Wenxiang Zhang

List of Publications by Year
in descending order

30 papers	2,130 citations	361413 20 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	2205 citing authors

#	Article	IF	Citations
1	Life cycle assessment of combustion-based electricity generation technologies integrated with carbon capture and storage: A review. Environmental Research, 2022, 207, 112219.	7.5	45
2	Insights into the role of concentration polarization on the membrane fouling and cleaning during the aerobic granular sludge filtration process. Science of the Total Environment, 2022, 813, 151871.	8.0	7
3	Enzyme-enhanced adsorption of laccase immobilized graphene oxide for micro-pollutant removal. Separation and Purification Technology, 2022, 294, 121178.	7.9	19
4	Laccase immobilization for water purification: A comprehensive review. Chemical Engineering Journal, 2021, 403, 126272.	12.7	168
5	Aerobic granular sludge (AGS) scouring to mitigate membrane fouling: Performance, hydrodynamic mechanism and contribution quantification model. Water Research, 2021, 188, 116518.	11.3	169
6	Bioinspired proteolytic membrane (BPM) with bilayer pepsin structure for protein hydrolysis. Separation and Purification Technology, 2021, 259, 118214.	7.9	7
7	Gas, Water and Solid Waste Treatment Technology. Processes, 2021, 9, 1397.	2.8	1
8	Activated carbon-gravity driven biomimetic membrane (AC-GDBM) for organic micro-polluted water treatment. Journal of Cleaner Production, 2021, 317, 128224.	9.3	8
9	Boron-doped diamond (BDD) electro-oxidation coupled with nanofiltration for secondary wastewater treatment: Antibiotics degradation and biofouling. Environment International, 2021, 146, 106291.	10.0	29
10	Treatment of soy sauce wastewater with biomimetic dynamic membrane for colority removal and chemical oxygen demand lowering. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20210425.	0.8	2
11	Laccase-Carbon nanotube nanocomposites for enhancing dyes removal. Journal of Cleaner Production, 2020, 242, 118425.	9.3	65
12	Biomimetic dynamic membrane (BDM): Fabrication method and roles of carriers and laccase. Chemosphere, 2020, 240, 124882.	8.2	20
13	CO2 capture from coalbed methane using membranes: a review. Environmental Chemistry Letters, 2020, 18, 79-96.	16.2	46
14	Gravity-driven biomimetic membrane (GDBM): An ecological water treatment technology for water purification in the open natural water system. Chemical Engineering Journal, 2020, 399, 125650.	12.7	48
15	The role of transparent exopolymer particles (TEP) in membrane fouling: A critical review. Water Research, 2020, 181, 115930.	11.3	128
16	Membrane fouling in aerobic granular sludge (AGS)-membrane bioreactor (MBR): Effect of AGS size. Water Research, 2019, 157, 445-453.	11.3	227
17	Biomimetic dynamic membrane for aquatic dye removal. Water Research, 2019, 151, 243-251.	11.3	295
18	Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. Bioresource Technology, 2018, 247, 591-598.	9.6	41

#	Article	IF	Citations
19	Optimization of RDM-UF for alfalfa wastewater treatment using RSM. Environmental Science and Pollution Research, 2018, 25, 1439-1447.	5.3	12
20	Membrane fouling mechanism of biofilm-membrane bioreactor (BF-MBR): Pore blocking model and membrane cleaning. Bioresource Technology, 2018, 250, 398-405.	9.6	82
21	A review on agro-industrial waste (AIW) derived adsorbents for water and wastewater treatment. Journal of Environmental Management, 2018, 227, 395-405.	7.8	292
22	Determination of the profile of DO and its mass transferring coefficient in a biofilm reactor packed with semi-suspended bio-carriers. Bioresource Technology, 2017, 241, 54-62.	9.6	40
23	Research Progress in Biofilm-Membrane Bioreactor: A Critical Review. Industrial & Engineering Chemistry Research, 2017, 56, 6900-6909.	3.7	24
24	A short review on the research progress in alfalfa leaf protein separation technology. Journal of Chemical Technology and Biotechnology, 2017, 92, 2894-2900.	3.2	26
25	Cover Image, Volume 92, Issue 12. Journal of Chemical Technology and Biotechnology, 2017, 92, i-i.	3.2	0
26	Stepwise membrane fouling model for shear-enhanced filtration of alfalfa juice: experimental and modeling studies. RSC Advances, 2016, 6, 110789-110798.	3.6	3
27	Concentration of Milk Proteins for Producing Cheese Using a Shear-Enhanced Ultrafiltration Technique. Industrial & Engineering Chemistry Research, 2016, 55, 11130-11138.	3.7	15
28	Membrane fouling in photocatalytic membrane reactors (PMRs) for water and wastewater treatment: A critical review. Chemical Engineering Journal, 2016, 302, 446-458.	12.7	225
29	Threshold flux and limiting flux for micellar enhanced ultrafiltration as affected by feed water: experimental and modeling studies. Journal of Cleaner Production, 2016, 112, 1241-1251.	9.3	30
30	Leaf protein concentration of alfalfa juice by membrane technology. Journal of Membrane Science, 2015, 489, 183-193.	8.2	56