

Kari Dalnoki-Veress

List of Publications by Year in descending order

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105
papers

6,275
citations

125106

35
h-index

75989

78
g-index

106
all docs

106
docs citations

106
times ranked

5476
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Free Surfaces on the Glass Transition Temperature of Thin Polymer Films. <i>Physical Review Letters</i> , 1996, 77, 2002-2005.	2.9	1,028
2	The glass transition in thin polymer films. <i>Advances in Colloid and Interface Science</i> , 2001, 94, 167-195.	7.0	741
3	Interface and chain confinement effects on the glass transition temperature of thin polymer films. <i>Physical Review E</i> , 1997, 56, 5705-5716.	0.8	739
4	Molecular weight dependence of reductions in the glass transition temperature of thin, freely standing polymer films. <i>Physical Review E</i> , 2001, 63, 031801.	0.8	338
5	Chain Entanglement in Thin Freestanding Polymer Films. <i>Physical Review Letters</i> , 2005, 94, 127801.	2.9	213
6	A Direct Quantitative Measure of Surface Mobility in a Glassy Polymer. <i>Science</i> , 2014, 343, 994-999.	6.0	192
7	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> , 2004, 92, 255509.	2.9	178
8	Understanding and predicting viscous, elastic, plastic flows. <i>European Physical Journal E</i> , 2011, 34, 1.	0.7	152
9	Reduced Glass Transition Temperatures in Thin Polymer Films: Surface Effect or Artifact?. <i>Physical Review Letters</i> , 2012, 109, 055701.	2.9	151
10	Brillouin light scattering studies of the mechanical properties of thin freely standing polystyrene films. <i>Physical Review E</i> , 1998, 58, 6109-6114.	0.8	116
11	Phase separation morphology of spin-coated polymer blend thin films. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 239, 87-94.	1.2	87
12	Direct visualisation of homogeneous and heterogeneous crystallisation in an ensemble of confined domains of poly(ethylene oxide). <i>European Physical Journal E</i> , 2003, 12, 111-117.	0.7	82
13	Influence of slip on the Plateauâ€“Rayleigh instability on a fibre. <i>Nature Communications</i> , 2015, 6, 7409.	5.8	76
14	Crystallization kinetics and crystal morphology in thin poly(ethylene oxide) films. <i>European Physical Journal E</i> , 2003, 11, 191-198.	0.7	74
15	Hole formation and growth in freely standing polystyrene films. <i>Physical Review E</i> , 1999, 59, 2153-2156.	0.8	73
16	Homogeneous Bulk, Surface, and Edge Nucleation in Crystalline Nanodroplets. <i>Physical Review Letters</i> , 2010, 105, 237801.	2.9	72
17	Cooperative strings and glassy interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8227-8231.	3.3	70
18	Confinement Effects in Polymer Crystal Nucleation from the Bulk to Few-Chain Systems. <i>Physical Review Letters</i> , 2006, 97, 247802.	2.9	69

