

Ralph Rolly Gonzales

List of Publications by Year in descending order

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36
papers

1,171
citations

331670
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docs citations

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times ranked

1074
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Hydrophilic polyvinyl alcohol coating on hydrophobic electrospun nanofiber membrane for high performance thin film composite forward osmosis membrane. Desalination, 2018, 426, 50-59. | 8.2 | 162 |
| 2 | Effect of severity on dilute acid pretreatment of lignocellulosic biomass and the following hydrogen fermentation. International Journal of Hydrogen Energy, 2016, 41, 21678-21684. | 7.1 | 105 |
| 3 | Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. Desalination, 2019, 459, 10-19. | 8.2 | 72 |
| 4 | Significant roles of substrate properties in forward osmosis membrane performance: A review. Desalination, 2022, 528, 115615. | 8.2 | 55 |
| 5 | Optimization of substrate concentration of dilute acid hydrolyzate of lignocellulosic biomass in batch hydrogen production. International Biodeterioration and Biodegradation, 2016, 113, 22-27. | 3.9 | 52 |
| 6 | Salinity gradient energy generation by pressure retarded osmosis: A review. Desalination, 2021, 500, 114841. | 8.2 | 52 |
| 7 | Tailored thin film nanocomposite membrane incorporated with Noria for simultaneously overcoming the permeability-selectivity trade-off and the membrane fouling in nanofiltration process. Journal of Membrane Science, 2021, 640, 119863. | 8.2 | 49 |
| 8 | Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. Journal of Membrane Science, 2021, 620, 118901. | 8.2 | 48 |
| 9 | Dark fermentative hydrogen production following the sequential dilute acid pretreatment and enzymatic saccharification of rice husk. International Journal of Hydrogen Energy, 2017, 42, 27577-27583. | 7.1 | 44 |
| 10 | Modification of Nanofiber Support Layer for Thin Film Composite forward Osmosis Membranes via Layer-by-Layer Polyelectrolyte Deposition. Membranes, 2018, 8, 70. | 3.0 | 41 |
| 11 | Enhancement of hydrogen production by optimization of pH adjustment and separation conditions following dilute acid pretreatment of lignocellulosic biomass. International Journal of Hydrogen Energy, 2017, 42, 27502-27511. | 7.1 | 37 |
| 12 | Thin-film composite hollow fiber membranes incorporated with graphene oxide in polyethersulfone support layers for enhanced osmotic power density. Desalination, 2019, 464, 63-75. | 8.2 | 37 |
| 13 | Optimization of dilute acid and enzymatic hydrolysis for dark fermentative hydrogen production from the empty fruit bunch of oil palm. International Journal of Hydrogen Energy, 2019, 44, 2191-2202. | 7.1 | 33 |
| 14 | Facile development of comprehensively fouling-resistant reduced polyketone-based thin film composite forward osmosis membrane for treatment of oily wastewater. Journal of Membrane Science, 2021, 626, 119185. | 8.2 | 33 |
| 15 | Organic solvent mixture separation using fluorine-incorporated thin film composite reverse osmosis membrane. Journal of Materials Chemistry A, 2022, 10, 4146-4156. | 10.3 | 29 |
| 16 | Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. Journal of Membrane Science, 2021, 640, 119801. | 8.2 | 27 |
| 17 | Enhanced water permeability and osmotic power generation with sulfonate-functionalized porous polymer-incorporated thin film nanocomposite membranes. Desalination, 2020, 496, 114756. | 8.2 | 26 |
| 18 | Kinetics and equilibria of 5-hydroxymethylfurfural (5-HMF) sequestration from algal hydrolyzate using granular activated carbon. Journal of Chemical Technology and Biotechnology, 2016, 91, 1157-1163. | 3.2 | 25 |

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|----|---|-----|-----------|
| 19 | Efficient recovery of nitrate from municipal wastewater via MCDI using anion-exchange polymer coated electrode embedded with nitrate selective resin. <i>Desalination</i> , 2020, 484, 114425. | 8.2 | 25 |
| 20 | In situ engineering of an ultrathin polyamphoteric layer on polyketone-based thin film composite forward osmosis membrane for comprehensive anti-fouling performance. <i>Separation and Purification Technology</i> , 2021, 272, 118922. | 7.9 | 25 |
| 21 | Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. <i>Desalination</i> , 2021, 516, 115222. | 8.2 | 21 |
| 22 | Ammonium enrichment and recovery from synthetic and real industrial wastewater by amine-modified thin film composite forward osmosis membranes. <i>Separation and Purification Technology</i> , 2022, 297, 121534. | 7.9 | 20 |
| 23 | GreenPRO: A novel fertiliser-driven osmotic power generation process for fertigation. <i>Desalination</i> , 2018, 447, 158-166. | 8.2 | 19 |
| 24 | Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 642, 119943. | 8.2 | 19 |
| 25 | Novel organic solvent nanofiltration membrane based on inkjet printing-assisted layer-by-layer assembly. <i>Journal of Membrane Science</i> , 2022, 655, 120582. | 8.2 | 19 |
| 26 | Single-step preparation of nanocomposite polyamide 6 hollow fiber membrane with integrally skinned asymmetric structure for organic solvent nanofiltration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126538. | 4.7 | 18 |
| 27 | Surface charge control of poly(methyl methacrylate-co-dimethyl aminoethyl methacrylate)-based membrane for improved fouling resistance. <i>Separation and Purification Technology</i> , 2021, 279, 119778. | 7.9 | 17 |
| 28 | Development of polydimethylsiloxane composite membrane for organic solvent separation. <i>Separation and Purification Technology</i> , 2022, 285, 120369. | 7.9 | 16 |
| 29 | Surface modification of FO membrane for improving ammoniacal nitrogen (NH ₄ ⁺ -N) rejection: Investigating the factors influencing NH ₄ ⁺ -N rejection. <i>Journal of Membrane Science</i> , 2022, 650, 120429. | 8.2 | 10 |
| 30 | Developing a Thin Film Composite Membrane with Hydrophilic Sulfonated Substrate on Nonwoven Backing Fabric Support for Forward Osmosis. <i>Membranes</i> , 2021, 11, 813. | 3.0 | 8 |
| 31 | Molecular dynamics study on the elucidation of polyamide membrane fouling by nonionic surfactants and disaccharides. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20313-20322. | 2.8 | 7 |
| 32 | Effect of polymer-solvent compatibility on polyamide hollow fiber membranes prepared via thermally induced phase separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128704. | 4.7 | 7 |
| 33 | Control of the antagonistic effects of heat-assisted chlorine oxidative degradation on pressure retarded osmosis thin film composite membrane surface. <i>Journal of Membrane Science</i> , 2021, 636, 119567. | 8.2 | 5 |
| 34 | Engineered osmosis “sustainable technology for water recovery, product concentration and energy generation. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1326-1358. | 2.4 | 4 |
| 35 | Simulation of Thermoresponsive Draw Solute-Driven Forward Osmosis for Enhanced Pure Water Production in Seawater Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9548-9559. | 3.7 | 2 |
| 36 | Monoamine-modified thin film composite nanofiltration membrane for permselective separation of fermentation bioproducts. <i>Journal of Applied Polymer Science</i> , 2022, 139, . | 2.6 | 2 |