Guy Z Ramon

List of Publications by Year
in descending order

61	2,702	257450	182427
papers	citations	24 h-index	51 g-index

62	62	62	2605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The open membrane database: Synthesisâ€“structureâ€“performance relationships of reverse osmosis membranes. Journal of Membrane Science, 2022, 641, 119927.	8.2	62
2	Dynamics of a two-layer flow with an interfacial heat source/sink: viscosity stratification. Journal of Fluid Mechanics, 2022, 934, .	3.4	4
3	Theoretical performance characteristics of a travelling-wave phase-change thermoacoustic heat pump. Energy Conversion and Management, 2022, 254, 115202.	9.2	15
4	Re-thinking polyamide thin film formation: How does interfacial destabilization dictate film morphology?. Journal of Membrane Science, 2022, 656, 120593.	8.2	24
5	PC-TAS: A design environment for phase-change and classical thermoacoustic systems. SoftwareX, 2022, 19, 101142.	2.6	3
6	A standing-wave, phase-change thermoacoustic engine: Experiments and model projections. Energy, 2022, 258, 124665.	8.8	9
7	Evasive plankton: Sizeâ€independent particle capture by ascidians. Limnology and Oceanography, 2021, 66, 1009-1020.	3.1	6
8	Viscous backflow from a model fracture network: influence of a permeable boundary. Journal of Fluid Mechanics, 2021, 911, .	3.4	1
9	The interaction of a particle and a polymer brush coating a permeable surface. Journal of Fluid Mechanics, 2021, 913, .	3.4	3
10	Environmentally-sound: An acoustic-driven heat pump based on phase change. Energy Conversion and Management, 2021, 232, 113848.	9.2	16
11	Atomic Layer Deposition for Gradient Surface Modification and Controlled Hydrophilization of Ultrafiltration Polymer Membranes. ACS Applied Materials & Interfaces, 2021, 13, 15591-15600.	8.0	7
12	Acoustic instability in aerosols. Journal of Engineering Mathematics, 2021, 129, 1.	1.2	0
13	Polyamide desalination membranes: Formation, structure, and properties. Progress in Polymer Science, 2021, 122, 101451.	24.7	123
14	In-situ micro-rheology of a foulant layer at a membrane surface. Journal of Membrane Science, 2021, 640, 119747.	8.2	4
15	Acoustically Driven Sorption Heat Pump. Physical Review Applied, 2021, 16, .	3.8	1
16	Thinking the future of membranes: Perspectives for advanced and new membrane materials and manufacturing processes. Journal of Membrane Science, 2020, 598, 117761.	8.2	348
17	Stability of fluid flows coupled by a deformable solid layer. Journal of Fluid Mechanics, 2020, 905, .	3.4	5
18	Effect of gas mixture on temperature and mass streaming in a phase-change thermoacoustic engine. Applied Physics Letters, 2020, 116, .	3.3	9

#	Article	IF	Citations
19	Mineral Scale Prevention on Electrically Conducting Membrane Distillation Membranes Using Induced Electrophoretic Mixing. Environmental Science & Technology, 2020, 54, 3678-3690.	10.0	48
20	Hydrodynamicâ€“Colloidal Interactions of an Oil Droplet and a Membrane Surface. Langmuir, 2020, 36, 2858-2864.	3.5	5
21	Theoretical performance characteristics of a travelling-wave phase-change thermoacoustic engine for low-grade heat recovery. Applied Energy, 2020, 261, 114377.	10.1	26
22	Time-averaged transport in oscillatory squeeze flow of a viscoelastic fluid. Physical Review Fluids, 2020, 5, .	2.5	9
23	Phase-dependence of sorption-induced mass streaming in an acoustic field. Applied Physics Letters, 2019, 115, .	3.3	7
24	Potential application of osmotic backwashing to brackish water desalination membranes. Desalination, 2019, 468, 114029.	8.2	17
25	Forefronts in structureâ€“performance models of separation membranes. Journal of Membrane Science, 2019, 588, 117166.	8.2	35
26	Acoustic oscillations driven by boundary massÂexchange. Journal of Fluid Mechanics, 2019, 866, 316-349.	3.4	15
27	Colloidal deposition on polymer-brush-coated NF membranes. Separation and Purification Technology, 2019, 219, 208-215.	7.9	8
28	Backflow from a model fracture network: anÂasymptotic investigation. Journal of Fluid Mechanics, 2019, 864, 899-924.	3.4	7
29	Oil Deposition on Polymer Brush-Coated NF Membranes. Membranes, 2019, 9, 168.	3.0	6
30	Solute transport under oscillating electro-osmotic flow in a closed-ended cylindrical pore. Journal of Engineering Mathematics, 2018, 110, 195-205.	1.2	11
31	Dynamics of viscous backflow from a model fracture network. Journal of Fluid Mechanics, 2018, 836, 828-849.	3.4	16
32	Low-temperature energy conversion using a phase-change acoustic heat engine. Applied Energy, 2018, 231, 372-379.	10.1	24
33	Temperature measurement of the reaction zone during polyamide film formation by interfacial polymerization. Journal of Membrane Science, 2018, 566, 329-335.	8.2	55
34	Field-Induced Redistribution of Surfactants at the Oil/Water Interface Reduces Membrane Fouling on Electrically Conducting Carbon Nanotube UF Membranes. Environmental Science & Technology, 2018, 52, 11591-11600.	10.0	16
35	Periodic energy conversion in an electric-double-layer capacitor. Journal of Colloid and Interface Science, 2018, 530, 675-685.	9.4	10
36	Microscale Dynamics of Oil Droplets at a Membrane Surface: Deformation, Reversibility, and Implications for Fouling. Environmental Science & Technology, 2017, 51, 13842-13849.	10.0	27

