# Zi Liang Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3269317/publications.pdf

Version: 2024-02-01

| 128 | 8,044 | 32410 | 60403 |
|---|---|---|---|
| papers | citations | 55 h-index | 85 g-index |

| 128 | 128 | 128 | 7490 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Solventâ€Castâ€Assisted Printing of Biomimetic Morphing Hydrogel Structures with Solvent Evaporationâ€Induced Swelling Mismatch. Advanced Functional Materials, 2022, 32, 2108548. | 7.8 | 17 |
| 2 | Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2020. Chinese Chemical Letters, 2022, 33, 1650-1658. | 4.8 | 47 |
| 3 | Paper without a Trail: Timeâ€Dependent Encryption using Pillar[5]areneâ€Based Hostâ€“Guest Invisible Ink. Advanced Materials, 2022, 34, e2108163. | 11.1 | 68 |
| 4 | Facile synthesis of tough metallosupramolecular hydrogels by using phosphates as temporary ligands of ferric ions to avoid inhibition of polymerization. Journal of Polymer Science, 2022, 60, 2280-2288. | 2.0 | 4 |
| 5 | 3D printing of tough hydrogels based on metal coordination with a two-step crosslinking strategy. Journal of Materials Chemistry B, 2022, 10, 2126-2134. | 2.9 | 7 |
| 6 | 3D printing of a tough double-network hydrogel and its use as a scaffold to construct a tissue-like hydrogel composite. Journal of Materials Chemistry B, 2022, 10, 468-476. | 2.9 | 22 |
| 7 | Multi-level encryption of information in morphing hydrogels with patterned fluorescence. Soft Matter, 2022, 18, 2149-2156. | 1.2 | 15 |
| 8 | Stretchable Sponge-like Hydrogels with a Unique Colloidal Network Produced by Polymerization-Induced Microphase Separation. Macromolecules, 2022, 55, 1424-1434. | 2.2 | 19 |
| 9 | Spontaneous and rapid electro-actuated snapping of constrained polyelectrolyte hydrogels. Science Advances, 2022, 8, eabm9608. | 4.7 | 45 |
| 10 | Programmable Morphing Hydrogels for Soft Actuators and Robots: From Structure Designs to Active Functions. Accounts of Chemical Research, 2022, 55, 1533-1545. | 7.6 | 94 |
| 11 | Recent advances in 3D printing of tough hydrogels: A review. Composites Part B: Engineering, 2022, 238, 109895. | 5.9 | 69 |
| 12 | Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal. Small, 2022, 18, e2201643. | 5.2 | 40 |
| 13 | Digital light processing 3D printing of hydrogels: a minireview. Molecular Systems Design and Engineering, 2022, 7, 1017-1029. | 1.7 | 22 |
| 14 | Digital Light Processing 3D Printing of Tough Supramolecular Hydrogels with Sophisticated Architectures as Impactâ€Absorption Elements. Advanced Materials, 2022, 34, . | 11.1 | 46 |
| 15 | Insight into acrylate copolymer dispersion with multiple interactions using large-amplitude oscillation shear. Polymer, 2021, 212, 123130. | 1.8 | 5 |
| 16 | Multi-responsive PNIPAMâ€“PEGDA hydrogel composite. Soft Matter, 2021, 17, 10421-10427. | 1.2 | 17 |
| 17 | A Mechanically Robust and Versatile Liquidâ€Free Ionic Conductive Elastomer. Advanced Materials, 2021, 33, e2006111. | 11.1 | 188 |
| 18 | Reconstructable Gradient Structures and Reprogrammable 3D Deformations of Hydrogels with Coumarin Units as the Photolabile Crosslinks. Advanced Materials, 2021, 33, e2008057. | 11.1 | 82 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hydrogen-Bond Association-Mediated Dynamics and Viscoelastic Properties of Tough Supramolecular Hydrogels. Macromolecules, 2021, 54, 4313-4325. | 2.2 | 77 |
| 20 | Tough and fluorescent hydrogels composed of poly(hydroxyurethane) and poly(stearyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (ac crosslinks. Journal of Polymer Science, 2021, 59, 904-911. | 2.0 | 15 |
| 21 | Ambiently and Mechanically Stable Ionogels for Soft Ionotronics. Advanced Functional Materials, 2021, 31, 2102773. | 7.8 | 95 |
