

# Kari Dalnoki-Veress

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

5,639  
citations

35  
h-index

74  
g-index

106  
ext. papers

5,933  
ext. citations

4.7  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
102	Spontaneous Elastocapillary Winding of Thin Elastic Fibers in Contact with Bubbles. <i>Physical Review Letters</i> , <b>2021</b> , 127, 218001	7.4	
101	Mechanical properties of 2D aggregates of oil droplets as model mono-crystals. <i>Soft Matter</i> , <b>2021</b> , 17, 1194-1201	3.6	0
100	Capillary levelling of immiscible bilayer films. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 911,	3.7	1
99	Film coating by directional droplet spreading on fibers. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	1
98	Writhing and hocking instabilities in twisted elastic fibers.. <i>European Physical Journal E</i> , <b>2021</b> , 44, 149	1.5	
97	Symmetrization of Thin Freestanding Liquid Films via a Capillary-Driven Flow. <i>Physical Review Letters</i> , <b>2020</b> , 124, 184502	7.4	5
96	Rearrangement of two dimensional aggregates of droplets under compression: Signatures of the energy landscape from crystal to glass. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	6
95	Self-organisation and convection of confined magnetotactic bacteria. <i>Scientific Reports</i> , <b>2020</b> , 10, 13578	4.9	2
94	Continuum Model Applied to Granular Analogs of Droplets and Puddles. <i>Physical Review Letters</i> , <b>2020</b> , 125, 228001	7.4	
93	Surface energy of strained amorphous solids. <i>Nature Communications</i> , <b>2018</b> , 9, 982	17.4	39
92	Liquid dewetting under a thin elastic film. <i>Soft Matter</i> , <b>2018</b> , 14, 3557-3562	3.6	5
91	Adsorption-induced slip inhibition for polymer melts on ideal substrates. <i>Nature Communications</i> , <b>2018</b> , 9, 1172	17.4	8
90	Droplets Capped with an Elastic Film Can Be Round, Elliptical, or Nearly Square. <i>Physical Review Letters</i> , <b>2018</b> , 121, 248004	7.4	5
89	Glass transition at interfaces. <i>Europhysics News</i> , <b>2017</b> , 48, 24-28	0.2	6
88	Elastocapillary bending of microfibers around liquid droplets. <i>Soft Matter</i> , <b>2017</b> , 13, 720-724	3.6	18
87	Liquid droplets on a free-standing glassy membrane: Deformation through the glass transition. <i>European Physical Journal E</i> , <b>2017</b> , 40, 69	1.5	6
86	Liquid Droplets Act as "Compass Needles" for the Stresses in a Deformable Membrane. <i>Physical Review Letters</i> , <b>2017</b> , 118, 198002	7.4	9

