

# Li-Heng Cai

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,554  
citations

471509

17  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

3978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital Assembly of Spherical Viscoelastic Bio-Ink Particles. <i>Advanced Functional Materials</i> , 2022, 32, 2109004.	14.9	6
2	A high-throughput multiparameter screen for accelerated development and optimization of soluble genetically encoded fluorescent biosensors. <i>Nature Communications</i> , 2022, 13, .	12.8	39
3	Anomalous mechanics of Zn <sup>2+</sup> -modified fibrin networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
4	Three-Dimensional Printable, Extremely Soft, Stretchable, and Reversible Elastomers from Molecular Architecture-Directed Assembly. <i>Chemistry of Materials</i> , 2021, 33, 2436-2445.	6.7	16
5	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of <i>In Vitro</i> Multicomponent Interpenetrating Cytoskeletal Networks. <i>Physical Review Letters</i> , 2021, 127, 108101.	7.8	15
6	Self-Assembly of Flexible Linear-Semiflexible Bottlebrush-Flexible Linear Triblock Copolymers. <i>Macromolecules</i> , 2021, 54, 9361-9371.	4.8	8
7	Rapid isolation of antigen-specific B-cells using droplet microfluidics. <i>RSC Advances</i> , 2020, 10, 27006-27013.	3.6	30
8	Molecular understanding for large deformations of soft bottlebrush polymer networks. <i>Soft Matter</i> , 2020, 16, 6259-6264.	2.7	15
9	Capillary transfer of soft films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5210-5216.	7.1	27
10	Molecular Architecture Directs Linear-Bottlebrush-Linear Triblock Copolymers to Self-Assemble to Soft Reprocessable Elastomers. <i>ACS Macro Letters</i> , 2019, 8, 1528-1534.	4.8	28
11	Millimeter-Size Pickering Emulsions Stabilized with Janus Microparticles. <i>Langmuir</i> , 2019, 35, 4693-4701.	3.5	55
12	Roles of mucus adhesion and cohesion in cough clearance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12501-12506.	7.1	79
13	Graphene oxide induced crosslinking and reinforcement of elastomers. <i>Composites Science and Technology</i> , 2017, 144, 223-229.	7.8	85
14	Ultrafast Nanofiltration through Large-Area Single-Layered Graphene Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9239-9244.	8.0	54
15	Self-Healing Materials: Tough Self-Healing Elastomers by Molecular Enforced Integration of Covalent and Reversible Networks ( <i>Adv. Mater.</i> 38/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	2
16	Tough Self-Healing Elastomers by Molecular Enforced Integration of Covalent and Reversible Networks. <i>Advanced Materials</i> , 2017, 29, 1702616.	21.0	304
17	One-Step Microfluidic Fabrication of Polyelectrolyte Microcapsules in Aqueous Conditions for Protein Release. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13470-13474.	13.8	90
18	One-Step Microfluidic Fabrication of Polyelectrolyte Microcapsules in Aqueous Conditions for Protein Release. <i>Angewandte Chemie</i> , 2016, 128, 13668-13672.	2.0	33

#	ARTICLE	IF	CITATIONS
19	Hidden in the mist no more: physical force in cell biology. <i>Nature Methods</i> , 2016, 13, 124-125.	19.0	18
20	Soft Poly(dimethylsiloxane) Elastomers from Architecture-Driven Entanglement Free Design. <i>Advanced Materials</i> , 2015, 27, 5132-5140.	21.0	163
21	Hopping Diffusion of Nanoparticles in Polymer Matrices. <i>Macromolecules</i> , 2015, 48, 847-862.	4.8	211
22	Cystic fibrosis airway secretions exhibit mucin hyperconcentration and increased osmotic pressure. <i>Journal of Clinical Investigation</i> , 2014, 124, 3047-3060.	8.2	272
23	A Periciliary Brush Promotes the Lung Health by Separating the Mucus Layer from Airway Epithelia. <i>Science</i> , 2012, 337, 937-941.	12.6	649
24	Mobility of Nonsticky Nanoparticles in Polymer Liquids. <i>Macromolecules</i> , 2011, 44, 7853-7863.	4.8	307
25	Template Synthesis and Magnetic Behavior of FeNi Alloy Nanotube Arrays. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 821-825.	1.3	31