

# Arkadii Arinstein

## List of Publications by Year in descending order

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41  
papers

1,317  
citations

430442

18  
h-index

377514

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. <i>Materials</i> , 2020, 13, 4169.	1.3	32
2	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.	2.4	14
3	Supramolecular Structure Formation During Electrospinning, and Its Effect on Electrospun Polymer Nanofiber Unique Features. <i>Advanced Structured Materials</i> , 2019, , 173-204.	0.3	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. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600554.	1.7	11
6	Differentiation of Pancreatic Cyst Types by Analysis of Rheological Behavior of Pancreatic Cyst Fluid. <i>Scientific Reports</i> , 2017, 7, 45589.	1.6	10
7	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.	2.4	22
8	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.	2.4	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 Supramolecular Structure. <i>Scientific Reports</i> , 2016, 6, 25495.	1.6	49
15	Relaxation suppression in a stretched copolymer matrix above $T_g$ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1254-1259.	2.4	4
16	Liquid filament instability due to stretch-induced phase separation in polymer solutions. <i>European Physical Journal E</i> , 2014, 37, 10.	0.7	19
17	Polymer extension flows and instabilities. <i>Progress in Polymer Science</i> , 2014, 39, 959-978.	11.8	67
18	Confinement mechanism of electrospun polymer nanofiber reinforcement. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 756-763.	2.4	32

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical behavior of electrospun thermoplastic polyurethane nanofibers. <i>European Polymer Journal</i> , 2013, 49, 3851-3856.	2.6	24
20	Creep anomaly in electrospun fibers made of globular proteins. <i>Physical Review E</i> , 2013, 88, 062605.	0.8	2
21	Polymer dynamics in semidilute solution during electrospinning: A simple model and experimental observations. <i>Physical Review E</i> , 2011, 84, 041806.	0.8	60
22	Polymerization kinetics under confinement. <i>Polymer Chemistry</i> , 2011, 2, 835.	1.9	13
23	Electrospun polymer nanofibers: Mechanical and thermodynamic perspectives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 691-707.	2.4	134
24	Do surface effects explain the unique elasticity of polymer nanofibers?. <i>Europhysics Letters</i> , 2011, 96, 16006.	0.7	19
25	Shifting of the melting point for semi-crystalline polymer nanofibers. <i>Europhysics Letters</i> , 2011, 93, 46001.	0.7	27
26	Buckling behaviour of electrospun microtubes: a simple theoretical model and experimental observations. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 015507.	1.3	37
27	Longitudinal oscillations and flights of the string pendulum driven by a periodic force. <i>Physical Review E</i> , 2009, 79, 056609.	0.8	3
28	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
29	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.	1.5	27
30	Inverted spring pendulum driven by a periodic force: linear versus nonlinear analysis. <i>European Journal of Physics</i> , 2008, 29, 385-392.	0.3	13
31	Postprocesses in tubular electrospun nanofibers. <i>Physical Review E</i> , 2007, 76, 056303.	0.8	41
32	The features of ribbon-like polymers in thin films. <i>Israel Journal of Chemistry</i> , 2007, 47, 289-298.	1.0	1
33	Effect of supramolecular structure on polymer nanofibre elasticity. <i>Nature Nanotechnology</i> , 2007, 2, 59-62.	15.6	339
34	Equilibrium and irreversible unzipping of DNA in a nanopore. <i>Europhysics Letters</i> , 2006, 73, 128-134.	0.7	49
35	Conformational statistics of ribbonlike semiflexible polymer chains. <i>Physical Review E</i> , 2005, 72, 051805.	0.8	3
36	Random walks and anomalous diffusion in two-component random media. <i>Physical Review E</i> , 2005, 72, 021104.	0.8	2

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37	Uniaxial ordering and rotator phase of ribbonlike polymers. Physical Review E, 2005, 72, 051806.	0.8	3
38	Models for formation of supermolecular oligomeric liquid structures: Theory and experiment. Polymer Engineering and Science, 1997, 37, 1339-1347.	1.5	4
39	Application of ferromagnetic fluids in dispersion media diagnostics. Journal of Magnetism and Magnetic Materials, 1990, 85, 264-268.	1.0	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.	1.5	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.	1.5	198