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19	When Does a Glass Transition Temperature Not Signify a Glass Transition?. ACS Macro Letters, 2014, 3, 310-314.	2.3	69
20	Viscoelastic properties of the nematode <i>Caenorhabditis elegans</i> , a self-similar, shear-thinning worm. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4528-4533.	3.3	66
21	Nanoparticle Flotation Collectors: Mechanisms Behind a New Technology. Langmuir, 2011, 27, 10438-10446.	1.6	62
22	Crystal growth rate in ultrathin films of poly(ethylene oxide). Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2615-2621.	2.4	57
23	Liquid Droplets on a Highly Deformable Membrane. Physical Review Letters, 2015, 115, 206101.	2.9	57
24	Crystal nucleation of polymers confined to droplets: Memory effects. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3438-3443.	2.4	56
25	Plateau-Rayleigh instability in a torus: formation and breakup of a polymer ring. Soft Matter, 2010, 6, 1258.	1.2	56
26	Dispersion-Driven Morphology of Mechanically Confined Polymer Films. Physical Review Letters, 1999, 82, 1486-1489.	2.9	54
27	Surface energy of strained amorphous solids. Nature Communications, 2018, 9, 982.	5.8	53
28	Inelastic neutron scattering for investigating the dynamics of confined glass-forming liquids. Journal of Non-Crystalline Solids, 2005, 351, 2657-2667.	1.5	51
29	Effect of atmosphere on reductions in the glass transition of thin polystyrene films. European Physical Journal E, 2008, 27, 375-377.	0.7	49
30	Self-Similarity and Energy Dissipation in Stepped Polymer Films. Physical Review Letters, 2012, 109, 128303.	2.9	47
31	Phase separation morphology of thin films of polystyrene/polyisoprene blends. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 3017-3024.	2.4	45
32	Effect of Free Surfaces on the Glass Transition Temperature of Thin Polymer Films. Physical Review Letters, 1996, 77, 4108-4108.	2.9	41
33	Mechanical confinement effects on the phase separation morphology of polymer blend thin films. Physical Review E, 1998, 57, 5811-5817.	0.8	39
34	Adhesion and membrane tension of single vesicles and living cells using a micropipette-based technique. European Physical Journal E, 2009, 30, 117-21.	0.7	38
35	Droplet Shape of an Anisotropic Liquid. Physical Review Letters, 2006, 97, 204502.	2.9	36
36	Beyond Tanner's Law: Crossover between Spreading Regimes of a Viscous Droplet on an Identical Film. Physical Review Letters, 2012, 109, 154501.	2.9	34

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37	Systematic study of alginate-based microcapsules by micropipette aspiration and confocal fluorescence microscopy. <i>Materials Science and Engineering C</i> , 2013, 33, 4295-4304.	3.8	34
38	Controlling Marangoni-induced instabilities in spin-cast polymer films: How to prepare uniform films. <i>European Physical Journal E</i> , 2016, 39, 90.	0.7	34
39	Brillouin light scattering studies of the mechanical properties of polystyrene/polyisoprene multilayered thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 3009-3016.	2.4	31
40	Direct Measurements of Drag Forces in <i>C.Âelegans</i> Crawling Locomotion. <i>Biophysical Journal</i> , 2014, 107, 1980-1987.	0.2	31
41	Capillary levelling of a cylindrical hole in a viscous film. <i>Soft Matter</i> , 2014, 10, 2550.	1.2	31
42	Capillary-driven flow induced by a stepped perturbation atop a viscous film. <i>Physics of Fluids</i> , 2012, 24, .	1.6	30
43	Numerical solutions of thin-film equations for polymer flows. <i>European Physical Journal E</i> , 2012, 35, 114.	0.7	30
44	Capillary levelling as a probe of thin film polymer rheology. <i>Soft Matter</i> , 2011, 7, 7832.	1.2	28
45	Surface nucleation in the crystallisation of polyethylene droplets. <i>European Physical Journal E</i> , 2011, 34, 6.	0.7	27
46	Self-Amplification of Solid Friction in Interleaved Assemblies. <i>Physical Review Letters</i> , 2016, 116, 015502.	2.9	25
47	The effects of viscosity on the undulatory swimming dynamics of <i>C. elegans</i> . <i>Physics of Fluids</i> , 2015, 27, .	1.6	22
48	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> , 2006, 19, 453-459.	0.7	21
49	Step Edges in Thin Films of Lamellar-Forming Diblock Copolymer. <i>Macromolecules</i> , 2012, 45, 9531-9538.	2.2	21
50	Predicting the size of droplets produced through Laplace pressure induced snap-off. <i>Soft Matter</i> , 2016, 12, 7398-7404.	1.2	21
51	Sub-glass-transition temperature interface formation between an immiscible glass rubber pair. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2664-2670.	2.4	20
52	Changes in the Morphology of Self-Assembled Polystyrene Microsphere Monolayers Produced by Annealing. <i>Journal of Colloid and Interface Science</i> , 2001, 243, 143-155.	5.0	20
53	Ellipsometry as a probe of crystallization kinetics in thin diblock copolymer films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3448-3452.	2.4	20
54	Elastocapillary bending of microfibers around liquid droplets. <i>Soft Matter</i> , 2017, 13, 720-724.	1.2	20

