

# Liang Gao

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metal-Organic Framework Threaded with Aminated Polymer Formed <i>in Situ</i> for Fast and Reversible Ion Exchange. <i>Journal of the American Chemical Society</i> , 2014, 136, 7209-7212.	6.6	107
2	Ion-exchange enabled synthetic swarm. <i>Nature Nanotechnology</i> , 2021, 16, 288-295.	15.6	73
3	Facile Soaking Strategy Toward Simultaneously Enhanced Conductivity and Toughness of Self-Healing Composite Hydrogels Through Constructing Multiple Noncovalent Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19133-19142.	4.0	56
4	Polystyrenesulfonate Threaded in MIL-101Cr(III): A Cationic Polyelectrolyte Synthesized Directly into a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2015, 27, 3601-3608.	3.2	52
5	A functionalized MIL-101(Cr) metal-organic framework for enhanced hydrogen release from ammonia borane at low temperature. <i>Chemical Communications</i> , 2013, 49, 10629.	2.2	50
6	Heterogenization of homogeneous chiral polymers in metal-organic frameworks with enhanced catalytic performance for asymmetric catalysis. <i>Green Chemistry</i> , 2018, 20, 4085-4093.	4.6	45
7	Highly Selective Transport of Alkali Metal Ions by Nanochannels of Polyelectrolyte Threaded MIL-53 Metal Organic Framework. <i>Nano Letters</i> , 2019, 19, 4990-4996.	4.5	31
8	Dual Thermo-responsive and pH-Responsive Poly(vinyl alcohol) Derivatives: Synthesis, Phase Transition Study, and Functional Applications. <i>Macromolecules</i> , 2016, 49, 7478-7489.	2.2	30
9	Multi-responsive, bidirectional, and large deformation bending actuators based on borax cross-linked polyvinyl alcohol derivative hydrogel. <i>RSC Advances</i> , 2017, 7, 40005-40014.	1.7	26
10	Tough and durable hydrogels with robust skin layers formed <i>via</i> soaking treatment. <i>Journal of Materials Chemistry B</i> , 2018, 6, 8043-8054.	2.9	26
11	Biomimetic Strain-Stiffening Hydrogel with Crimped Structure. <i>Advanced Functional Materials</i> , 2021, 31, 2104139.	7.8	26
12	Optimized Association of Short Alkyl Side Chains Enables Stiff, Self-Recoverable, and Durable Shape-Memory Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19554-19564.	4.0	24
13	Length Effects of Short Alkyl Side Chains on Phase-Separated Structure and Dynamics of Hydrophobic Association Hydrogels. <i>Macromolecules</i> , 2021, 54, 5962-5973.	2.2	23
14	Dispersed Association of Single-Component Short-Alkyl Chains toward Thermally Programmable and Malleable Multiple-Shape Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43622-43630.	4.0	22
15	Combustion synthesis of Cr <sub>2</sub> O <sub>3</sub> octahedra with a chromium-containing metal-organic framework as a sacrificial template. <i>CrystEngComm</i> , 2015, 17, 2620-2623.	1.3	21
16	Visible-light-mediated guest trapping in a photosensitizing porous coordination network: metal-free C-C bond-forming modification of metal-organic frameworks for aqueous-phase herbicide adsorption. <i>Chemical Communications</i> , 2019, 55, 5383-5386.	2.2	20
17	Protonated Emeraldine Polyaniline Threaded MIL-101 as a Conductive High Surface Area Nanoporous Electrode. <i>ACS Energy Letters</i> , 2021, 6, 3769-3779.	8.8	19
18	Proton conductive and low methanol permeable PVA-based zwitterionic membranes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20373-20384.	3.8	17

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19	Hierarchical Multiscale Hydrogels with Identical Compositions Yet Disparate Properties via Tunable Phase Separation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
20	Compartmentalization of Incompatible Polymers within Metal-Organic Frameworks towards Homogenization of Heterogeneous Hybrid Catalysts for Tandem Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, 9903-9909.	1.7	16
21	Polystyrene sulfonate threaded in MIL-101Cr as stable and efficient acid catalysts. <i>Dalton Transactions</i> , 2016, 45, 18084-18088.	1.6	15
22	Post-synthetic modification of polyvinyl alcohol with a series of N-alkyl-substituted carbamates towards thermo and CO <sub>2</sub> -responsive polymers. <i>Polymer Chemistry</i> , 2017, 8, 5769-5779.	1.9	15
23	Biomaterial strategies for the application of reproductive tissue engineering. <i>Bioactive Materials</i> , 2022, 14, 86-96.	8.6	14
24	Structural evolution of dispersed hydrophobic association in a hydrogel analyzed by the tensile behavior. <i>Soft Matter</i> , 2020, 16, 8245-8253.	1.2	11
25	Rationally Tuning Phase Separation in Polymeric Membranes toward Optimized All-day Passive Radiative Coolers. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 27222-27232.	4.0	11
26	Polyvinyl Alcohol-Based Thermogel with Tunable Gelation and Self-Healing Property. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800162.	1.1	10
27	Injectable, remoldable hydrogels with thermoresponsiveness, self-healing and cytocompatibility constructed via orthogonal assembly of well-defined star and linear polymers. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3232-3242.	2.9	8
28	Two cubane-type Ln <sub>4</sub> (OH) <sub>4</sub> compounds derived from tridentate ligand 8-hydroxyquinoline: Synthesis, structures, one/two-photon luminescence and magnetism. <i>Journal of Luminescence</i> , 2018, 198, 208-214.	1.5	2