

# Ling-Ying Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,636  
citations

279798

23  
h-index

289244

40  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1858  
citing authors

#	ARTICLE	IF	CITATIONS
1	2D and Layered Ti-based Materials for Supercapacitors and Rechargeable Batteries: Synthesis, Properties, and Applications. <i>Current Applied Materials</i> , 2022, 1, .	0.5	4
2	Form-Stable phase change composites based on porous carbon derived from polyacrylonitrile hydrogel. <i>Chemical Engineering Journal</i> , 2022, 431, 134206.	12.7	34
3	Selective sequential infiltration synthesis of ZnO in the liquid crystalline phase of silicon-containing rod-coil block copolymers. <i>Nanoscale</i> , 2022, 14, 1807-1813.	5.6	6
4	4D Printing of a Fully Biobased Shape Memory Copolyester <i>via</i> a UV-Assisted FDM Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6304-6312.	6.7	14
5	Research progress on ZnSe and ZnTe anodes for rechargeable batteries. <i>Nanoscale</i> , 2022, 14, 9609-9635.	5.6	15
6	Effect of Self-Nucleation and Stress-Induced Crystallization on the Tunable Two-Way Shape-Memory Effect of a Semicrystalline Network. <i>Macromolecules</i> , 2022, 55, 5104-5114.	4.8	16
7	Annealing Process Dependence of the Self-Assembly of Rod-Coil Block Copolymer Thin Films. <i>Macromolecules</i> , 2021, 54, 1657-1664.	4.8	12
8	Robust and ultrasensitive hydrogel sensors enhanced by MXene/cellulose nanocrystals. <i>Journal of Materials Science</i> , 2021, 56, 8871-8886.	3.7	25
9	Bending Behavior and Directed Self-Assembly of Rod-Coil Block Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10437-10445.	8.0	11
10	Preparation of silver nanoparticles by solid-state redox route from hydroxyethyl cellulose for antibacterial strain sensor hydrogel. <i>Carbohydrate Polymers</i> , 2021, 257, 117665.	10.2	34
11	Shape-Stable Hydrated Salts/Polyacrylamide Phase-Change Organohydrogels for Smart Temperature Management. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21810-21821.	8.0	45
12	Zwitterionic dual-network strategy for highly stretchable and transparent ionic conductor. <i>Polymer</i> , 2021, 231, 124111.	3.8	26
13	Antifreeze and moisturizing high conductivity PEDOT/PVA hydrogels for wearable motion sensor. <i>Journal of Materials Science</i> , 2020, 55, 1280-1291.	3.7	69
14	Healing, flexible, high thermal sensitive dual-network ionic conductive hydrogels for 3D linear temperature sensor. <i>Materials Science and Engineering C</i> , 2020, 107, 110310.	7.3	51
15	Polydopamine/polystyrene nanocomposite double-layer strain sensor hydrogel with mechanical, self-healing, adhesive and conductive properties. <i>Materials Science and Engineering C</i> , 2020, 109, 110567.	7.3	45
16	Hydrogel-based temperature sensor with water retention, frost resistance and remoldability. <i>Polymer</i> , 2020, 186, 122027.	3.8	66
17	Highly Efficient Solar Evaporator Based On a Hydrophobic Association Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18114-18125.	6.7	42
18	Transparent Stretchable Dual-Network Ionogel with Temperature Tolerance for High-Performance Flexible Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37597-37606.	8.0	92

