

Ying Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,658
citations

26
h-index

47
g-index

116
ext. papers

3,230
ext. citations

4.5
avg, IF

5.81
L-index

#	Paper	IF	Citations
110	Integration of Machine Learning and Coarse-Grained Molecular Simulations for Polymer Materials: Physical Understandings and Molecular Design.. <i>Frontiers in Chemistry</i> , 2021 , 9, 820417	5	3
109	Benchmarking Machine Learning Models for Polymer Informatics: An Example of Glass Transition Temperature. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 5395-5413	6.1	6
108	The Effect of Void Arrangement on the Pattern Transformation of Porous Soft Solids under Biaxial Loading. <i>Materials</i> , 2021 , 14,	3.5	1
107	Adhesive rolling of nanoparticles in a lateral flow inspired from diagnostics of COVID-19. <i>Extreme Mechanics Letters</i> , 2021 , 44, 101239	3.9	
106	Machine learning discovery of high-temperature polymers. <i>Patterns</i> , 2021 , 2, 100225	5.1	12
105	Sticky Rouse Time Features the Self-Adhesion of Supramolecular Polymer Networks. <i>Macromolecules</i> , 2021 , 54, 5053-5064	5.5	2
104	Molecular simulation-guided and physics-informed mechanistic modeling of multifunctional polymers. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 725-745	2	1
103	Super Stretchable and Compressible Hydrogels Inspired by Hook-and-Loop Fasteners. <i>Langmuir</i> , 2021 , 37, 7760-7770	4	4
102	Predicting Polymers' Glass Transition Temperature by a Chemical Language Processing Model. <i>Polymers</i> , 2021 , 13,	4.5	8
101	Efficient separation of small organic contaminants in water using functionalized nanoporous graphene membranes: Insights from molecular dynamics simulations. <i>Journal of Membrane Science</i> , 2021 , 630, 119331	9.6	6
100	Red blood cell hitchhiking enhances the accumulation of nano- and micro-particles in the constriction of a stenosed microvessel. <i>Soft Matter</i> , 2021 , 17, 40-56	3.6	4
99	Magttice: a lattice model for hard-magnetic soft materials. <i>Soft Matter</i> , 2021 , 17, 3560-3568	3.6	9
98	Transparency Change Mechanochromism Based on a Robust PDMS-Hydrogel Bilayer Structure. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000446	4.8	12
97	Machine Learning of Coarse-Grained Models for Organic Molecules and Polymers: Progress, Opportunities, and Challenges. <i>ACS Omega</i> , 2021 , 6, 1758-1772	3.9	11
96	MAP123-EP: A mechanistic-based data-driven approach for numerical elastoplastic analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 364, 112955	5.7	13
95	Cholesterol-like Condensing Effect of Perfluoroalkyl Substances on a Phospholipid Bilayer. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5415-5425	3.4	4
94	Dislocation structure and dynamics govern pop-in modes of nanoindentation on single-crystal metals. <i>Philosophical Magazine</i> , 2020 , 100, 1585-1606	1.6	9

