

Robert D Deegan

List of Publications by Year in descending order

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31
papers

9,644
citations

331259

21
h-index

433756

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g-index

32
all docs

32
docs citations

32
times ranked

9166
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse design of self-oscillatory gels through deep learning. <i>Neural Computing and Applications</i> , 2022, 34, 6879.	3.2	0
2	Climbing a slippery slope. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	1.4	2
3	Self-Oscillating Membranes: Chemomechanical Sheets Show Autonomous Periodic Shape Transformation. <i>Physical Review Letters</i> , 2020, 125, 178001.	2.9	18
4	Semi-implicit methods for the dynamics of elastic sheets. <i>Journal of Computational Physics</i> , 2019, 399, 108952.	1.9	6
5	Droplet Translation Actuated by Photoelectrowetting. <i>Langmuir</i> , 2018, 34, 3177-3185.	1.6	9
6	Weakly and strongly coupled Belousov-Zhabotinsky patterns. <i>Physical Review E</i> , 2017, 95, 022215.	0.8	13
7	Ring formation on an inclined surface. <i>Journal of Fluid Mechanics</i> , 2015, 775, .	1.4	33
8	Electrowetting on semiconductors. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	7
9	Quantized orbits in weakly coupled Belousov-Zhabotinsky reactors. <i>Europhysics Letters</i> , 2015, 110, 60004.	0.7	3
10	Drop impact into a deep pool: vortex shedding and jet formation. <i>Journal of Fluid Mechanics</i> , 2015, 764, .	1.4	70
11	Growth and instability of the liquid rim in the crown splash regime. <i>Journal of Fluid Mechanics</i> , 2014, 752, 485-496.	1.4	51
12	Finessing the fracture energy barrier in ballistic seed dispersal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5166-5169.	3.3	36
13	Evolution of the ejecta sheet from the impact of a drop with a deep pool. <i>Journal of Fluid Mechanics</i> , 2012, 690, 5-15.	1.4	81
14	Splashing from drop impact into a deep pool: multiplicity of jets and the failure of conventional scaling. <i>Journal of Fluid Mechanics</i> , 2012, 703, 402-413.	1.4	37
15	Localized structures in vibrated emulsions. <i>Europhysics Letters</i> , 2012, 98, 24002.	0.7	7
16	Stress hysteresis as the cause of persistent holes in particulate suspensions. <i>Physical Review E</i> , 2010, 81, 036319.	0.8	32
17	Strip waves in vibrated shear-thickening wormlike micellar solutions. <i>Physical Review E</i> , 2010, 81, 066310.	0.8	9
18	Wavelength selection in the crown splash. <i>Physics of Fluids</i> , 2010, 22, .	1.6	118

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19	Motion of a drop driven by substrate vibrations. <i>European Physical Journal: Special Topics</i> , 2009, 166, 11-14.	1.2	64
20	Complexities of splashing. <i>Nonlinearity</i> , 2008, 21, C1-C11.	0.6	113
21	Vibration-Induced Climbing of Drops. <i>Physical Review Letters</i> , 2007, 99, 144501.	2.9	162
22	Crumpling, buckling, and cracking: Elasticity of thin sheets. <i>Physics Today</i> , 2007, 60, 33-38.	0.3	42
23	Persistent Holes in a Fluid. <i>Physical Review Letters</i> , 2004, 92, 184501.	2.9	78
24	Cracks in Rubber under Tension Exceed the Shear Wave Speed. <i>Physical Review Letters</i> , 2004, 93, .	2.9	57
25	Wavy and rough cracks in silicon. <i>Physical Review E</i> , 2003, 67, 066209.	0.8	62
26	Oscillating Fracture Paths in Rubber. <i>Physical Review Letters</i> , 2001, 88, 014304.	2.9	51
27	Contact line deposits in an evaporating drop. <i>Physical Review E</i> , 2000, 62, 756-765.	0.8	1,872
28	Pattern formation in drying drops. <i>Physical Review E</i> , 2000, 61, 475-485.	0.8	1,098
29	Dynamic Shear Modulus of Tricresyl Phosphate and Squalane. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4066-4070.	1.2	64
30	Capillary flow as the cause of ring stains from dried liquid drops. <i>Nature</i> , 1997, 389, 827-829.	13.7	5,383
31	Dielectric susceptibility measurements of the primary and secondary relaxation in polybutadiene. <i>Physical Review B</i> , 1995, 52, 5653-5656.	1.1	59