#	Article	IF	Citations
37	Adsorption-Mediated Mass Streaming in a Standing Acoustic Wave. Physical Review Letters, 2017, 118, 244301.	7.8	16
38	Direct observation of macromolecular deposition on a nanofiltration membrane. Separation Science and Technology, 2017, 52, 258-265.	2.5	4
39	Modeling the effect of film-pore coupled transport on composite forward osmosis membrane performance. Journal of Membrane Science, 2017, 523, 533-541.	8.2	15
40	Elastic Relaxation of Fluid-Driven Cracks and the Resulting Backflow. Physical Review Letters, 2016, 117, 268001.	7.8	24
41	Modeling of micro-scale thermoacoustics. Applied Physics Letters, 2016, 108, 183902.	3.3	6
42	Impact of liquid-filled voids within the active layer on transport through thin-film composite membranes. Journal of Membrane Science, 2016, 500, 124-135.	8.2	68
43	Investigating the void structure of the polyamide active layers of thin-film composite membranes. Journal of Membrane Science, 2016, 497, 365-376.	8.2	178
44	The effective flux through a thin-film composite membrane. Europhysics Letters, 2015, 110, 40005.	2.0	17
45	Scale-up characteristics of membrane-based salinity-gradient power production. Journal of Membrane Science, 2015, 476, 311-320.	8.2	34
46	Experimental characterization and numerical simulation of the anti-biofuling activity of nanosilver-modified feed spacers in membrane filtration. Journal of Membrane Science, 2015, 475, 320-329.	8.2	32
47	Engineered osmosis for pre-concentration of sugar-derived biofuels. RSC Advances, 2013, 3, 11467.	3.6	0
48	Direct microscopic observation of membrane formation by nonsolvent induced phase separation. Journal of Membrane Science, 2013, 431, 212-220.	8.2	117
49	Osmosis-assisted cleaning of organic-fouled seawater RO membranes. Chemical Engineering Journal, 2013, 218, 173-182.	12.7	47
50	Transport through composite membranes, part 2: Impacts of roughness on permeability and fouling. Journal of Membrane Science, 2013, 425-426, 141-148.	8.2	91
51	Thermodynamic Analysis of Osmotic Energy Recovery at a Reverse Osmosis Desalination Plant. Environmental Science & Technology, 2013, 47, 2982-2989.	10.0	77
52	On the hydrodynamic interaction between a particle and a permeable surface. Physics of Fluids, 2013, 25, 073103.	4.0	26
53	Transport through composite membrane, part 1: Is there an optimal support membrane?. Journal of Membrane Science, 2012, 415-416, 298-305.	8.2	200
54	Impacts of operating conditions and solution chemistry on osmotic membrane structure and performance. Desalination, 2012, 287, 340-349.	8.2	71

#	Article	IF	Citations
55	On the enhanced drag force induced by permeation through a filtration membrane. Journal of Membrane Science, 2012, 392-393, 1-8.	8.2	26
56	Membrane-based production of salinity-gradient power. Energy and Environmental Science, 2011, 4, 4423.	30.8	416
57	Solute dispersion in oscillating electro-osmotic flow with boundary mass exchange. Microfluidics and Nanofluidics, 2011, 10, 97-106.	2.2	31
58	Dynamics of an osmotic backwash cycle. Journal of Membrane Science, 2010, 364, 157-166.	8.2	32
59	Heat transfer in vacuum membrane distillation: Effect of velocity slip. Journal of Membrane Science, 2009, 331, 117-125.	8.2	31
60	Capillary rise of a meniscus with phase change. Journal of Colloid and Interface Science, 2008, 327, 145-151.	9.4	40
61	Low strength graywater characterization and treatmentby direct membrane filtration. Desalination, 2004, 170, 241-250.	8.2	103