93	Anisotropy diffusion of water nanodroplets on phosphorene: Effects of pre-compressive deformation and temperature. <i>Computational Materials Science</i> , 2020 , 178, 109623	3.2	0
92	OpenFSI: A highly efficient and portable fluid-structure simulation package based on immersed-boundary method. <i>Computer Physics Communications</i> , 2020 , 256, 107463	4.2	4
91	Machine-Learning-Assisted De Novo Design of Organic Molecules and Polymers: Opportunities and Challenges. <i>Polymers</i> , 2020 , 12,	4.5	51
90	Membrane poration, wrinkling, and compression: deformations of lipid vesicles induced by amphiphilic Janus nanoparticles. <i>Nanoscale</i> , 2020 , 12, 20326-20336	7.7	4
89	Smart Polymers for Advanced Applications: A Mechanical Perspective Review. <i>Frontiers in Materials</i> , 2020 , 7,	4	14
88	A machine-learning-assisted study of the permeability of small drug-like molecules across lipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19687-19696	3.6	7
87	MAP123: A data-driven approach to use 1D data for 3D nonlinear elastic materials modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 357, 112587	5.7	18
86	Additive manufacturing of self-healing elastomers. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	63
85	pH-Dependent aggregation and pH-independent cell membrane adhesion of monolayer-protected mixed charged gold nanoparticles. <i>Nanoscale</i> , 2019 , 11, 7371-7385	7.7	14
84	Shape-Dependent Transport of Microparticles in Blood Flow: From Margination to Adhesion. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04019021	2.4	2
83	Tuning Surface Morphology of Polymer Films Through Bilayered Structures, Mechanical Forces, and External Stimuli 2019 , 291-314		1
82	Interplay between ligand mobility and nanoparticle geometry during cellular uptake of PEGylated liposomes and bicelles. <i>Nanoscale</i> , 2019 , 11, 15971-15983	7.7	4
81	Improved Dreiding force field for single layer black phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16804-16817	3.6	7
80	Tuning Chiral Nematic Pitch of Bioresourced Photonic Films via Coupling Organic Acid Hydrolysis. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802010	4.6	20
79	Polymer stiffness governs template mediated self-assembly of liposome-like nanoparticles: simulation, theory and experiment. <i>Nanoscale</i> , 2019 , 11, 20179-20193	7.7	5
78	20. Multiscale modeling of lipid membrane 2019 , 569-602		
77	Membrane Wrapping Efficiency of Elastic Nanoparticles during Endocytosis: Size and Shape Matter. <i>ACS Nano</i> , 2019 , 13, 215-228	16.7	73
76	Interplay of deformability and adhesion on localization of elastic micro-particles in blood flow. <i>Journal of Fluid Mechanics</i> , 2019 , 861, 55-87	3.7	15

75	Deformation and pattern transformation of porous soft solids under biaxial loading: Experiments and simulations. <i>Extreme Mechanics Letters</i> , 2018 , 20, 81-90	3.9	8
74	Understanding receptor-mediated endocytosis of elastic nanoparticles through coarse grained molecular dynamic simulation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16372-16385	3.6	29
73	Aggregation of polyethylene glycol polymers suppresses receptor-mediated endocytosis of PEGylated liposomes. <i>Nanoscale</i> , 2018 , 10, 4545-4560	7.7	46
72	Size of graphene sheets determines the structural and mechanical properties of 3D graphene foams. <i>Nanotechnology</i> , 2018 , 29, 104001	3.4	19
71	Manipulating nanoparticle transport within blood flow through external forces: an exemplar of mechanics in nanomedicine. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170845	2.4	44
70	Cell Stiffness Governs Its Adhesion Dynamics on Substrate Under Shear Flow. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 407-411	2.6	11
69	PEGylated Health Nanoparticles and liposomes 2018 , 1-26		10
68	Surface Instability of Bilayer Hydrogel Subjected to Both Compression and Solvent Absorption. <i>Polymers</i> , 2018 , 10,	4.5	4
67	What causes the anomalous aggregation in pluronic aqueous solutions?. <i>Soft Matter</i> , 2018 , 14, 7653-7663	3.6	7
66	Shear rate dependent margination of sphere-like, oblate-like and prolate-like micro-particles within blood flow. <i>Soft Matter</i> , 2018 , 14, 7401-7419	3.6	3
65	Anomalous Vascular Dynamics of Nanoworms within Blood Flow. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 66-77	5.5	14
64	Computational modeling of magnetic particle margination within blood flow through LAMMPS. <i>Computational Mechanics</i> , 2018 , 62, 457-476	4	25
63	Void nucleation in alloys with lamella particles under biaxial loadings. <i>Extreme Mechanics Letters</i> , 2018 , 22, 42-50	3.9	4
62	Self-assembled core-polyethylene glycol-lipid shell nanoparticles demonstrate high stability in shear flow. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13294-13306	3.6	19
61	Effects of Membrane Defects and Polymer Hydrophobicity on Networking Kinetics of Vesicles. <i>Langmuir</i> , 2017 , 33, 5745-5751	4	6
60	Transition of surface-interface creasing in bilayer hydrogels. <i>Soft Matter</i> , 2017 , 13, 6011-6020	3.6	10
59	Molecular insights into the effect of graphene packing on mechanical behaviors of graphene reinforced cis-1,4-polybutadiene polymer nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22417-22433	3.6	16
58	Tailoring the dispersion of nanoparticles and the mechanical behavior of polymer nanocomposites by designing the chain architecture. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32024-32037	3.6	13

