

Ralph Rolly Gonzales

List of Publications by Year in descending order

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36
papers

1,171
citations

331259

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377514

34
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36
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. <i>Desalination</i> , 2018, 426, 50-59.	4.0	162
2	Effect of severity on dilute acid pretreatment of lignocellulosic biomass and the following hydrogen fermentation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21678-21684.	3.8	105
3	Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. <i>Desalination</i> , 2019, 459, 10-19.	4.0	72
4	Significant roles of substrate properties in forward osmosis membrane performance: A review. <i>Desalination</i> , 2022, 528, 115615.	4.0	55
5	Optimization of substrate concentration of dilute acid hydrolyzate of lignocellulosic biomass in batch hydrogen production. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 22-27.	1.9	52
6	Salinity gradient energy generation by pressure retarded osmosis: A review. <i>Desalination</i> , 2021, 500, 114841.	4.0	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. <i>Journal of Membrane Science</i> , 2021, 640, 119863.	4.1	49
8	Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021, 620, 118901.	4.1	48
9	Dark fermentative hydrogen production following the sequential dilute acid pretreatment and enzymatic saccharification of rice husk. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27577-27583.	3.8	44
10	Modification of Nanofiber Support Layer for Thin Film Composite forward Osmosis Membranes via Layer-by-Layer Polyelectrolyte Deposition. <i>Membranes</i> , 2018, 8, 70.	1.4	41
11	Enhancement of hydrogen production by optimization of pH adjustment and separation conditions following dilute acid pretreatment of lignocellulosic biomass. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27502-27511.	3.8	37
12	Thin-film composite hollow fiber membranes incorporated with graphene oxide in polyethersulfone support layers for enhanced osmotic power density. <i>Desalination</i> , 2019, 464, 63-75.	4.0	37
13	Optimization of dilute acid and enzymatic hydrolysis for dark fermentative hydrogen production from the empty fruit bunch of oil palm. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2191-2202.	3.8	33
14	Facile development of comprehensively fouling-resistant reduced polyketone-based thin film composite forward osmosis membrane for treatment of oily wastewater. <i>Journal of Membrane Science</i> , 2021, 626, 119185.	4.1	33
15	Organic solvent mixture separation using fluorine-incorporated thin film composite reverse osmosis membrane. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4146-4156.	5.2	29
16	Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. <i>Journal of Membrane Science</i> , 2021, 640, 119801.	4.1	27
17	Enhanced water permeability and osmotic power generation with sulfonate-functionalized porous polymer-incorporated thin film nanocomposite membranes. <i>Desalination</i> , 2020, 496, 114756.	4.0	26
18	Kinetics and equilibria of 5-hydroxymethylfurfural (5-HMF) sequestration from algal hydrolyzate using granular activated carbon. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1157-1163.	1.6	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.	4.0	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.	3.9	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.	4.0	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.	3.9	20
23	GreenPRO: A novel fertiliser-driven osmotic power generation process for fertigation. <i>Desalination</i> , 2018, 447, 158-166.	4.0	19
24	Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 642, 119943.	4.1	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.	4.1	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.	2.3	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.	3.9	17
28	Development of polydimethylsiloxane composite membrane for organic solvent separation. <i>Separation and Purification Technology</i> , 2022, 285, 120369.	3.9	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.	4.1	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.	1.4	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.	1.3	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.	2.3	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.	4.1	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.	1.2	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.	1.8	2
36	Monoamine-modified thin film composite nanofiltration membrane for permselective separation of fermentation bioproducts. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	2