

Guy Z Ramon

List of Publications by Year in descending order

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61
papers

2,702
citations

293460

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206121

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docs citations

62
times ranked

3035
citing authors

#	ARTICLE	IF	CITATIONS
1	The open membrane database: Synthesisâ€“structureâ€“performance relationships of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2022, 641, 119927.	4.1	62
2	Dynamics of a two-layer flow with an interfacial heat source/sink: viscosity stratification. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	1.4	4
3	Theoretical performance characteristics of a travelling-wave phase-change thermoacoustic heat pump. <i>Energy Conversion and Management</i> , 2022, 254, 115202.	4.4	15
4	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
5	PC-TAS: A design environment for phase-change and classical thermoacoustic systems. <i>SoftwareX</i> , 2022, 19, 101142.	1.2	3
6	A standing-wave, phase-change thermoacoustic engine: Experiments and model projections. <i>Energy</i> , 2022, 258, 124665.	4.5	9
7	Evasive plankton: Sizeâ€“independent particle capture by ascidians. <i>Limnology and Oceanography</i> , 2021, 66, 1009-1020.	1.6	6
8	Viscous backflow from a model fracture network: influence of a permeable boundary. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	1
9	The interaction of a particle and a polymer brush coating a permeable surface. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	1.4	3
10	Environmentally-sound: An acoustic-driven heat pump based on phase change. <i>Energy Conversion and Management</i> , 2021, 232, 113848.	4.4	16
11	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
12	Acoustic instability in aerosols. <i>Journal of Engineering Mathematics</i> , 2021, 129, 1.	0.6	0
13	Polyamide desalination membranes: Formation, structure, and properties. <i>Progress in Polymer Science</i> , 2021, 122, 101451.	11.8	123
14	In-situ micro-rheology of a foulant layer at a membrane surface. <i>Journal of Membrane Science</i> , 2021, 640, 119747.	4.1	4
15	Acoustically Driven Sorption Heat Pump. <i>Physical Review Applied</i> , 2021, 16, .	1.5	1
16	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
17	Stability of fluid flows coupled by a deformable solid layer. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	1.4	5
18	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

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19	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
20	Hydrodynamic Colloidal Interactions of an Oil Droplet and a Membrane Surface. <i>Langmuir</i> , 2020, 36, 2858-2864.	1.6	5
21	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
22	Time-averaged transport in oscillatory squeeze flow of a viscoelastic fluid. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	9
23	Phase-dependence of sorption-induced mass streaming in an acoustic field. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
24	Potential application of osmotic backwashing to brackish water desalination membranes. <i>Desalination</i> , 2019, 468, 114029.	4.0	17
25	Forefronts in structure-performance models of separation membranes. <i>Journal of Membrane Science</i> , 2019, 588, 117166.	4.1	35
26	Acoustic oscillations driven by boundary mass exchange. <i>Journal of Fluid Mechanics</i> , 2019, 866, 316-349.	1.4	15
27	Colloidal deposition on polymer-brush-coated NF membranes. <i>Separation and Purification Technology</i> , 2019, 219, 208-215.	3.9	8
28	Backflow from a model fracture network: an asymptotic investigation. <i>Journal of Fluid Mechanics</i> , 2019, 864, 899-924.	1.4	7
29	Oil Deposition on Polymer Brush-Coated NF Membranes. <i>Membranes</i> , 2019, 9, 168.	1.4	6
30	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
31	Dynamics of viscous backflow from a model fracture network. <i>Journal of Fluid Mechanics</i> , 2018, 836, 828-849.	1.4	16
32	Low-temperature energy conversion using a phase-change acoustic heat engine. <i>Applied Energy</i> , 2018, 231, 372-379.	5.1	24
33	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
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	Periodic energy conversion in an electric-double-layer capacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 675-685.	5.0	10
36	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

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37	Adsorption-Mediated Mass Streaming in a Standing Acoustic Wave. <i>Physical Review Letters</i> , 2017, 118, 244301.	2.9	16
38	Direct observation of macromolecular deposition on a nanofiltration membrane. <i>Separation Science and Technology</i> , 2017, 52, 258-265.	1.3	4
39	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
40	Elastic Relaxation of Fluid-Driven Cracks and the Resulting Backflow. <i>Physical Review Letters</i> , 2016, 117, 268001.	2.9	24
41	Modeling of micro-scale thermoacoustics. <i>Applied Physics Letters</i> , 2016, 108, 183902.	1.5	6
42	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
43	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
44	The effective flux through a thin-film composite membrane. <i>Europhysics Letters</i> , 2015, 110, 40005.	0.7	17
45	Scale-up characteristics of membrane-based salinity-gradient power production. <i>Journal of Membrane Science</i> , 2015, 476, 311-320.	4.1	34
46	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
47	Engineered osmosis for pre-concentration of sugar-derived biofuels. <i>RSC Advances</i> , 2013, 3, 11467.	1.7	0
48	Direct microscopic observation of membrane formation by nonsolvent induced phase separation. <i>Journal of Membrane Science</i> , 2013, 431, 212-220.	4.1	117
49	Osmosis-assisted cleaning of organic-fouled seawater RO membranes. <i>Chemical Engineering Journal</i> , 2013, 218, 173-182.	6.6	47
50	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
51	Thermodynamic Analysis of Osmotic Energy Recovery at a Reverse Osmosis Desalination Plant. <i>Environmental Science & Technology</i> , 2013, 47, 2982-2989.	4.6	77
52	On the hydrodynamic interaction between a particle and a permeable surface. <i>Physics of Fluids</i> , 2013, 25, 073103.	1.6	26
53	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
54	Impacts of operating conditions and solution chemistry on osmotic membrane structure and performance. <i>Desalination</i> , 2012, 287, 340-349.	4.0	71

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55	On the enhanced drag force induced by permeation through a filtration membrane. Journal of Membrane Science, 2012, 392-393, 1-8.	4.1	26
56	Membrane-based production of salinity-gradient power. Energy and Environmental Science, 2011, 4, 4423.	15.6	416
57	Solute dispersion in oscillating electro-osmotic flow with boundary mass exchange. Microfluidics and Nanofluidics, 2011, 10, 97-106.	1.0	31
58	Dynamics of an osmotic backwash cycle. Journal of Membrane Science, 2010, 364, 157-166.	4.1	32
59	Heat transfer in vacuum membrane distillation: Effect of velocity slip. Journal of Membrane Science, 2009, 331, 117-125.	4.1	31
60	Capillary rise of a meniscus with phase change. Journal of Colloid and Interface Science, 2008, 327, 145-151.	5.0	40
61	Low strength graywater characterization and treatment by direct membrane filtration. Desalination, 2004, 170, 241-250.	4.0	103