57	Modular-based multiscale modeling on viscoelasticity of polymer nanocomposites. <i>Computational Mechanics</i> , 2017 , 59, 187-201	4	7
56	Design of mechanical metamaterials for simultaneous vibration isolation and energy harvesting. <i>Applied Physics Letters</i> , 2017 , 111, 251903	3.4	53
55	Carbon Nanotube Length Governs the Viscoelasticity and Permeability of Buckypaper. <i>Polymers</i> , 2017 , 9,	4.5	13
54	Effect of Cyclic Loading on Surface Instability of Silicone Rubber under Compression. <i>Polymers</i> , 2017 , 9,	4.5	11
53	Molecular simulation guided constitutive modeling on finite strain viscoelasticity of elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 88, 204-226	5	67
52	Cell and nanoparticle transport in tumour microvasculature: the role of size, shape and surface functionality of nanoparticles. <i>Interface Focus</i> , 2016 , 6, 20150086	3.9	64
51	Reversible wrinkles of monolayer graphene on a polymer substrate: toward stretchable and flexible electronics. <i>Soft Matter</i> , 2016 , 12, 3202-13	3.6	26
50	Computational Modeling of the Effect of Sulci during Tumor Growth and Cerebral Edema. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-9	3.2	1
49	Decorating Nanoparticle Surface for Targeted Drug Delivery: Opportunities and Challenges. <i>Polymers</i> , 2016 , 8,	4.5	62
48	Self-assembly of core-polyethylene glycol-lipid shell (CPLS) nanoparticles and their potential as drug delivery vehicles. <i>Nanoscale</i> , 2016 , 8, 14821-35	7.7	25
47	Environmental pollution of polybrominated diphenyl ethers from industrial plants in China: a preliminary investigation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 7012-21	5.1	20
46	Predicting band structure of 3D mechanical metamaterials with complex geometry via XFEM. <i>Computational Mechanics</i> , 2015 , 55, 659-672	4	19
45	Shape effect in cellular uptake of PEGylated nanoparticles: comparison between sphere, rod, cube and disk. <i>Nanoscale</i> , 2015 , 7, 16631-46	7.7	204
44	The effect of mechanical-driven volumetric change on instability patterns of bilayered soft solids. <i>Soft Matter</i> , 2015 , 11, 7911-9	3.6	14
43	Advancements in multiresolution analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 784-807	2.4	3
42	Tensile Stress-Driven Surface Wrinkles on Cylindrical CoreShell Soft Solids. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	10
41	The archetype-genome exemplar in molecular dynamics and continuum mechanics. <i>Computational Mechanics</i> , 2014 , 53, 687-737	4	15
40	Dynamic structure of unentangled polymer chains in the vicinity of non-attractive nanoparticles. <i>Soft Matter</i> , 2014 , 10, 1723-37	3.6	67

39	Multiscale modeling and uncertainty quantification in nanoparticle-mediated drug/gene delivery. <i>Computational Mechanics</i> , 2014 , 53, 511-537	4	43
38	Endocytosis of PEGylated nanoparticles accompanied by structural and free energy changes of the grafted polyethylene glycol. <i>Biomaterials</i> , 2014 , 35, 8467-78	15.6	142
37	Surface Ripples of Polymeric Nanofibers under Tension: The Crucial Role of Poisson's Ratio. <i>Macromolecules</i> , 2014 , 47, 6503-6514	5.5	20
36	Primitive-path statistics of entangled polymers: mapping multi-chain simulations onto single-chain mean-field models. <i>New Journal of Physics</i> , 2014 , 16, 015027	2.9	33
35	Challenges in Multiscale Modeling of Polymer Dynamics. <i>Polymers</i> , 2013 , 5, 751-832	4.5	143
34	Nanoparticle Geometrical Effect on Structure, Dynamics and Anisotropic Viscosity of Polyethylene Nanocomposites. <i>Macromolecules</i> , 2012 , 45, 2099-2112	5.5	87
33	Viscoelasticity of carbon nanotube buckypaper: zipping/unzipping mechanism and entanglement effects. <i>Soft Matter</i> , 2012 , 8, 7822	3.6	35
32	A predictive multiscale computational framework for viscoelastic properties of linear polymers. <i>Polymer</i> , 2012 , 53, 5935-5952	3.9	91
31	Nanoparticle effect on the dynamics of polymer chains and their entanglement network. <i>Physical Review Letters</i> , 2012 , 109, 118001	7.4	141
30	Computational study on entanglement length and pore size of carbon nanotube buckypaper. <i>Applied Physics Letters</i> , 2012 , 100, 021907	3.4	21
29	A theoretical evaluation of the effects of carbon nanotube entanglement and bundling on the structural and mechanical properties of buckypaper. <i>Carbon</i> , 2012 , 50, 1793-1806	10.4	81
28	Primitive chain network study on uncrosslinked and crosslinked cis-polyisoprene polymers. <i>Polymer</i> , 2011 , 52, 5867-5878	3.9	45
27	Effect of nano inclusions on the structural and physical properties of polyethylene polymer matrix. <i>Polymer</i> , 2011 , 52, 2310-2318	3.9	26
26	Super carbon nanotubes, fractal super tubes and fractal super fibres. <i>Materials Science and Technology</i> , 2010 , 26, 1327-1331	1.5	2
25	Twist-enhanced stretchability of graphene nanoribbons: a molecular dynamics study. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 495405	3	19
24	From fractal to multifractal super fibres and wool fibres with exceptional mechanical properties. <i>Materials Science and Technology</i> , 2010 , 26, 1323-1326	1.5	1
23	Multiple-cell elements and regular multifractals. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2010 , 31, 55-65	3.2	5
22	The elastic buckling of super-graphene and super-square carbon nanotube networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1773-1778	2.3	23