| 22 | Dualâ€Encryption in a Shapeâ€Memory Hydrogel with Tunable Fluorescence and Reconfigurable Architecture. Advanced Materials, 2021, 33, e2102023. | 11.1 | 127 |
| 23 | Stimuli-Responsive Toughening of Hydrogels. Chemistry of Materials, 2021, 33, 7633-7656. | 3.2 | 68 |
| 24 | Selfâ€Shaping Soft Electronics Based on Patterned Hydrogel with Stencilâ€Printed Liquid Metal. Advanced Functional Materials, 2021, 31, 2105481. | 7.8 | 83 |
| 25 | Bioinspired, Recyclable, Stretchable Hydrogel with Boundary Ultralubrication. ACS Applied Materials & Interfaces, 2021, 13, 42240-42249. | 4.0 | 30 |
| 26 | Slight Zinc Doping by an Ultrafast Electrodeposition Process Boosts the Cycling Performance of Layered Double Hydroxides for Ultralong-Life-Span Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 38346-38357. | 4.0 | 36 |
| 27 | Plastic-Like Supramolecular Hydrogels with Polyelectrolyte/Surfactant Complexes as Physical Cross-links. Macromolecules, 2021, 54, 8052-8066. | 2.2 | 25 |
| 28 | Engineering Tough Metallosupramolecular Hydrogel Films with Kirigami Structures for Compliant Soft Electronics. Small, 2021, 17, e2103836. | 5.2 | 75 |
| 29 | Molecularly Engineered Zwitterionic Hydrogels with High Toughness and Self-Healing Capacity for Soft Electronics Applications. Chemistry of Materials, 2021, 33, 8418-8429. | 3.2 | 85 |
| 30 | Patterned Electrode Assisted Oneâ€Step Fabrication of Biomimetic Morphing Hydrogels with Sophisticated Anisotropic Structures. Advanced Science, 2021, 8, e2102353. | 5.6 | 35 |
| 31 | Synergic influences of network topologies and associative interactions on the microstructures and bulk performances of hydrogels. Journal of Materials Chemistry B, 2021, 9, 9863-9873. | 2.9 | 10 |
| 32 | Understanding the Dissociation of Hydrogen Bond Based Cross-Links In Hydrogels Due to Hydration and Mechanical Forces. Macromolecules, 2021, 54, 11316-11325. | 2.2 | 12 |
| 33 | Carbon Dot/Poly(methylacrylic acid) Nanocomposite Hydrogels with High Toughness and Strong Fluorescence. ACS Applied Polymer Materials, 2020, 2, 1043-1052. | 2.0 | 25 |
| 34 | Accelerating solar desalination in brine through ion activated hierarchically porous polyion complex hydrogels. Materials Horizons, 2020, 7, 3187-3195. | 6.4 | 99 |
| 35 | Distributed Electric Field Induces Orientations of Nanosheets to Prepare Hydrogels with Elaborate Ordered Structures and Programmed Deformations. Advanced Materials, 2020, 32, e2005567. | 11.1 | 89 |
| 36 | Light-steered locomotion of muscle-like hydrogel by self-coordinated shape change and friction modulation. Nature Communications, 2020, 11, 5166. | 5.8 | 148 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Photoregulated Gradient Structure and Programmable Mechanical Performances of Tough Hydrogels with a Hydrogen-Bond Network. ACS Applied Materials & Interfaces, 2020, 12, 53376-53384. | 4.0 | 17 |
| 38 | Stereocomplexed and homocrystalline thermo-responsive physical hydrogels with a tunable network structure and thermo-responsiveness. Journal of Materials Chemistry B, 2020, 8, 7947-7955. | 2.9 | 14 |
| 39 | Programmable Deformations of Biomimetic Composite Hydrogels Embedded with Printed Fibers. ACS Applied Materials & Interfaces, 2020, 12, 57497-57504. | 4.0 | 11 |
| 40 | Reversibly Transforming a Highly Swollen Polyelectrolyte Hydrogel to an Extremely Tough One and its Application as a Tubular Grasper. Advanced Materials, 2020, 32, e2005171. | 11.1 | 136 |
| 41 | Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. Journal of Materials Chemistry C, 2020, 8, 7688-7697. | 2.7 | 32 |
| 42 | Programmable Reversible Shape Transformation of Hydrogels Based on Transient Structural Anisotropy. Advanced Materials, 2020, 32, e2001693. | 11.1 | 77 |
| 43 | Hierarchical NiCo-layered double hydroxide nanoscroll@PANI nanocomposite for high performance battery-type supercapacitor. Electrochimica Acta, 2020, 338, 135869. | 2.6 | 85 |
