

Arkadii Arinstein

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,317
citations

430874

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377865

34
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42
all docs

42
docs citations

42
times ranked

1498
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of supramolecular structure on polymer nanofibre elasticity. <i>Nature Nanotechnology</i> , 2007, 2, 59-62.	31.5	339
2	Quantum S-matrix of the (1 + 1)-dimensional Todd chain. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979, 87, 389-392.	4.1	198
3	Electrospun polymer nanofibers: Mechanical and thermodynamic perspectives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 691-707.	2.1	134
4	Polymer extension flows and instabilities. <i>Progress in Polymer Science</i> , 2014, 39, 959-978.	24.7	67
5	Polymer dynamics in semidilute solution during electrospinning: A simple model and experimental observations. <i>Physical Review E</i> , 2011, 84, 041806.	2.1	60
6	Equilibrium and irreversible unzipping of DNA in a nanopore. <i>Europhysics Letters</i> , 2006, 73, 128-134.	2.0	49
7	Cryo-Imaging of Hydrogels Supermolecular Structure. <i>Scientific Reports</i> , 2016, 6, 25495.	3.3	49
8	Postprocesses in tubular electrospun nanofibers. <i>Physical Review E</i> , 2007, 76, 056303.	2.1	41
9	Buckling behaviour of electrospun microtubes: a simple theoretical model and experimental observations. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 015507.	2.8	37
10	Confinement mechanism of electrospun polymer nanofiber reinforcement. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 756-763.	2.1	32
11	The Role of Electrical Polarity in Electrospinning and on the Mechanical and Structural Properties of As-Spun Fibers. <i>Materials</i> , 2020, 13, 4169.	2.9	32
12	Free flight of an oscillated string pendulum as a tool for the mechanical characterization of an individual polymer nanofiber. <i>Applied Physics Letters</i> , 2008, 93, 193118.	3.3	27
13	Shifting of the melting point for semi-crystalline polymer nanofibers. <i>Europhysics Letters</i> , 2011, 93, 46001.	2.0	27
14	Fabrication of thermoset polymer nanofibers by co-electrospinning of uniform core-shell structures. <i>Journal of Materials Chemistry</i> , 2009, 19, 7198.	6.7	26
15	Thermo-mechanical behavior of electrospun thermoplastic polyurethane nanofibers. <i>European Polymer Journal</i> , 2013, 49, 3851-3856.	5.4	24
16	Size-dependent mechanical properties of glassy polymer nanofibers via molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 506-514.	2.1	22
17	Do surface effects explain the unique elasticity of polymer nanofibers?. <i>Europhysics Letters</i> , 2011, 96, 16006.	2.0	19
18	Liquid filament instability due to stretch-induced phase separation in polymer solutions. <i>European Physical Journal E</i> , 2014, 37, 10.	1.6	19

#	ARTICLE	IF	CITATIONS
19	pH-Controlled network formation in a mixture of oppositely charged cellulose nanocrystals and poly(allylamine). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1527-1536.	2.1	14
20	Inverted spring pendulum driven by a periodic force: linear versus nonlinear analysis. <i>European Journal of Physics</i> , 2008, 29, 385-392.	0.6	13
21	Polymerization kinetics under confinement. <i>Polymer Chemistry</i> , 2011, 2, 835.	3.9	13
22	Relaxation spectra of polymers and phenomena of electrical and hydrophobic recovery: Interplay between bulk and surface properties of polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 198-205.	2.1	13
23	Estimating the Degree of Polymer Stretching during Electrospinning: An Experimental Imitation Method. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600554.	3.6	11
24	Differentiation of Pancreatic Cyst Types by Analysis of Rheological Behavior of Pancreatic Cyst Fluid. <i>Scientific Reports</i> , 2017, 7, 45589.	3.3	10
25	Solution of the SU(N) massless thirring model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980, 95, 280-284.	4.1	9
26	Models for formation of supermolecular oligomeric liquid structures: Theory and experiment. <i>Polymer Engineering and Science</i> , 1997, 37, 1339-1347.	3.1	4
27	Relaxation suppression in a stretched copolymer matrix above T_g . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1254-1259.	2.1	4
28	Conformational statistics of ribbonlike semiflexible polymer chains. <i>Physical Review E</i> , 2005, 72, 051805.	2.1	3
29	Uniaxial ordering and rotator phase of ribbonlike polymers. <i>Physical Review E</i> , 2005, 72, 051806.	2.1	3
30	Longitudinal oscillations and flights of the string pendulum driven by a periodic force. <i>Physical Review E</i> , 2009, 79, 056609.	2.1	3
31	Supermolecular Structure Formation During Electrospinning, and Its Effect on Electrospun Polymer Nanofiber Unique Features. <i>Advanced Structured Materials</i> , 2019, , 173-204.	0.5	3
32	Random walks and anomalous diffusion in two-component random media. <i>Physical Review E</i> , 2005, 72, 021104.	2.1	2
33	Creep anomaly in electrospun fibers made of globular proteins. <i>Physical Review E</i> , 2013, 88, 062605.	2.1	2
34	The features of ribbon-like polymers in thin films. <i>Israel Journal of Chemistry</i> , 2007, 47, 289-298.	2.3	1
35	Application of ferromagnetic fluids in dispersion media diagnostics. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 85, 264-268.	2.3	0
36	Explanations of the Size-Dependent Behavior by a Physicist: Some Possible Reasons and Mechanisms. , 2017, , 147-182.		0

#	ARTICLE	IF	CITATIONS
37	Experimental Examination of Electrospun Polymer Nanofibers. , 2017, , 21-36.		0
38	Size-Dependent Behavior. , 2017, , 127-145.		0
39	Polymer Dynamics in Semi-dilute Solution During Electrospinning. , 2017, , 85-124.		0
40	Electrospinning of Polymer Nanofibers. , 2017, , 39-83.		0
41	3D printing of optical materials: an investigation of the microscopic properties. , 2018, , .		0