

Wenxiang Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2285095/publications.pdf>

Version: 2024-02-01

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 | Biomimetic dynamic membrane for aquatic dye removal. <i>Water Research</i> , 2019, 151, 243-251. | 11.3 | 295 |
| 2 | A review on agro-industrial waste (AIW) derived adsorbents for water and wastewater treatment. <i>Journal of Environmental Management</i> , 2018, 227, 395-405. | 7.8 | 292 |
| 3 | Membrane fouling in aerobic granular sludge (AGS)-membrane bioreactor (MBR): Effect of AGS size. <i>Water Research</i> , 2019, 157, 445-453. | 11.3 | 227 |
| 4 | Membrane fouling in photocatalytic membrane reactors (PMRs) for water and wastewater treatment: A critical review. <i>Chemical Engineering Journal</i> , 2016, 302, 446-458. | 12.7 | 225 |
| 5 | Aerobic granular sludge (AGS) scouring to mitigate membrane fouling: Performance, hydrodynamic mechanism and contribution quantification model. <i>Water Research</i> , 2021, 188, 116518. | 11.3 | 169 |
| 6 | Laccase immobilization for water purification: A comprehensive review. <i>Chemical Engineering Journal</i> , 2021, 403, 126272. | 12.7 | 168 |
| 7 | The role of transparent exopolymer particles (TEP) in membrane fouling: A critical review. <i>Water Research</i> , 2020, 181, 115930. | 11.3 | 128 |
| 8 | Membrane fouling mechanism of biofilm-membrane bioreactor (BF-MBR): Pore blocking model and membrane cleaning. <i>Bioresource Technology</i> , 2018, 250, 398-405. | 9.6 | 82 |
| 9 | Laccase-Carbon nanotube nanocomposites for enhancing dyes removal. <i>Journal of Cleaner Production</i> , 2020, 242, 118425. | 9.3 | 65 |
| 10 | Leaf protein concentration of alfalfa juice by membrane technology. <i>Journal of Membrane Science</i> , 2015, 489, 183-193. | 8.2 | 56 |
| 11 | Gravity-driven biomimetic membrane (GDBM): An ecological water treatment technology for water purification in the open natural water system. <i>Chemical Engineering Journal</i> , 2020, 399, 125650. | 12.7 | 48 |
| 12 | CO ₂ capture from coalbed methane using membranes: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 79-96. | 16.2 | 46 |
| 13 | Life cycle assessment of combustion-based electricity generation technologies integrated with carbon capture and storage: A review. <i>Environmental Research</i> , 2022, 207, 112219. | 7.5 | 45 |
| 14 | Insight into the microbial community and its succession of a coupling anaerobic-aerobic biofilm on semi-suspended bio-carriers. <i>Bioresource Technology</i> , 2018, 247, 591-598. | 9.6 | 41 |
| 15 | Determination of the profile of DO and its mass transferring coefficient in a biofilm reactor packed with semi-suspended bio-carriers. <i>Bioresource Technology</i> , 2017, 241, 54-62. | 9.6 | 40 |
| 16 | Threshold flux and limiting flux for micellar enhanced ultrafiltration as affected by feed water: experimental and modeling studies. <i>Journal of Cleaner Production</i> , 2016, 112, 1241-1251. | 9.3 | 30 |
| 17 | Boron-doped diamond (BDD) electro-oxidation coupled with nanofiltration for secondary wastewater treatment: Antibiotics degradation and biofouling. <i>Environment International</i> , 2021, 146, 106291. | 10.0 | 29 |
| 18 | A short review on the research progress in alfalfa leaf protein separation technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2894-2900. | 3.2 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Research Progress in Biofilm-Membrane Bioreactor: A Critical Review. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6900-6909. | 3.7 | 24 |
| 20 | Biomimetic dynamic membrane (BDM): Fabrication method and roles of carriers and laccase. <i>Chemosphere</i> , 2020, 240, 124882. | 8.2 | 20 |
| 21 | Enzyme-enhanced adsorption of laccase immobilized graphene oxide for micro-pollutant removal. <i>Separation and Purification Technology</i> , 2022, 294, 121178. | 7.9 | 19 |
| 22 | Concentration of Milk Proteins for Producing Cheese Using a Shear-Enhanced Ultrafiltration Technique. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11130-11138. | 3.7 | 15 |
| 23 | Optimization of RDM-UF for alfalfa wastewater treatment using RSM. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1439-1447. | 5.3 | 12 |
| 24 | Activated carbon-gravity driven biomimetic membrane (AC-GDBM) for organic micro-polluted water treatment. <i>Journal of Cleaner Production</i> , 2021, 317, 128224. | 9.3 | 8 |
| 25 | Bioinspired proteolytic membrane (BPM) with bilayer pepsin structure for protein hydrolysis. <i>Separation and Purification Technology</i> , 2021, 259, 118214. | 7.9 | 7 |
| 26 | Insights into the role of concentration polarization on the membrane fouling and cleaning during the aerobic granular sludge filtration process. <i>Science of the Total Environment</i> , 2022, 813, 151871. | 8.0 | 7 |
| 27 | Stepwise membrane fouling model for shear-enhanced filtration of alfalfa juice: experimental and modeling studies. <i>RSC Advances</i> , 2016, 6, 110789-110798. | 3.6 | 3 |
| 28 | Treatment of soy sauce wastewater with biomimetic dynamic membrane for colority removal and chemical oxygen demand lowering. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20210425. | 0.8 | 2 |
| 29 | Gas, Water and Solid Waste Treatment Technology. <i>Processes</i> , 2021, 9, 1397. | 2.8 | 1 |
| 30 | Cover Image, Volume 92, Issue 12. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, i-i. | 3.2 | 0 |