

Heyi Liang

List of Publications by Year in descending order

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32
papers

1,251
citations

567281

15
h-index

454955

30
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docs citations

32
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Chameleon-like elastomers with molecularly encoded strain-adaptive stiffening and coloration. <i>Science</i> , 2018, 359, 1509-1513.	12.6	345
2	Mimicking biological stress-strain behaviour with synthetic elastomers. <i>Nature</i> , 2017, 549, 497-501.	27.8	286
3	Combs and Bottlebrushes in a Melt. <i>Macromolecules</i> , 2017, 50, 3430-3437.	4.8	117
4	Supersoft and Hyperelastic Polymer Networks with Brushlike Strands. <i>Macromolecules</i> , 2018, 51, 638-645.	4.8	64
5	Universality of the Entanglement Plateau Modulus of Comb and Bottlebrush Polymer Melts. <i>Macromolecules</i> , 2018, 51, 10028-10039.	4.8	61
6	Bottlebrush Bridge between Soft Gels and Firm Tissues. <i>ACS Central Science</i> , 2020, 6, 413-419.	11.3	56
7	Comb and Bottlebrush Graft Copolymers in a Melt. <i>Macromolecules</i> , 2019, 52, 3942-3950.	4.8	41
8	Strained Bottlebrushes in Super-Soft Physical Networks. <i>ACS Macro Letters</i> , 2019, 8, 530-534.	4.8	32
9	Nonlinear Elasticity and Swelling of Comb and Bottlebrush Networks. <i>Macromolecules</i> , 2019, 52, 5095-5101.	4.8	29
10	Soy protein-directed one-pot synthesis of gold nanomaterials and their functional conductive devices. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3643-3650.	5.8	25
11	Surface Stress and Surface Tension in Polymeric Networks. <i>ACS Macro Letters</i> , 2018, 7, 116-121.	4.8	25
12	Surface Stresses and a Force Balance at a Contact Line. <i>Langmuir</i> , 2018, 34, 7497-7502.	3.5	24
13	Scattering from Melts of Combs and Bottlebrushes: Molecular Dynamics Simulations and Theoretical Study. <i>Macromolecules</i> , 2019, 52, 5555-5562.	4.8	19
14	Computer Simulations of Continuous 3-D Printing. <i>Macromolecules</i> , 2017, 50, 7794-7800.	4.8	17
15	Molecular Dynamics Simulations of Surface and Interfacial Tension of Graft Polymer Melts. <i>Langmuir</i> , 2018, 34, 12974-12981.	3.5	17
16	Strain-Adaptive Self-Assembled Networks of Linear-Bottlebrush-Linear Copolymers. <i>Macromolecules</i> , 2019, 52, 8617-8624.	4.8	15
17	Molecular Dynamics Simulations of the Effect of Elastocapillarity on Reinforcement of Soft Polymeric Materials by Liquid Inclusions. <i>Macromolecules</i> , 2016, 49, 7108-7115.	4.8	12
18	Brush-Like Polymers and Entanglements: From Linear Chains to Filaments. <i>ACS Macro Letters</i> , 2019, 8, 1328-1333.	4.8	11

#	ARTICLE	IF	CITATIONS
19	Complex coacervation of statistical polyelectrolytes: role of monomer sequences and formation of inhomogeneous coacervates. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 790-804.	3.4	10
20	From Graphene-like Sheet Stabilized Emulsions to Composite Polymeric Foams: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2018, 51, 7360-7367.	4.8	7
21	Charged Polymers: From Polyelectrolyte Solutions to Polyelectrolyte Complexes. <i>Macromolecules</i> , 2021, 54, 7183-7192.	4.8	7
22	Degradation of Films of Block Copolymers: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2020, 53, 1270-1280.	4.8	5
23	A Coarse-Grained Molecular Dynamics Study of Strongly Charged Polyelectrolyte Coacervates: Interfacial, Structural, and Dynamical Properties. <i>Macromolecules</i> , 2022, 55, 4146-4158.	4.8	5
24	Bottom-Up Multiscale Approach to Estimate Viscoelastic Properties of Entangled Polymer Melts with High Glass Transition Temperature. <i>Macromolecules</i> , 0, , .	4.8	4
25	Electrical Conductivity of Graphene-Polymer Composite Foams: A Computational Study. <i>Macromolecules</i> , 2019, 52, 7379-7385.	4.8	3
26	Elastocapillarity and rolling dynamics of solid nanoparticles on soft elastic substrates. <i>Soft Matter</i> , 2020, 16, 2230-2237.	2.7	3
27	Bottlebrushes and Combs with Bimodal Distribution of the Side Chains: Diagram of States and Scattering Function. <i>Macromolecules</i> , 2021, 54, 1818-1828.	4.8	3
28	Theory and Simulations of Hybrid Networks. <i>Macromolecules</i> , 2021, 54, 7337-7346.	4.8	3
29	Rolling Dynamics of Nanoscale Elastic Shells Driven by Active Particles. <i>ACS Central Science</i> , 2018, 4, 1537-1544.	11.3	2
30	Gluing Interfaces with Soft Nanoparticles. <i>Langmuir</i> , 2019, 35, 7277-7284.	3.5	2
31	Computationally Driven Design of Soft Materials with Tissue-like Mechanical Properties. <i>ACS Symposium Series</i> , 2018, , 33-50.	0.5	1
32	Degradation of Block Copolymer Films Confined in Elastic Media: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2020, 53, 9460-9469.	4.8	0