

Robert D Deegan

List of Publications by Year in descending order

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31
papers

9,644
citations

331670

21
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

9166
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary flow as the cause of ring stains from dried liquid drops. <i>Nature</i> , 1997, 389, 827-829.	27.8	5,383
2	Contact line deposits in an evaporating drop. <i>Physical Review E</i> , 2000, 62, 756-765.	2.1	1,872
3	Pattern formation in drying drops. <i>Physical Review E</i> , 2000, 61, 475-485.	2.1	1,098
4	Vibration-Induced Climbing of Drops. <i>Physical Review Letters</i> , 2007, 99, 144501.	7.8	162
5	Wavelength selection in the crown splash. <i>Physics of Fluids</i> , 2010, 22, .	4.0	118
6	Complexities of splashing. <i>Nonlinearity</i> , 2008, 21, C1-C11.	1.4	113
7	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.	3.4	81
8	Persistent Holes in a Fluid. <i>Physical Review Letters</i> , 2004, 92, 184501.	7.8	78
9	Drop impact into a deep pool: vortex shedding and jet formation. <i>Journal of Fluid Mechanics</i> , 2015, 764, .	3.4	70
10	Dynamic Shear Modulus of Tricresyl Phosphate and Squalane. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4066-4070.	2.6	64
11	Motion of a drop driven by substrate vibrations. <i>European Physical Journal: Special Topics</i> , 2009, 166, 11-14.	2.6	64
12	Wavy and rough cracks in silicon. <i>Physical Review E</i> , 2003, 67, 066209.	2.1	62
13	Dielectric susceptibility measurements of the primary and secondary relaxation in polybutadiene. <i>Physical Review B</i> , 1995, 52, 5653-5656.	3.2	59
14	Cracks in Rubber under Tension Exceed the Shear Wave Speed. <i>Physical Review Letters</i> , 2004, 93, .	7.8	57
15	Oscillating Fracture Paths in Rubber. <i>Physical Review Letters</i> , 2001, 88, 014304.	7.8	51
16	Growth and instability of the liquid rim in the crown splash regime. <i>Journal of Fluid Mechanics</i> , 2014, 752, 485-496.	3.4	51
17	Crumpling, buckling, and cracking: Elasticity of thin sheets. <i>Physics Today</i> , 2007, 60, 33-38.	0.3	42
18	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.	3.4	37

#	ARTICLE	IF	CITATIONS
19	Finessing the fracture energy barrier in ballistic seed dispersal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5166-5169.	7.1	36
20	Ring formation on an inclined surface. Journal of Fluid Mechanics, 2015, 775, .	3.4	33
21	Stress hysteresis as the cause of persistent holes in particulate suspensions. Physical Review E, 2010, 81, 036319.	2.1	32
22	Self-Oscillating Membranes: Chemomechanical Sheets Show Autonomous Periodic Shape Transformation. Physical Review Letters, 2020, 125, 178001.	7.8	18
23	Weakly and strongly coupled Belousov-Zhabotinsky patterns. Physical Review E, 2017, 95, 022215.	2.1	13
24	Strip waves in vibrated shear-thickening wormlike micellar solutions. Physical Review E, 2010, 81, 066310.	2.1	9
25	Droplet Translation Actuated by Photoelectrowetting. Langmuir, 2018, 34, 3177-3185.	3.5	9
26	Localized structures in vibrated emulsions. Europhysics Letters, 2012, 98, 24002.	2.0	7
27	Electrowetting on semiconductors. Applied Physics Letters, 2015, 106, .	3.3	7
28	Semi-implicit methods for the dynamics of elastic sheets. Journal of Computational Physics, 2019, 399, 108952.	3.8	6
29	Quantized orbits in weakly coupled Belousov-Zhabotinsky reactors. Europhysics Letters, 2015, 110, 60004.	2.0	3
30	Climbing a slippery slope. Journal of Fluid Mechanics, 2020, 882, .	3.4	2
31	Inverse design of self-oscillatory gels through deep learning. Neural Computing and Applications, 2022, 34, 6879.	5.6	0