| 44 | Constitutive behaviors of tough physical hydrogels with dynamic metal-coordinated bonds. Journal of the Mechanics and Physics of Solids, 2020, 139, 103935. | 2.3 | 56 |
| 45 | Kirigamiâ€Ðesignâ€Enabled Hydrogel Multimorphs with Application as a Multistate Switch. Advanced Materials, 2020, 32, e2000781. | 11.1 | 93 |
| 46 | Mechanochemistry of an Interlocked Poly[2]catenane: From Single Molecule to Bulk Gel. CCS Chemistry, 2020, 2, 513-523. | 4.6 | 52 |
| 47 | Programmable Multistable Hydrogel Morphs. Advanced Intelligent Systems, 2019, 1, 1900055. | 3.3 | 14 |
| 48 | Programmed Diffusion Induces Anisotropic Superstructures in Hydrogels with High Mechanoâ€Optical Sensitivity. Advanced Materials Technologies, 2019, 4, 1900665. | 3.0 | 14 |
| 49 | Thermo- and photo-responsive composite hydrogels with programmed deformations. Journal of Materials Chemistry B, 2019, 7, 1674-1678. | 2.9 | 55 |
| 50 | Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. ACS Applied Materials & Interfaces, 2019, 11, 43631-43640. | 4.0 | 32 |
| 51 | Slide-Ring Cross-Links Mediated Tough Metallosupramolecular Hydrogels with Superior Self-Recoverability. Macromolecules, 2019, 52, 6748-6755. | 2.2 | 68 |
| 52 | Internal Damage Evolution in Double-Network Hydrogels Studied by Microelectrode Technique. Macromolecules, 2019, 52, 7114-7122. | 2.2 | 10 |
| 53 | Anisotropic nanocomposite films of hydroxypropylcellulose and graphene oxide with multi-responsiveness. RSC Advances, 2019, 9, 28876-28885. | 1.7 | 3 |
| 54 | Reversible Ionâ€Conducting Switch in a Novel Singleâ€Ion Supramolecular Hydrogel Enabled by Photoresponsive Hostâ€“Guest Molecular Recognition. Advanced Materials, 2019, 31, e1807328. | 11.1 | 144 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Controllable Bending of Bi-hydrogel Strips with Differential Swelling. Acta Mechanica Solida Sinica, 2019, 32, 652-662. | 1.0 | 15 |
| 56 | Ductile â€œIceâ€• Frozen hydrogels with high ductility and compressive yielding strength. Extreme Mechanics Letters, 2019, 28, 43-49. | 2.0 | 11 |
| 57 | Tough supramolecular hydrogels with excellent self-recovery behavior mediated by metal-coordination interaction. Polymer, 2019, 171, 201-210. | 1.8 | 36 |
| 58 | Ultrastiff and Tough Supramolecular Hydrogels with a Dense and Robust Hydrogen Bond Network. Chemistry of Materials, 2019, 31, 1430-1440. | 3.2 | 241 |
| 59 | Strategy to construct polyzwitterionic hydrogel coating with antifouling, drag-reducing and weak swelling performance. RSC Advances, 2019, 9, 2081-2091. | 1.7 | 42 |
| 60 | Direct 3D printing of a tough hydrogel incorporated with carbon nanotubes for bone regeneration. Journal of Materials Chemistry B, 2019, 7, 7207-7217. | 2.9 | 62 |
| 61 | Interpenetrating thermophobic and thermophilic dual responsive networks. Journal of Polymer Science Part A, 2019, 57, 539-544. | 2.5 | 4 |
| 62 | Sequentially Controlled Deformations of Patterned Hydrogels into 3D Configurations with Multilevel Structures. Macromolecular Rapid Communications, 2019, 40, e1800681. | 2.0 | 13 |
| 63 | Improved Toughness and Stability of Î²-Carrageenan/Polyacrylamide Double-Network Hydrogels by Dual Cross-Linking of the First Network. Macromolecules, 2019, 52, 629-638. | 2.2 | 106 |
| 64 | Photolithographically Patterned Hydrogels with Programmed Deformations. Chemistry - an Asian Journal, 2019, 14, 94-104. | 1.7 | 25 |
| 65 | Ultrathin Î²-Carrageenan/Chitosan Hydrogel Films with High Toughness and Antiadhesion Property. ACS Applied Materials & Interfaces, 2018, 10, 9002-9009. | 4.0 | 82 |
| 66 | Dualâ€Crosslink Physical Hydrogels with High Toughness Based on Synergistic Hydrogen Bonding and Hydrophobic Interactions. Macromolecular Rapid Communications, 2018, 39, e1700806. | 2.0 | 72 |