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55	Spinodal wrinkling in thin-film poly(ethylene oxide)/polystyrene bilayers. <i>European Physical Journal E</i> , 2006, 19, 423-432.	0.7	18
56	Squeezing and Detachment of Living Cells. <i>Biophysical Journal</i> , 2010, 99, 3555-3562.	0.2	18
57	First inelastic neutron scattering studies on thin free standing polymer films. <i>European Physical Journal E</i> , 2003, 12, 93-96.	0.7	17
58	Crystal Growth Rate in a Blend of Long and Short Polymer Chains. <i>Macromolecules</i> , 2012, 45, 1688-1691.	2.2	17
59	Approach to universal self-similar attractor for the levelling of thin liquid films. <i>Soft Matter</i> , 2014, 10, 8608-8614.	1.2	17
60	Liquid Droplets Act as "Compass Needles" for the Stresses in a Deformable Membrane. <i>Physical Review Letters</i> , 2017, 118, 198002.	2.9	17
61	Instabilities in thin polymer films: from pattern formation to rupture. <i>Macromolecular Symposia</i> , 2000, 159, 143-150.	0.4	16
62	Hole nucleation in free-standing polymer membranes: the effects of varying molecular architecture. <i>Soft Matter</i> , 2010, 6, 5547.	1.2	15
63	Undulatory microswimming near solid boundaries. <i>Physics of Fluids</i> , 2014, 26, .	1.6	15
64	Differential pressure experiment to probe hole growth in freely standing polymer films. <i>Review of Scientific Instruments</i> , 2003, 74, 2796-2804.	0.6	14
65	Relaxation and intermediate asymptotics of a rectangular trench in a viscous film. <i>Physical Review E</i> , 2013, 88, 035001.	0.8	14
66	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> , 2007, 22, 287-291.	0.7	13
67	Kinetics of layer hopping in a diblock copolymer lamellar phase. <i>European Physical Journal E</i> , 2008, 27, 407-411.	0.7	13
68	Ordering of a lamella-forming fluid near an interface. <i>Physical Review E</i> , 2009, 80, 051803.	0.8	12
69	Dynamic force patterns of an undulatory microswimmer. <i>Physical Review E</i> , 2014, 89, 050701.	0.8	12
70	Direct Measurement of the Critical Pore Size in a Model Membrane. <i>Physical Review Letters</i> , 2016, 117, 257801.	2.9	12
71	Morphology Induced Spinodal Decomposition at the Surface of Symmetric Diblock Copolymer Films. <i>ACS Macro Letters</i> , 2013, 2, 441-445.	2.3	11
72	Capillary leveling of stepped films with inhomogeneous molecular mobility. <i>Soft Matter</i> , 2013, 9, 8297.	1.2	11

