactors. Science of the Total Environment, 2022, 819, 152017.	3.9	3
30	Effect of Permeate Flux and Backwashing on Quorum Sensing and Quenching within Biocake Layer in Membrane Bioreactor. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	1
31	A Facile HPLC-UV-Based Method for Determining the Concentration of the Bacterial Universal Signal Autoinducer-2 in Environmental Samples. Applied Sciences (Switzerland), 2021, 11, 9116.	1.3	1
32	Impact of Seasonality on Quorum Quenching Efficacy and Stability for Biofouling Control in Membrane Bioreactors. Advances in Science, Technology and Innovation, 2020, , 179-181.	0.2	1