

Guy Z Ramon

List of Publications by Year in descending order

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61
papers

2,702
citations

257357

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51
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62
docs citations

62
times ranked

2605
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane-based production of salinity-gradient power. <i>Energy and Environmental Science</i> , 2011, 4, 4423.	15.6	416
2	Thinking the future of membranes: Perspectives for advanced and new membrane materials and manufacturing processes. <i>Journal of Membrane Science</i> , 2020, 598, 117761.	4.1	348
3	Transport through composite membrane, part 1: Is there an optimal support membrane?. <i>Journal of Membrane Science</i> , 2012, 415-416, 298-305.	4.1	200
4	Investigating the void structure of the polyamide active layers of thin-film composite membranes. <i>Journal of Membrane Science</i> , 2016, 497, 365-376.	4.1	178
5	Polyamide desalination membranes: Formation, structure, and properties. <i>Progress in Polymer Science</i> , 2021, 122, 101451.	11.8	123
6	Direct microscopic observation of membrane formation by nonsolvent induced phase separation. <i>Journal of Membrane Science</i> , 2013, 431, 212-220.	4.1	117
7	Low strength graywater characterization and treatment by direct membrane filtration. <i>Desalination</i> , 2004, 170, 241-250.	4.0	103
8	Transport through composite membranes, part 2: Impacts of roughness on permeability and fouling. <i>Journal of Membrane Science</i> , 2013, 425-426, 141-148.	4.1	91
9	Thermodynamic Analysis of Osmotic Energy Recovery at a Reverse Osmosis Desalination Plant. <i>Environmental Science & Technology</i> , 2013, 47, 2982-2989.	4.6	77
10	Impacts of operating conditions and solution chemistry on osmotic membrane structure and performance. <i>Desalination</i> , 2012, 287, 340-349.	4.0	71
11	Impact of liquid-filled voids within the active layer on transport through thin-film composite membranes. <i>Journal of Membrane Science</i> , 2016, 500, 124-135.	4.1	68
12	The open membrane database: Synthesisâ€“structureâ€“performance relationships of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2022, 641, 119927.	4.1	62
13	Temperature measurement of the reaction zone during polyamide film formation by interfacial polymerization. <i>Journal of Membrane Science</i> , 2018, 566, 329-335.	4.1	55
14	Mineral Scale Prevention on Electrically Conducting Membrane Distillation Membranes Using Induced Electrophoretic Mixing. <i>Environmental Science & Technology</i> , 2020, 54, 3678-3690.	4.6	48
15	Osmosis-assisted cleaning of organic-fouled seawater RO membranes. <i>Chemical Engineering Journal</i> , 2013, 218, 173-182.	6.6	47
16	Capillary rise of a meniscus with phase change. <i>Journal of Colloid and Interface Science</i> , 2008, 327, 145-151.	5.0	40
17	Forefronts in structureâ€“performance models of separation membranes. <i>Journal of Membrane Science</i> , 2019, 588, 117166.	4.1	35
18	Scale-up characteristics of membrane-based salinity-gradient power production. <i>Journal of Membrane Science</i> , 2015, 476, 311-320.	4.1	34

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19	Dynamics of an osmotic backwash cycle. <i>Journal of Membrane Science</i> , 2010, 364, 157-166.	4.1	32
20	Experimental characterization and numerical simulation of the anti-biofouling activity of nanosilver-modified feed spacers in membrane filtration. <i>Journal of Membrane Science</i> , 2015, 475, 320-329.	4.1	32
21	Heat transfer in vacuum membrane distillation: Effect of velocity slip. <i>Journal of Membrane Science</i> , 2009, 331, 117-125.	4.1	31
22	Solute dispersion in oscillating electro-osmotic flow with boundary mass exchange. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 97-106.	1.0	31
23	Microscale Dynamics of Oil Droplets at a Membrane Surface: Deformation, Reversibility, and Implications for Fouling. <i>Environmental Science & Technology</i> , 2017, 51, 13842-13849.	4.6	27
24	On the enhanced drag force induced by permeation through a filtration membrane. <i>Journal of Membrane Science</i> , 2012, 392-393, 1-8.	4.1	26
25	On the hydrodynamic interaction between a particle and a permeable surface. <i>Physics of Fluids</i> , 2013, 25, 073103.	1.6	26
26	Theoretical performance characteristics of a travelling-wave phase-change thermoacoustic engine for low-grade heat recovery. <i>Applied Energy</i> , 2020, 261, 114377.	5.1	26
27	Elastic Relaxation of Fluid-Driven Cracks and the Resulting Backflow. <i>Physical Review Letters</i> , 2016, 117, 268001.	2.9	24
28	Low-temperature energy conversion using a phase-change acoustic heat engine. <i>Applied Energy</i> , 2018, 231, 372-379.	5.1	24
29	Re-thinking polyamide thin film formation: How does interfacial destabilization dictate film morphology?. <i>Journal of Membrane Science</i> , 2022, 656, 120593.	4.1	24
30	The effective flux through a thin-film composite membrane. <i>Europhysics Letters</i> , 2015, 110, 40005.	0.7	17
31	Potential application of osmotic backwashing to brackish water desalination membranes. <i>Desalination</i> , 2019, 468, 114029.	4.0	17
32	Adsorption-Mediated Mass Streaming in a Standing Acoustic Wave. <i>Physical Review Letters</i> , 2017, 118, 244301.	2.9	16
33	Dynamics of viscous backflow from a model fracture network. <i>Journal of Fluid Mechanics</i> , 2018, 836, 828-849.	1.4	16
34	Field-Induced Redistribution of Surfactants at the Oil/Water Interface Reduces Membrane Fouling on Electrically Conducting Carbon Nanotube UF Membranes. <i>Environmental Science & Technology</i> , 2018, 52, 11591-11600.	4.6	16
35	Environmentally-sound: An acoustic-driven heat pump based on phase change. <i>Energy Conversion and Management</i> , 2021, 232, 113848.	4.4	16
36	Modeling the effect of film-pore coupled transport on composite forward osmosis membrane performance. <i>Journal of Membrane Science</i> , 2017, 523, 533-541.	4.1	15

