

# Julia A Kornfield

## List of Publications by Year in descending order

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78  
papers

4,734  
citations

117625

34  
h-index

95266

68  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tungsten disulfide nanotubes enhance flow-induced crystallization and radio-opacity of polylactide without adversely affecting in vitro toxicity. <i>Acta Biomaterialia</i> , 2022, 138, 313-326.	8.3	8
2	PolyDODT: a macrocyclic elastomer with unusual properties. <i>Polymer Chemistry</i> , 2022, 13, 668-676.	3.9	5
3	WS <sub>2</sub> Nanotubes as a 1D Functional Filler for Melt Mixing with Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66	5.0	4
4	Tunable Temperature-Sensitive Transcriptional Activation Based on Lambda Repressor. <i>ACS Synthetic Biology</i> , 2022, 11, 2518-2522.	3.8	5
5	Ballistic delivery of compounds to inner layers of the cornea is limited by tough mechanical properties of stromal tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104246.	3.1	1
6	Interaction of Poly L-Lactide and Tungsten Disulfide Nanotubes Studied by In Situ X-ray Scattering during Expansion of PLLA/WS <sub>2</sub> NT Nanocomposite Tubes. <i>Polymers</i> , 2021, 13, 1764.	4.5	6
7	Crimping-induced structural gradients explain the lasting strength of poly (lactide) bioresorbable vascular scaffolds during hydrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10239-10244.	7.1	13
8	Tube Expansion Deformation Enables In Situ Synchrotron X-ray Scattering Measurements during Extensional Flow-Induced Crystallization of Poly L-Lactide Near the Glass Transition. <i>Polymers</i> , 2018, 10, 288.	4.5	13
9	Effect of tungsten disulfide (WS <sub>2</sub> ) nanotubes on structural, morphological and mechanical properties of poly(L-lactide) (PLLA) films. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
10	Fabrication of Active Surfaces with Metastable Microgel Layers Formed during Breath Figure Templating. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4177-4183.	8.0	20
11	Multiplicity of morphologies in poly (lactide) bioresorbable vascular scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11670-11675.	7.1	38
12	When Ends Meet: Circular DNA Stretches Differently in Elongational Flows. <i>Macromolecules</i> , 2015, 48, 5997-6001.	4.8	66
13	The linear rheological responses of wedge-type polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 899-906.	2.1	16
14	Megasupramolecules for safer, cleaner fuel by end association of long telechelic polymers. <i>Science</i> , 2015, 350, 72-75.	12.6	65
15	Visible-Light-Initiated Thiol-Acrylate Photopolymerization of Heparin-Based Hydrogels. <i>Biomacromolecules</i> , 2015, 16, 497-506.	5.4	66
16	Mechanism for Shish Formation under Shear Flow: An Interpretation from an in Situ Morphological Study. <i>Macromolecules</i> , 2013, 46, 1528-1542.	4.8	64
17	Effect of Long Chains on the Threshold Stresses for Flow-Induced Crystallization in iPP: Shish Kebabs vs Sausages. <i>Macromolecules</i> , 2012, 45, 6557-6570.	4.8	53
18	Linear Rheological Response of a Series of Densely Branched Brush Polymers. <i>Macromolecules</i> , 2011, 44, 6935-6943.	4.8	184