21	The specific heat of carbon nanotube networks and their potential applications. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 155405	3	16
20	The invariabilities in the free vibrations of carbon nanotube networks with identical boundary conditions. <i>Europhysics Letters</i> , 2009 , 88, 26006	1.6	3
19	Fractal geometry and topology abstracted from hair fibers. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2009 , 30, 983-990	3.2	7
18	Equivalent elastic moduli of a zigzag single-walled carbon nanotube given by uniform radial deformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 2368-2373	2.3	6
17	An estimation method on failure stress of micro thickness Cu film-substrate structure. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 2210-2215		8
16	Stretching-dominated deformation mechanism in a super square carbon nanotube network. <i>Carbon</i> , 2009 , 47, 812-819	10.4	29
15	Effect of equal channel angular extrusion process on deformation behaviors of Mg-3Al-Zn alloy. <i>Materials Letters</i> , 2008 , 62, 1856-1858	3.3	16
14	Ultra-high sensitivity of super carbon-nanotube-based mass and strain sensors. <i>Nanotechnology</i> , 2008 , 19, 165502	3.4	40
13	Buckling behavior of metal film/substrate structure under pure bending. <i>Applied Physics Letters</i> , 2008 , 92, 131902	3.4	21
12	Investigation on Characteristics of Structure and Simulation Analysis for Dragonfly Wing Vein. <i>Advanced Materials Research</i> , 2008 , 33-37, 785-788	0.5	1
11	The effective modulus of super carbon nanotubes predicted by molecular structure mechanics. <i>Nanotechnology</i> , 2008 , 19, 225701	3.4	27
10	A comprehensive study on the mechanical properties of super carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155423	3	16
9	Effects of Distance and Alignment Holes on Fatigue Crack Behaviors of Cast Magnesium Alloys. <i>Advanced Materials Research</i> , 2008 , 33-37, 13-18	0.5	3
8	SEM in-situ investigation on failure of nanometallic film/substrate structures under three-point bending loading. <i>International Journal of Fracture</i> , 2008 , 151, 269-279	2.3	22
7	Investigation on thermo-mechanical behaviors of artificial muscle films. <i>Journal of Materials Science</i> , 2008 , 43, 3733-3737	4.3	4
6	Specific heat of super carbon nanotube and its chirality independence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6960-6964	2.3	7
5	Effects of sandwich microstructures on mechanical behaviors of dragonfly wing vein. <i>Composites Science and Technology</i> , 2008 , 68, 186-192	8.6	66
4	Chirality independence in critical buckling forces of super carbon nanotubes. <i>Solid State Communications</i> , 2008 , 148, 63-68	1.6	12

3	Effects of elastic anisotropy on the surface stability of thin film/substrate system. <i>International Journal of Engineering Science</i> , 2008 , 46, 1325-1333	5.7	16
2	Design of Phononic Bandgap Metamaterials based on Gaussian Mixture Beta Variational Autoencoder and Iterative Model Updating. <i>Journal of Mechanical Design, Transactions of the ASME</i> ,1-35 ³		1
1	Mechanical Resilience of Biofilms toward Environmental Perturbations Mediated by Extracellular Matrix. <i>Advanced Functional Materials</i> ,2110699	15.6	1