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37	Acoustic oscillations driven by boundary mass exchange. <i>Journal of Fluid Mechanics</i> , 2019, 866, 316-349.	1.4	15
38	Theoretical performance characteristics of a travelling-wave phase-change thermoacoustic heat pump. <i>Energy Conversion and Management</i> , 2022, 254, 115202.	4.4	15
39	Solute transport under oscillating electro-osmotic flow in a closed-ended cylindrical pore. <i>Journal of Engineering Mathematics</i> , 2018, 110, 195-205.	0.6	11
40	Periodic energy conversion in an electric-double-layer capacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 675-685.	5.0	10
41	Effect of gas mixture on temperature and mass streaming in a phase-change thermoacoustic engine. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
42	Time-averaged transport in oscillatory squeeze flow of a viscoelastic fluid. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	9
43	A standing-wave, phase-change thermoacoustic engine: Experiments and model projections. <i>Energy</i> , 2022, 258, 124665.	4.5	9
44	Colloidal deposition on polymer-brush-coated NF membranes. <i>Separation and Purification Technology</i> , 2019, 219, 208-215.	3.9	8
45	Phase-dependence of sorption-induced mass streaming in an acoustic field. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
46	Backflow from a model fracture network: an asymptotic investigation. <i>Journal of Fluid Mechanics</i> , 2019, 864, 899-924.	1.4	7
47	Atomic Layer Deposition for Gradient Surface Modification and Controlled Hydrophilization of Ultrafiltration Polymer Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15591-15600.	4.0	7
48	Modeling of micro-scale thermoacoustics. <i>Applied Physics Letters</i> , 2016, 108, 183902.	1.5	6
49	Oil Deposition on Polymer Brush-Coated NF Membranes. <i>Membranes</i> , 2019, 9, 168.	1.4	6
50	Evasive plankton: Size-independent particle capture by ascidians. <i>Limnology and Oceanography</i> , 2021, 66, 1009-1020.	1.6	6
51	Stability of fluid flows coupled by a deformable solid layer. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	1.4	5
52	Hydrodynamic Colloidal Interactions of an Oil Droplet and a Membrane Surface. <i>Langmuir</i> , 2020, 36, 2858-2864.	1.6	5
53	Direct observation of macromolecular deposition on a nanofiltration membrane. <i>Separation Science and Technology</i> , 2017, 52, 258-265.	1.3	4
54	In-situ micro-rheology of a foulant layer at a membrane surface. <i>Journal of Membrane Science</i> , 2021, 640, 119747.	4.1	4

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55	Dynamics of a two-layer flow with an interfacial heat source/sink: viscosity stratification. Journal of Fluid Mechanics, 2022, 934, .	1.4	4
56	The interaction of a particle and a polymer brush coating a permeable surface. Journal of Fluid Mechanics, 2021, 913, .	1.4	3
57	PC-TAS: A design environment for phase-change and classical thermoacoustic systems. SoftwareX, 2022, 19, 101142.	1.2	3
58	Viscous backflow from a model fracture network: influence of a permeable boundary. Journal of Fluid Mechanics, 2021, 911, .	1.4	1
59	Acoustically Driven Sorption Heat Pump. Physical Review Applied, 2021, 16, .	1.5	1
60	Engineered osmosis for pre-concentration of sugar-derived biofuels. RSC Advances, 2013, 3, 11467.	1.7	0
61	Acoustic instability in aerosols. Journal of Engineering Mathematics, 2021, 129, 1.	0.6	0