85	Predicting the size of droplets produced through Laplace pressure induced snap-off. <i>Soft Matter</i> , <b>2016</b> , 12, 7398-404	3.6	16
84	Self-Amplification of Solid Friction in Interleaved Assemblies. <i>Physical Review Letters</i> , <b>2016</b> , 116, 015502	7.4	20
83	Why can't you separate interleaved books?. <i>Physics Today</i> , <b>2016</b> , 69, 74-75	0.9	4
82	Direct Measurement of the Critical Pore Size in a Model Membrane. <i>Physical Review Letters</i> , <b>2016</b> , 117, 257801	7.4	12
81	Capillary Leveling of Freestanding Liquid Nanofilms. <i>Physical Review Letters</i> , <b>2016</b> , 117, 167801	7.4	8
80	Controlling Marangoni-induced instabilities in spin-cast polymer films: How to prepare uniform films. <i>European Physical Journal E</i> , <b>2016</b> , 39, 90	1.5	27
79	Cooperative strings and glassy interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8227-31	11.5	58
78	Onset of Area-Dependent Dissipation in Droplet Spreading. <i>Physical Review Letters</i> , <b>2015</b> , 115, 046103	7.4	4
77	Liquid Droplets on a Highly Deformable Membrane. <i>Physical Review Letters</i> , <b>2015</b> , 115, 206101	7.4	45
76	The effects of viscosity on the undulatory swimming dynamics of <i>C. elegans</i> . <i>Physics of Fluids</i> , <b>2015</b> , 27, 091901	4.4	17
75	Symmetry plays a key role in the erasing of patterned surface features. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 053103	3.4	7
74	Influence of slip on the Plateau-Rayleigh instability on a fibre. <i>Nature Communications</i> , <b>2015</b> , 6, 7409	17.4	54
73	The nematode <i>C. elegans</i> as a complex viscoelastic fluid. <i>European Physical Journal E</i> , <b>2015</b> , 38, 118	1.5	4
72	Snap-off production of monodisperse droplets. <i>European Physical Journal E</i> , <b>2015</b> , 38, 138	1.5	5
71	A direct quantitative measure of surface mobility in a glassy polymer. <i>Science</i> , <b>2014</b> , 343, 994-9	33.3	169
70	When Does a Glass Transition Temperature Not Signify a Glass Transition?. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 310-314	6.6	57
69	Direct measurements of drag forces in <i>C. elegans</i> crawling locomotion. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1980-1987	2.9	26
68	Approach to universal self-similar attractor for the levelling of thin liquid films. <i>Soft Matter</i> , <b>2014</b> , 10, 8608-14	3.6	11

67	Tangling of tethered swimmers: interactions between two nematodes. <i>Physical Review Letters</i> , <b>2014</b> , 113, 138101	7.4	6
66	Capillary levelling of a cylindrical hole in a viscous film. <i>Soft Matter</i> , <b>2014</b> , 10, 2550-8	3.6	25
65	Dynamic force patterns of an undulatory microswimmer. <i>Physical Review E</i> , <b>2014</b> , 89, 050701	2.4	10
64	Quantized contact angles in the dewetting of a structured liquid. <i>Physical Review Letters</i> , <b>2014</b> , 112, 068303	7.4	5
63	Undulatory microswimming near solid boundaries. <i>Physics of Fluids</i> , <b>2014</b> , 26, 101902	4.4	13
62	Strain rate effects on symmetric diblock copolymer liquid bridges: order-induced stability of polymer fibres. <i>European Physical Journal E</i> , <b>2014</b> , 37, 100	1.5	1
61	Morphology Induced Spinodal Decomposition at the Surface of Symmetric Diblock Copolymer Films.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 441-445	6.6	9
60	Relaxation and intermediate asymptotics of a rectangular trench in a viscous film. <i>Physical Review E</i> , <b>2013</b> , 88, 035001	2.4	11
59	Capillary leveling of stepped films with inhomogeneous molecular mobility. <i>Soft Matter</i> , <b>2013</b> , 9, 8297	3.6	9
58	Systematic study of alginate-based microcapsules by micropipette aspiration and confocal fluorescence microscopy. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4295-304	8.3	26
57	Viscoelastic properties of the nematode <i>Caenorhabditis elegans</i> , a self-similar, shear-thinning worm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4528-33	11.5	46
56	Reduced glass transition temperatures in thin polymer films: surface effect or artifact?. <i>Physical Review Letters</i> , <b>2012</b> , 109, 055701	7.4	139
55	Beyond Tanner's law: crossover between spreading regimes of a viscous droplet on an identical film. <i>Physical Review Letters</i> , <b>2012</b> , 109, 154501	7.4	27
54	Step Edges in Thin Films of Lamellar-Forming Diblock Copolymer. <i>Macromolecules</i> , <b>2012</b> , 45, 9531-9538	5.5	17
53	Crystal Growth Rate in a Blend of Long and Short Polymer Chains. <i>Macromolecules</i> , <b>2012</b> , 45, 1688-1691	5.5	14
52	Numerical solutions of thin-film equations for polymer flows. <i>European Physical Journal E</i> , <b>2012</b> , 35, 114	1.5	29
51	Self-similarity and energy dissipation in stepped polymer films. <i>Physical Review Letters</i> , <b>2012</b> , 109, 128303	7.4	43
50	Capillary-driven flow induced by a stepped perturbation atop a viscous film. <i>Physics of Fluids</i> , <b>2012</b> , 24, 102111	4.4	28