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73	Liquid droplets on a free-standing glassy membrane: Deformation through the glass transition. <i>European Physical Journal E</i> , 2017, 40, 69.	0.7	11
74	Adsorption-induced slip inhibition for polymer melts on ideal substrates. <i>Nature Communications</i> , 2018, 9, 1172.	5.8	11
75	Multiple droplets on a conical fiber: formation, motion, and droplet mergers. <i>Soft Matter</i> , 2022, 18, 1364-1370.	1.2	10
76	Spreading of diblock copolymer droplets: A probe of polymer micro-rheology. <i>European Physical Journal E</i> , 2009, 29, 239-244.	0.7	9
77	Droplets Capped with an Elastic Film Can Be Round, Elliptical, or Nearly Square. <i>Physical Review Letters</i> , 2018, 121, 248004.	2.9	9
78	Self-organisation and convection of confined magnetotactic bacteria. <i>Scientific Reports</i> , 2020, 10, 13578.	1.6	9
79	Swelling molecular entanglement networks in polymer glasses. <i>Physical Review E</i> , 2010, 82, 021802.	0.8	8
80	Symmetry plays a key role in the erasing of patterned surface features. <i>Applied Physics Letters</i> , 2015, 107, 053103.	1.5	8
81	Snap-off production of monodisperse droplets. <i>European Physical Journal E</i> , 2015, 38, 138.	0.7	8
82	Capillary Leveling of Freestanding Liquid Nanofilms. <i>Physical Review Letters</i> , 2016, 117, 167801.	2.9	8
83	Rearrangement of two dimensional aggregates of droplets under compression: Signatures of the energy landscape from crystal to glass. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
84	Dynamics of interacting edge defects in copolymer lamellae. <i>European Physical Journal E</i> , 2011, 34, 1-7.	0.7	7
85	Tangling of Tethered Swimmers: Interactions between Two Nematodes. <i>Physical Review Letters</i> , 2014, 113, 138101.	2.9	7
86	Ion crater healing and variable temperature ellipsometry as complementary probes for the glass transition in thin polymer films. <i>European Physical Journal E</i> , 2003, 12, 81-85.	0.7	6
87	Glass transition at interfaces. <i>Europhysics News</i> , 2017, 48, 24-28.	0.1	6
88	Symmetrization of Thin Freestanding Liquid Films via a Capillary-Driven Flow. <i>Physical Review Letters</i> , 2020, 124, 184502.	2.9	6
89	Film coating by directional droplet spreading on fibers. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	6
90	Quantized Contact Angles in the Dewetting of a Structured Liquid. <i>Physical Review Letters</i> , 2014, 112, 068303.	2.9	5

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91	The nematode <i>C. elegans</i> as a complex viscoelastic fluid. <i>European Physical Journal E</i> , 2015, 38, 118.	0.7	5
92	Liquid dewetting under a thin elastic film. <i>Soft Matter</i> , 2018, 14, 3557-3562.	1.2	5
93	PEO Penetration into Water-Plasticized Poly(vinylphenol) Thin Films. <i>Macromolecules</i> , 2004, 37, 494-500.	2.2	4
94	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> , 2011, 49, 712-716.	2.4	4
95	Onset of Area-Dependent Dissipation in Droplet Spreading. <i>Physical Review Letters</i> , 2015, 115, 046103.	2.9	4
96	Why can't you separate interleaved books?. <i>Physics Today</i> , 2016, 69, 74-75.	0.3	4
97	Mechanical properties of 2D aggregates of oil droplets as model mono-crystals. <i>Soft Matter</i> , 2021, 17, 1194-1201.	1.2	4
98	Capillary levelling of immiscible bilayer films. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	3
99	Reversible sphere-to-lamellar wetting transition at the interface of a diblock copolymer system. <i>European Physical Journal E</i> , 2011, 34, 51.	0.7	2
100	Writhing and hocking instabilities in twisted elastic fibers. <i>European Physical Journal E</i> , 2021, 44, 149.	0.7	2
101	Strain rate effects on symmetric diblock copolymer liquid bridges: Order-induced stability of polymer fibres. <i>European Physical Journal E</i> , 2014, 37, 100.	0.7	1
102	Continuum Model Applied to Granular Analogs of Droplets and Puddles. <i>Physical Review Letters</i> , 2020, 125, 228001.	2.9	1
103	Stretching a Solid Modifies its Wettability – Or Does it?. <i>ChemistryViews</i> , 0, , .	0.0	1
104	Spontaneous Elastocapillary Winding of Thin Elastic Fibers in Contact with Bubbles. <i>Physical Review Letters</i> , 2021, 127, 218001.	2.9	1
105	New section for The European Physical Journal E: –Tips and Tricks in Soft Matter and Biological Physics–. <i>European Physical Journal E</i> , 2015, 38, 1.	0.7	0