#	ARTICLE	IF	CITATIONS
19	Resolving Triblock Terpolymer Morphologies by Vapor-Phase Infiltration. <i>Chemistry of Materials</i> , 2020, 32, 5309-5316.	6.7	14
20	Vertical Lamellae Formed by Two-Step Annealing of a Rod-Coil Liquid Crystalline Block Copolymer Thin Film. <i>ACS Nano</i> , 2020, 14, 4289-4297.	14.6	17
21	Multimechanism Physical Cross-Linking Results in Tough and Self-Healing Hydrogels for Various Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3378-3389.	4.4	14
22	Review Article: Layer-structured carbonaceous materials for advanced Li-ion and Na-ion batteries: Beyond graphene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	24
23	Self-assembly of a silicon-containing side-chain liquid crystalline block copolymer in bulk and in thin films: kinetic pathway of a cylinder to sphere transition. <i>Nanoscale</i> , 2019, 11, 285-293.	5.6	18
24	Tough hydrophobic association hydrogels with self-healing and reforming capabilities achieved by polymeric core-shell nanoparticles. <i>Materials Science and Engineering C</i> , 2019, 99, 460-467.	7.3	41
25	Core-Shell and Zigzag Nanostructures from a Thin Film Silicon-Containing Conformationally Asymmetric Triblock Terpolymer. <i>ACS Macro Letters</i> , 2019, 8, 852-858.	4.8	11
26	Strain-sensitivity conductive MWCNTs composite hydrogel for wearable device and near-infrared photosensor. <i>Journal of Materials Science</i> , 2019, 54, 8515-8530.	3.7	59
27	High-Strength, Self-Healable, Temperature-Sensitive, MXene-Containing Composite Hydrogel as a Smart Compression Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47350-47357.	8.0	168
28	Self-assembling GO/modified HEC hybrid stabilized pickering emulsions and template polymerization for biomedical hydrogels. <i>Carbohydrate Polymers</i> , 2019, 207, 694-703.	10.2	32
29	Thin Film Self-Assembly of a Silicon-Containing Rod-Coil Liquid Crystalline Block Copolymer. <i>Macromolecules</i> , 2019, 52, 679-689.	4.8	26
30	A mechanically robust double-network hydrogel with high thermal responses via doping hydroxylated boron nitride nanosheets. <i>Journal of Materials Science</i> , 2019, 54, 3368-3382.	3.7	27
31	H-bonding tuned phase transitions of a strong microphase-separated polydimethylsiloxane-b-poly(2-vinylpyridine) block copolymer. <i>Polymer</i> , 2018, 153, 277-286.	3.8	7
32	Dependences of Confining Size and Interfacial Curvature on the Glass Transition of Polydimethylsiloxane in Self-Assembled Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700518.	2.2	1
33	Stable, Strain-Sensitive Conductive Hydrogel with Antifreezing Capability, Remoldability, and Reusability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44000-44010.	8.0	234
34	Novel Self-Healing, Shape-Memory, Tunable Double-Layer Actuators Based on Semi-CPN and Physical Double-Network Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800505.	3.6	24
35	Tough, High stretched, Self-Healing & Hydrophobically Associated Compositing Hydrogels and Their Use for a Fluorescence Sensing Platform. <i>ChemistrySelect</i> , 2018, 3, 5756-5765.	1.5	3
36	Achieving enhanced hydrophobicity of graphene membranes by covalent modification with polydimethylsiloxane. <i>Applied Surface Science</i> , 2017, 404, 230-237.	6.1	32

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37	A novel self-assembled hybrid organogel of polypeptide-based block copolymers with inclusion of polypeptide-functionalized graphene. <i>RSC Advances</i> , 2017, 7, 1471-1479.	3.6	4
38	Thermoreversible Order~Order Transition of a Triblock Copolymer Containing a Mesogen~Cjacketed Liquid Crystalline Polymer with a Re~Entrant Phase Behavior. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1081-1088.	2.2	3
39	Extraordinary boundary morphologies of large-scale ordered domains of spheres in thin films of a narrowly dispersed diblock copolymer via thermodynamic control. <i>Nanoscale</i> , 2015, 7, 17756-17763.	5.6	6
40	Covalent modification of graphene as a 2D nanofiller for enhanced mechanical performance of poly(glutamate) hybrid gels. <i>RSC Advances</i> , 2015, 5, 86407-86413.	3.6	13
41	Synthesis and self-assembly of a linear coil-coil-rod ABC triblock copolymer. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 1524-1534.	3.8	23
42	Integration of Sn/C yolk~shell nanostructures into free-standing conductive networks as hierarchical composite 3D electrodes and the Li-ion insertion/extraction properties in a gel-type lithium-ion battery thereof. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19122-19130.	10.3	50
43	Synthesis and Self-Assembly of Rod~Rod Block Copolymers with Different Rod Diameters. <i>Macromolecules</i> , 2013, 46, 8253-8263.	4.8	27
44	Remarkably Rich Variety of Nanostructures and Order~Order Transitions in a Rod~Coil Diblock Copolymer. <i>Macromolecules</i> , 2013, 46, 5308-5316.	4.8	70
45	Hierarchical Structures in Thin Films of Macrophase- and Microphase-Separated AB/AC Diblock Copolymer Blends. <i>Macromolecules</i> , 2012, 45, 5530-5537.	4.8	15
46	Thermoreversible Order~Order Transition of a Diblock Copolymer Induced by the Unusual Coil~Rod Conformational Change of One Block. <i>Macromolecules</i> , 2012, 45, 9719-9726.	4.8	28
47	Order~Order Transition in a Rod~Coil Diblock Copolymer Induced by Supercritical CO <sub>2</sub> . <i>Macromolecules</i> , 2011, 44, 2900-2907.	4.8	38