49	Understanding and predicting viscous, elastic, plastic flows. <i>European Physical Journal E</i> , <b>2011</b> , 34, 1	1.5	127
48	Surface nucleation in the crystallisation of polyethylene droplets. <i>European Physical Journal E</i> , <b>2011</b> , 34, 6	1.5	21
47	Reversible sphere-to-lamellar wetting transition at the interface of a diblock copolymer system. <i>European Physical Journal E</i> , <b>2011</b> , 34, 51	1.5	2
46	Dynamics of interacting edge defects in copolymer lamellae. <i>European Physical Journal E</i> , <b>2011</b> , 34, 1-7	1.5	6
45	Ellipsometry as a probe of crystallization in binary blends of a sphere-forming diblock copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 712-716	2.6	3
44	Capillary levelling as a probe of thin film polymer rheology. <i>Soft Matter</i> , <b>2011</b> , 7, 7832	3.6	27
43	Nanoparticle flotation collectors: mechanisms behind a new technology. <i>Langmuir</i> , <b>2011</b> , 27, 10438-46	4	49
42	Homogeneous bulk, surface, and edge nucleation in crystalline nanodroplets. <i>Physical Review Letters</i> , <b>2010</b> , 105, 237801	7.4	65
41	Squeezing and detachment of living cells. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3555-62	2.9	17
40	Swelling molecular entanglement networks in polymer glasses. <i>Physical Review E</i> , <b>2010</b> , 82, 021802	2.4	8
39	Plateau-Rayleigh instability in a torus: formation and breakup of a polymer ring. <i>Soft Matter</i> , <b>2010</b> , 6, 1258	3.6	48
38	Hole nucleation in free-standing polymer membranes: the effects of varying molecular architecture. <i>Soft Matter</i> , <b>2010</b> , 6, 5547	3.6	13
37	Ordering of a lamella-forming fluid near an interface. <i>Physical Review E</i> , <b>2009</b> , 80, 051803	2.4	11
36	Spreading of diblock copolymer droplets: a probe of polymer micro-rheology. <i>European Physical Journal E</i> , <b>2009</b> , 29, 239-44	1.5	9
35	Adhesion and membrane tension of single vesicles and living cells using a micropipette-based technique. <i>European Physical Journal E</i> , <b>2009</b> , 30, 117-21	1.5	37
34	Effect of atmosphere on reductions in the glass transition of thin polystyrene films. <i>European Physical Journal E</i> , <b>2008</b> , 27, 375-7	1.5	47
33	Kinetics of layer hopping in a diblock copolymer lamellar phase. <i>European Physical Journal E</i> , <b>2008</b> , 27, 407-11	1.5	13
32	Reply to comment on "The properties of free polymer surfaces and their effect upon the glass transition temperature of thin polystyrene films" by S.A. Hutcheson and G.B. McKenna. <i>European Physical Journal E</i> , <b>2007</b> , 22, 287-291	1.5	11

