

# Kari Dalnoki-Veress

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2818973/kari-dalnoki-veress-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
101	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
100	The glass transition in thin polymer films. <i>Advances in Colloid and Interface Science</i> , <b>2001</b> , 94, 167-195	14.3	691
99	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
98	Chain entanglement in thin freestanding polymer films. <i>Physical Review Letters</i> , <b>2005</b> , 94, 127801	7.4	191
97	A direct quantitative measure of surface mobility in a glassy polymer. <i>Science</i> , <b>2014</b> , 343, 994-9	33.3	169
96	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
95	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
94	Understanding and predicting viscous, elastic, plastic flows. <i>European Physical Journal E</i> , <b>2011</b> , 34, 1	1.5	127
93	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
92	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
91	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
90	Hole formation and growth in freely standing polystyrene films. <i>Physical Review E</i> , <b>1999</b> , 59, 2153-2156	2.4	67
89	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
88	Homogeneous bulk, surface, and edge nucleation in crystalline nanodroplets. <i>Physical Review Letters</i> , <b>2010</b> , 105, 237801	7.4	65
87	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
86	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

85	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
84	Influence of slip on the Plateau-Rayleigh instability on a fibre. <i>Nature Communications</i> , <b>2015</b> , 6, 7409	17.4	54
83	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
82	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
81	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
80	Dispersion-Driven Morphology of Mechanically Confined Polymer Films. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1486-1489	7.4	50
79	Nanoparticle flotation collectors: mechanisms behind a new technology. <i>Langmuir</i> , <b>2011</b> , 27, 10438-46	4	49
78	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
77	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
76	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
75	Liquid Droplets on a Highly Deformable Membrane. <i>Physical Review Letters</i> , <b>2015</b> , 115, 206101	7.4	45
74	Self-similarity and energy dissipation in stepped polymer films. <i>Physical Review Letters</i> , <b>2012</b> , 109, 128303	7.4	43
73	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
72	Surface energy of strained amorphous solids. <i>Nature Communications</i> , <b>2018</b> , 9, 982	17.4	39
71	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
70	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
69	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
68	Droplet shape of an anisotropic liquid. <i>Physical Review Letters</i> , <b>2006</b> , 97, 204502	7.4	35

67	Numerical solutions of thin-film equations for polymer flows. <i>European Physical Journal E</i> , <b>2012</b> , 35, 114	1.5	29
66	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
65	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
64	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
63	Capillary levelling as a probe of thin film polymer rheology. <i>Soft Matter</i> , <b>2011</b> , 7, 7832	3.6	27
62	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
61	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
60	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
59	Capillary levelling of a cylindrical hole in a viscous film. <i>Soft Matter</i> , <b>2014</b> , 10, 2550-8	3.6	25
58	Surface nucleation in the crystallisation of polyethylene droplets. <i>European Physical Journal E</i> , <b>2011</b> , 34, 6	1.5	21
57	Self-Amplification of Solid Friction in Interleaved Assemblies. <i>Physical Review Letters</i> , <b>2016</b> , 116, 015502	7.4	20
56	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
55	Elastocapillary bending of microfibers around liquid droplets. <i>Soft Matter</i> , <b>2017</b> , 13, 720-724	3.6	18
54	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
53	Step Edges in Thin Films of Lamellar-Forming Diblock Copolymer. <i>Macromolecules</i> , <b>2012</b> , 45, 9531-9538	5.5	17
52	Squeezing and detachment of living cells. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3555-62	2.9	17
51	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
50	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

49	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
48	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
47	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
46	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
45	Crystal Growth Rate in a Blend of Long and Short Polymer Chains. <i>Macromolecules</i> , <b>2012</b> , 45, 1688-1691	5.5	14
44	Undulatory microswimming near solid boundaries. <i>Physics of Fluids</i> , <b>2014</b> , 26, 101902	4.4	13
43	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
42	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
41	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
40	Instabilities in thin polymer films: from pattern formation to rupture. <i>Macromolecular Symposia</i> , <b>2000</b> , 159, 143-150	0.8	13
39	Direct Measurement of the Critical Pore Size in a Model Membrane. <i>Physical Review Letters</i> , <b>2016</b> , 117, 257801	7.4	12
38	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
37	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
36	Ordering of a lamella-forming fluid near an interface. <i>Physical Review E</i> , <b>2009</b> , 80, 051803	2.4	11
35	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
34	Dynamic force patterns of an undulatory microswimmer. <i>Physical Review E</i> , <b>2014</b> , 89, 050701	2.4	10
33	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
32	Capillary leveling of stepped films with inhomogeneous molecular mobility. <i>Soft Matter</i> , <b>2013</b> , 9, 8297	3.6	9

31	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
30	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
29	Adsorption-induced slip inhibition for polymer melts on ideal substrates. <i>Nature Communications</i> , <b>2018</b> , 9, 1172	17.4	8
28	Swelling molecular entanglement networks in polymer glasses. <i>Physical Review E</i> , <b>2010</b> , 82, 021802	2.4	8
27	Capillary Leveling of Freestanding Liquid Nanofilms. <i>Physical Review Letters</i> , <b>2016</b> , 117, 167801	7.4	8
26	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
25	Glass transition at interfaces. <i>Europhysics News</i> , <b>2017</b> , 48, 24-28	0.2	6
24	Tangling of tethered swimmers: interactions between two nematodes. <i>Physical Review Letters</i> , <b>2014</b> , 113, 138101	7.4	6
23	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
22	Dynamics of interacting edge defects in copolymer lamellae. <i>European Physical Journal E</i> , <b>2011</b> , 34, 1-7	1.5	6
21	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
20	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
19	Symmetrization of Thin Freestanding Liquid Films via a Capillary-Driven Flow. <i>Physical Review Letters</i> , <b>2020</b> , 124, 184502	7.4	5
18	Liquid dewetting under a thin elastic film. <i>Soft Matter</i> , <b>2018</b> , 14, 3557-3562	3.6	5
17	Snap-off production of monodisperse droplets. <i>European Physical Journal E</i> , <b>2015</b> , 38, 138	1.5	5
16	Quantized contact angles in the dewetting of a structured liquid. <i>Physical Review Letters</i> , <b>2014</b> , 112, 068303	7.4	5
15	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
14	Onset of Area-Dependent Dissipation in Droplet Spreading. <i>Physical Review Letters</i> , <b>2015</b> , 115, 046103	7.4	4

13	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
12	PEO Penetration into Water-Plasticized Poly(vinylphenol) Thin Films. <i>Macromolecules</i> , <b>2004</b> , 37, 494-500	5.5	4
11	Why can't you separate interleaved books?. <i>Physics Today</i> , <b>2016</b> , 69, 74-75	0.9	4
10	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
9	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
8	Self-organisation and convection of confined magnetotactic bacteria. <i>Scientific Reports</i> , <b>2020</b> , 10, 13578	4.9	2
7	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
6	Capillary levelling of immiscible bilayer films. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 911,	3.7	1
5	Film coating by directional droplet spreading on fibers. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	1
4	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
3	Spontaneous Elastocapillary Winding of Thin Elastic Fibers in Contact with Bubbles. <i>Physical Review Letters</i> , <b>2021</b> , 127, 218001	7.4	
2	Continuum Model Applied to Granular Analogs of Droplets and Puddles. <i>Physical Review Letters</i> , <b>2020</b> , 125, 228001	7.4	
1	Writhing and hocking instabilities in twisted elastic fibers.. <i>European Physical Journal E</i> , <b>2021</b> , 44, 149	1.5	