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19	Properties of small molecular drug loading and diffusion in a fluorinated PEG hydrogel studied by <sup>1</sup> H molecular diffusion NMR and <sup>19</sup> F spin diffusion NMR. <i>Colloid and Polymer Science</i> , 2010, 288, 1655-1663.	2.1	12
20	Yielding Behavior in Injectable Hydrogels from Telechelic Proteins. <i>Macromolecules</i> , 2010, 43, 9094-9099.	4.8	184
21	pH-responsive aqueous/LC interfaces using SGLCP-b-polyacrylic acid block copolymers. <i>Soft Matter</i> , 2010, 6, 1964.	2.7	55
22	Effects of pairwise, donor-acceptor functional groups on polymer solubility, solution viscosity and mist control. <i>Polymer</i> , 2009, 50, 6323-6330.	3.8	7
23	Self-Assembly of Coil/Liquid-Crystalline Diblock Copolymers in a Liquid Crystal Solvent. <i>Macromolecules</i> , 2009, 42, 299-307.	4.8	9
24	Effects of Pairwise, Self-Associating Functional Side Groups on Polymer Solubility, Solution Viscosity, and Mist Control. <i>Macromolecules</i> , 2009, 42, 1380-1391.	4.8	16
25	Efficient Synthesis of Narrowly Dispersed Brush Polymers via Living Ring-Opening Metathesis Polymerization of Macromonomers. <i>Macromolecules</i> , 2009, 42, 3761-3766.	4.8	293
26	Real-time depth sectioning: Isolating the effect of stress on structure development in pressure-driven flow. <i>Journal of Rheology</i> , 2009, 53, 1229-1254.	2.6	31
27	Study the property of double-ended fluoroalkyl poly(ethylene glycol) hydrogel as a depot for hydrophobic drug delivery using electron paramagnetic resonance technique and cell proliferation assay. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 45, 269-278.	2.4	7
28	Simultaneous birefringence, small- and wide-angle X-ray scattering to detect precursors and characterize morphology development during flow-induced crystallization of polymers. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 185-190.	2.4	20
29	Facile, Efficient Routes to Diverse Protected Thiols and to Their Deprotection and Addition to Create Functional Polymers by Thiol-Ene Coupling. <i>Macromolecules</i> , 2008, 41, 1151-1161.	4.8	112
30	Director dynamics in liquid-crystal physical gels. <i>Soft Matter</i> , 2007, 3, 993.	2.7	13
31	Structure and mechanical properties of artificial protein hydrogels assembled through aggregation of leucine zipper peptide domains. <i>Soft Matter</i> , 2007, 3, 99-107.	2.7	80
32	Humidity-Dependent Wetting Properties of High Hysteresis Surfaces. <i>Langmuir</i> , 2007, 23, 3-7.	3.5	19
33	Shear-Induced Alignment of Smectic Side Group Liquid Crystalline Polymers. <i>Macromolecules</i> , 2007, 40, 6624-6630.	4.8	20
34	Dynamic Properties of Artificial Protein Hydrogels Assembled through Aggregation of Leucine Zipper Peptide Domains. <i>Macromolecules</i> , 2007, 40, 689-692.	4.8	57
35	Molecular Basis of the Shish-Kebab Morphology in Polymer Crystallization. <i>Science</i> , 2007, 316, 1014-1017.	12.6	381
36	Synergistic Ordering of Side-Group Liquid Crystal Polymer and Small Molecule Liquid Crystal: Order and Phase Behavior of Nematic Polymer Solutions. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2242-2253.	2.2	8

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37	Rheological study of structural transitions in triblock copolymers in a liquid crystal solvent. <i>Soft Matter</i> , 2006, 2, 422.	2.7	20
38	Scanning Activity Gravimetric Analysis. <i>Macromolecules</i> , 2006, 39, 5946-5951.	4.8	9
39	Manipulation of Athermal Nuclei in Aqueous Poly(ethylene oxide) by Scanning Activity Gravimetric Analysis. <i>Macromolecules</i> , 2006, 39, 8419-8427.	4.8	15
40	Using the "Switchable" Quality of Liquid Crystal Solvents To Mediate Segregation between Coil and Liquid Crystalline Polymers. <i>Macromolecules</i> , 2006, 39, 3921-3926.	4.8	8
41	Tuning the erosion rate of artificial protein hydrogels through control of network topology. <i>Nature Materials</i> , 2006, 5, 153-158.	27.5	274
42	Single-particle levitation system for automated study of homogeneous solute nucleation. <i>Review of Scientific Instruments</i> , 2006, 77, 073901.	1.3	16
43	Buckling Instability in Liquid Crystalline Physical Gels. <i>Physical Review Letters</i> , 2006, 96, 147802.	7.8	16
44	Internal Tension: A Novel Hypothesis Concerning the Mechanical Properties of the Vitreous Humor. <i>Macromolecular Symposia</i> , 2005, 227, 183-190.	0.7	26
45	Sustained release of human growth hormone from in situ forming hydrogels using self-assembly of fluoroalkyl-ended poly(ethylene glycol). <i>Biomaterials</i> , 2005, 26, 5259-5266.	11.4	73
46	Molecular orientation of a commercial thermotropic liquid crystalline polymer in simple shear and complex flow. <i>Rheologica Acta</i> , 2005, 44, 446-456.	2.4	15
47	Effect of Mesophase Order on the Dynamics of Side Group Liquid Crystalline Polymers. <i>Macromolecules</i> , 2005, 38, 6946-6953.	4.8	15
48	Assembly of an Artificial Protein Hydrogel through Leucine Zipper Aggregation and Disulfide Bond Formation. <i>Macromolecules</i> , 2005, 38, 3909-3916.	4.8	116
49	Response to "Comments on the use of rheometers with rough surfaces or surfaces with protrusions", <i>Journal of Rheology</i> , 2005, 49, 1157-1158.	2.6	0
50	Self-assembled liquid-crystalline gels designed from the bottom up. <i>Nature Materials</i> , 2004, 3, 177-182.	27.5	76
51	Chain Anisotropy of Side-Group Liquid Crystalline Polymers in Nematic Solvents. <i>Macromolecules</i> , 2004, 37, 8730-8738.	4.8	9
52	Shear-Enhanced Crystallization in Isotactic Polypropylene. In-Situ Synchrotron SAXS and WAXD. <i>Macromolecules</i> , 2004, 37, 9005-9017.	4.8	132
53	Synthesis and Phase Behavior of Side-Group Liquid Crystalline Polymers in Nematic Solvents. <i>Macromolecules</i> , 2004, 37, 3569-3575.	4.8	9
54	Network Formation and Sieving Performance of Self-Assembling Hydrogels. <i>Macromolecules</i> , 2003, 36, 9154-9161.	4.8	2