31	Confinement effects in polymer crystal nucleation from the bulk to few-chain systems. <i>Physical Review Letters</i> , <b>2006</b> , 97, 247802	7.4	63
30	Droplet shape of an anisotropic liquid. <i>Physical Review Letters</i> , <b>2006</b> , 97, 204502	7.4	35
29	Ellipsometry as a probe of crystallization kinetics in thin diblock copolymer films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 3448-3452	2.6	16
28	Spinodal wrinkling in thin-film poly(ethylene oxide)/polystyrene bilayers. <i>European Physical Journal E</i> , <b>2006</b> , 19, 423-32	1.5	16
27	Measurement of adhesion energies and Young's modulus in thin polymer films using a novel axi-symmetric peel test geometry. <i>European Physical Journal E</i> , <b>2006</b> , 19, 453-9	1.5	20
26	Inelastic neutron scattering for investigating the dynamics of confined glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 2657-2667	3.9	50
25	Crystal nucleation of polymers confined to droplets: Memory effects. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 3438-3443	2.6	52
24	Chain entanglement in thin freestanding polymer films. <i>Physical Review Letters</i> , <b>2005</b> , 94, 127801	7.4	191
23	Homogeneous crystallization of poly(ethylene oxide) confined to droplets: the dependence of the crystal nucleation rate on length scale and temperature. <i>Physical Review Letters</i> , <b>2004</b> , 92, 255509	7.4	166
22	PEO Penetration into Water-Plasticized Poly(vinylphenol) Thin Films. <i>Macromolecules</i> , <b>2004</b> , 37, 494-500	5.5	4
21	Crystallization kinetics and crystal morphology in thin poly(ethylene oxide) films. <i>European Physical Journal E</i> , <b>2003</b> , 11, 191-8	1.5	66
20	Direct visualisation of homogeneous and heterogeneous crystallisation in an ensemble of confined domains of poly(ethylene oxide). <i>European Physical Journal E</i> , <b>2003</b> , 12, 111-7	1.5	81
19	Ion crater healing and variable temperature ellipsometry as complementary probes for the glass transition in thin polymer films. <i>European Physical Journal E</i> , <b>2003</b> , 12 Suppl 1, S81-5	1.5	6
18	First inelastic neutron scattering studies on thin free standing polymer films. <i>European Physical Journal E</i> , <b>2003</b> , 12 Suppl 1, S93-6	1.5	17
17	Differential pressure experiment to probe hole growth in freely standing polymer films. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 2796-2804	1.7	13
16	Crystal growth rate in ultrathin films of poly(ethylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 2615-2621	2.6	51
15	Sub-glass-transition temperature interface formation between an immiscible glass rubber pair. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 2664-2670	2.6	17
14	Changes in the Morphology of Self-Assembled Polystyrene Microsphere Monolayers Produced by Annealing. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 243, 143-155	9.3	17

13	The glass transition in thin polymer films. <i>Advances in Colloid and Interface Science</i> , <b>2001</b> , 94, 167-195	14.3	691
12	Molecular weight dependence of reductions in the glass transition temperature of thin, freely standing polymer films. <i>Physical Review E</i> , <b>2001</b> , 63, 031801	2.4	313
11	Instabilities in thin polymer films: from pattern formation to rupture. <i>Macromolecular Symposia</i> , <b>2000</b> , 159, 143-150	0.8	13
10	Dispersion-Driven Morphology of Mechanically Confined Polymer Films. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1486-1489	7.4	50
9	Hole formation and growth in freely standing polystyrene films. <i>Physical Review E</i> , <b>1999</b> , 59, 2153-2156	2.4	67
8	Mechanical confinement effects on the phase separation morphology of polymer blend thin films. <i>Physical Review E</i> , <b>1998</b> , 57, 5811-5817	2.4	37
7	Brillouin light scattering studies of the mechanical properties of thin freely standing polystyrene films. <i>Physical Review E</i> , <b>1998</b> , 58, 6109-6114	2.4	110
6	Interface and chain confinement effects on the glass transition temperature of thin polymer films. <i>Physical Review E</i> , <b>1997</b> , 56, 5705-5716	2.4	703
5	Phase separation morphology of spin-coated polymer blend thin films. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1997</b> , 239, 87-94	3.3	78
4	Effect of Free Surfaces on the Glass Transition Temperature of Thin Polymer Films. <i>Physical Review Letters</i> , <b>1996</b> , 77, 2002-2005	7.4	962
3	Brillouin light scattering studies of the mechanical properties of polystyrene/polyisoprene multilayered thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 3009-3016	2.6	28
2	Phase separation morphology of thin films of polystyrene/polyisoprene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 3017-3024	2.6	41
1	Effect of Free Surfaces on the Glass Transition Temperature of Thin Polymer Films. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4108-4108	7.4	38