Arkadii Arinstein

List of Publications by Year
in descending order

41 papers	1,317 citations	430874 18 h-index	377865 34 g-index
42 all docs	42 docs citations	42 times ranked	1498 citing authors

#	Article	IF	Citations
1	The Role of Electrical Polarity in Electrospinning and on the Mechanical and Structural Properties of As-Spun Fibers. Materials, 2020, 13, 4169.	2.9	32
2	pHâ€Controlled network formation in a mixture of oppositely charged cellulose nanocrystals and poly(allylamine). Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1527-1536.	2.1	14
3	Supermolecular Structure Formation During Electrospinning, and Its Effect on Electrospun Polymer Nanofiber Unique Features. Advanced Structured Materials, 2019, , 173-204.	0.5	3
4	3D printing of optical materials: an investigation of the microscopic properties. , 2018, , .		0
5	Estimating the Degree of Polymer Stretching during Electrospinning: An Experimental Imitation Method. Macromolecular Materials and Engineering, 2017, 302, 1600554.	3.6	11
6	Differentiation of Pancreatic Cyst Types by Analysis of Rheological Behavior of Pancreatic Cyst Fluid. Scientific Reports, 2017, 7, 45589.	3.3	10
7	Sizeâ€dependent mechanical properties of glassy polymer nanofibers via molecular dynamics simulations. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 506-514.	2.1	22
8	Relaxation spectra of polymers and phenomena of electrical and hydrophobic recovery: Interplay between bulk and surface properties of polymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 198-205.	2.1	13
9	Explanations of the Size-Dependent Behavior by a Physicist: Some Possible Reasons and Mechanisms. , 2017, , 147-182.		0
10	Experimental Examination of Electrospun Polymer Nanofibers. , 2017, , 21-36.		0
11	Size-Dependent Behavior. , 2017, , 127-145.		0
12	Polymer Dynamics in Semi-dilute Solution During Electrospinning. , 2017, , 85-124.		0
13	Electrospinning of Polymer Nanofibers. , 2017, , 39-83.		0
14	Cryo-Imaging of Hydrogels Supermolecular Structure. Scientific Reports, 2016, 6, 25495.	3.3	49
15	Relaxation suppression in a stretched copolymer matrix above T_g. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1254-1259.	2.1	4
16	Liquid filament instability due to stretch-induced phase separation in polymer solutions. European Physical Journal E, 2014, 37, 10.	1.6	19
17	Polymer extension flows and instabilities. Progress in Polymer Science, 2014, 39, 959-978.	24.7	67
18	Confinement mechanism of electrospun polymer nanofiber reinforcement. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 756-763.	2.1	32

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19	Thermo-mechanical behavior of electrospun thermoplastic polyurethane nanofibers. European Polymer Journal, 2013, 49, 3851-3856.	5.4	24
20	Creep anomaly in electrospun fibers made of globular proteins. Physical Review E, 2013, 88, 062605.	2.1	2
21	Polymer dynamics in semidilute solution during electrospinning: A simple model and experimental observations. Physical Review E, 2011, 84, 041806.	2.1	60
22	Polymerization kinetics under confinement. Polymer Chemistry, 2011, 2, 835.	3.9	13
23	Electrospun polymer nanofibers: Mechanical and thermodynamic perspectives. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 691-707.	2.1	134
24	Do surface effects explain the unique elasticity of polymer nanofibers?. Europhysics Letters, 2011, 96, 16006.	2.0	19
25	Shifting of the melting point for semi-crystalline polymer nanofibers. Europhysics Letters, 2011, 93, 46001.	2.0	27
26	Buckling behaviour of electrospun microtubes: a simple theoretical model and experimental observations. Journal Physics D: Applied Physics, 2009, 42, 015507.	2.8	37
27	Longitudinal oscillations and flights of the string pendulum driven by a periodic force. Physical Review E, 2009, 79, 056609.	2.1	3
28	Fabrication of thermoset polymer nanofibers by co-electrospinning of uniform core-shell structures. Journal of Materials Chemistry, 2009, 19, 7198.	6.7	26
29	Free flight of an oscillated string pendulum as a tool for the mechanical characterization of an individual polymer nanofiber. Applied Physics Letters, 2008, 93, 193118.	3.3	27
30	Inverted spring pendulum driven by a periodic force: linear versus nonlinear analysis. European Journal of Physics, 2008, 29, 385-392.	0.6	13
31	Postprocesses in tubular electrospun nanofibers. Physical Review E, 2007, 76, 056303.	2.1	41
32	The features of ribbonâ€like polymers in thin films. Israel Journal of Chemistry, 2007, 47, 289-298.	2.3	1
33	Effect of supramolecular structure on polymer nanofibre elasticity. Nature Nanotechnology, 2007, 2, 59-62.	31.5	339
34	Equilibrium and irreversible unzipping of DNA in a nanopore. Europhysics Letters, 2006, 73, 128-134.	2.0	49
35	Conformational statistics of ribbonlike semiflexible polymer chains. Physical Review E, 2005, 72, 051805.	2.1	3
36	Random walks and anomalous diffusion in two-component random media. Physical Review E, 2005, 72, 021104.	2.1	2

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37	Uniaxial ordering and rotator phase of ribbonlike polymers. Physical Review E, 2005, 72, 051806.	2.1	3
38	Models for formation of supermolecular oligomeric liquid structures: Theory and experiment. Polymer Engineering and Science, 1997, 37, 1339-1347.	3.1	4
39	Application of ferromagnetic fluids in dispersion media diagnostics. Journal of Magnetism and Magnetic Materials, 1990, 85, 264-268.	2.3	0
40	Solution of the SU(N) massless thirring model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 95, 280-284.	4.1	9
41	Quantum S-matrix of the (1 + 1)-dimensional Todd chain. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 87, 389-392.	4.1	198