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55	Columnar Discotic Liquid-Crystalline Oxadiazoles as Electron-Transport Materials. Langmuir, 2003, 19, 6534-6536.	3.5	82
56	Perdeuterated cyanobiphenyl liquid crystals for infrared applications. Journal of Applied Physics, 2002, 92, 7146-7148.	2.5	41
57	Orientalional Proliferation and Successive Twinning from Thermoreversible Hexagonal to Body-Centered Cubic Transitions. Macromolecules, 2002, 35, 785-794.	4.8	34
58	Anomalous Sorption in Thin Films of Fluoroalkyl-Ended Poly(ethylene glycol)s. Langmuir, 2002, 18, 8241-8245.	3.5	16
59	Recent Advances in Understanding Flow Effects on Polymer Crystallization. Industrial & Engineering Chemistry Research, 2002, 41, 6383-6392.	3.7	148
60	Shear-Enhanced Crystallization in Isotactic Polypropylene. 3. Evidence for a Kinetic Pathway to Nucleation. Macromolecules, 2002, 35, 1762-1769.	4.8	217
61	Ordering Transitions of Fluoroalkyl-Ended Poly(ethylene glycol): Rheology and SANS. Macromolecules, 2002, 35, 4448-4457.	4.8	58
62	Stratified morphology of a polypropylene/elastomer blend following channel flow. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2842-2859.	2.1	18
63	Shear-Mediated Crystallization of Isotactic Polypropylene: The Role of Long Chain to Long Chain Overlap. Macromolecules, 2002, 35, 2583-2594.	4.8	335
64	Transient molecular orientation and rheology in flow aligning thermotropic liquid crystalline polymers. Journal of Rheology, 2001, 45, 1029-1063.	2.6	35
65	Hydrogels with Controlled, Surface Erosion Characteristics from Self-Assembly of Fluoroalkyl-Ended Poly(ethylene glycol). Macromolecules, 2001, 34, 6409-6419.	4.8	56
66	Shear Aligning Properties of a Main-Chain Thermotropic Liquid Crystalline Polymer. Macromolecules, 2001, 34, 3654-3660.	4.8	29
67	Novel flow apparatus for investigating shear-enhanced crystallization and structure development in semicrystalline polymers. Review of Scientific Instruments, 1999, 70, 2097-2104.	1.3	66
68	Shear-Enhanced Crystallization in Isotactic Polypropylene. 1. Correspondence between in Situ Rheo-Optics and ex Situ Structure Determination. Macromolecules, 1999, 32, 7537-7547.	4.8	345
69	Dynamics and Shear Orientation Behavior of a Main-Chain Thermotropic Liquid Crystalline Polymer. Macromolecules, 1999, 32, 5581-5593.	4.8	57
70	Flow-induced alignment of lamellar block copolymer melts. Polymer, 1998, 39, 4679-4699.	3.8	102
71	Effect of Mesophase Order and Molecular Weight on the Dynamics of Nematic and Smectic Side-Group Liquid-Crystalline Polymers. Macromolecules, 1995, 28, 3521-3530.	4.8	54
72	Polarization modulation laser scanning microscopy: A powerful tool to image molecular orientation and order. Review of Scientific Instruments, 1994, 65, 2823-2828.	1.3	21

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73	Shear-induced orientation of side-group liquid-crystalline polymers. <i>Advanced Materials</i> , 1994, 6, 214-216.	21.0	14
74	Stress-optical manifestations of molecular and microstructural dynamics in complex polymer melts. <i>Journal of Rheology</i> , 1994, 38, 1127-1150.	2.6	31
75	Dynamics of flow-induced alignment of side-group liquid-crystalline polymers. <i>Journal of Rheology</i> , 1994, 38, 1609-1622.	2.6	19
76	Evolution of Microstructure and Viscoelasticity during Flow Alignment of a Lamellar Diblock Copolymer. <i>Macromolecules</i> , 1994, 27, 1177-1186.	4.8	97
77	Rheology of side-group liquid-crystalline polymers: effect of isotropic-nematic transition and evidence of flow alignment. <i>Macromolecules</i> , 1993, 26, 2050-2056.	4.8	58
78	Third normal stress difference and component relaxation spectra for bidisperse melts under oscillatory shear. <i>Macromolecules</i> , 1991, 24, 5429-5441.	4.8	15