| 67 | Tough and Conductive Hybrid Hydrogels Enabling Facile Patterning. ACS Applied Materials & Interfaces, 2018, 10, 13685-13692. | 4.0 | 82 |
| 68 | Catenane Crosslinked Mechanically Adaptive Polymer Gel. Macromolecular Rapid Communications, 2018, 39, 1700361. | 2.0 | 43 |
| 69 | Kinetic Insights into Marangoni Effect-Assisted Preparation of Ultrathin Hydrogel Films. Langmuir, 2018, 34, 12310-12317. | 1.6 | 10 |
| 70 | A Tough and Stiff Hydrogel with Tunable Water Content and Mechanical Properties Based on the Synergistic Effect of Hydrogen Bonding and Hydrophobic Interaction. Macromolecules, 2018, 51, 8136-8146. | 2.2 | 179 |
| 71 | Single Chromophore-Based White-Light-Emitting Hydrogel with Tunable Fluorescence and Patternability. ACS Applied Materials & Interfaces, 2018, 10, 39343-39352. | 4.0 | 76 |
| 72 | Spin-coating-assisted fabrication of ultrathin physical hydrogel films with high toughness and fast response. Soft Matter, 2018, 14, 5888-5897. | 1.2 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Programmed Deformations of 3Dâ€Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. Advanced Functional Materials, 2018, 28, 1803366. | 7.8 | 172 |
| 74 | Interpenetrating polymer network hydrogels composed of chitosan and photocrosslinkable gelatin with enhanced mechanical properties for tissue engineering. Materials Science and Engineering C, 2018, 92, 612-620. | 3.8 | 120 |
| 75 | Hydrogen bondâ€reinforced doubleâ€network hydrogels with ultrahigh elastic modulus and shape memory property. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1281-1286. | 2.4 | 42 |
| 76 | Dual Ionically Cross-linked Double-Network Hydrogels with High Strength, Toughness, Swelling Resistance, and Improved 3D Printing Processability. ACS Applied Materials & Interfaces, 2018, 10, 31198-31207. | 4.0 | 165 |
| 77 | 3D-Printed Ultratough Hydrogel Structures with Titin-like Domains. ACS Applied Materials & Interfaces, 2017, 9, 11363-11367. | 4.0 | 39 |
| 78 | Hydrogen bond reinforced poly(1-vinylimidazole-co-acrylic acid) hydrogels with high toughness, fast self-recovery, and dual pH-responsiveness. Polymer, 2017, 131, 95-103. | 1.8 | 65 |
| 79 | Siteâ€Specific Preâ€Swellingâ€Directed Morphing Structures of Patterned Hydrogels. Angewandte Chemie - International Edition, 2017, 56, 15974-15978. | 7.2 | 105 |
| 80 | Stereocomplexed physical hydrogels with high strength and tunable crystallizability. Soft Matter, 2017, 13, 8502-8510. | 1.2 | 24 |
| 81 | Cooperative deformations of periodically patterned hydrogels. Science Advances, 2017, 3, e1700348. | 4.7 | 100 |
| 82 | A Facile Approach To Prepare Tough and Responsive Ultrathin Physical Hydrogel Films as Artificial Muscles. ACS Applied Materials & Interfaces, 2017, 9, 34349-34355. | 4.0 | 70 |
| 83 | Siteâ€Specific Preâ€Swellingâ€Directed Morphing Structures of Patterned Hydrogels. Angewandte Chemie, 2017, 129, 16190-16194. | 1.6 | 12 |
| 84 | Preparation of a white-light-emitting fluorescent supramolecular polymer gel with a single chromophore and use of the gel to fabricate a protected quick response code. Materials Chemistry Frontiers, 2017, 1, 167-171. | 3.2 | 58 |
| 85 | Ultrastiff Hydrogels Prepared by Schiff's Base Reaction of Bis(pâ€Formylphenyl) Sebacate and Pillar[5]arene Appended with Multiple Hydrazides. Macromolecular Rapid Communications, 2017, 38, 1700232. | 2.0 | 31 |
| 86 | Waterâ€Triggered Selfâ€Healing Coatings of Hydrogenâ€Bonded Complexes for High Binding Affinity and Antioxidative Property. Advanced Materials Interfaces, 2016, 3, 1600167. | 1.9 | 48 |
| 87 | Light Responsive Microstructured Surfaces of Liquid Crystalline Network with Shape Memory and Tunable Wetting Behaviors. Macromolecular Rapid Communications, 2016, 37, 311-317. | 2.0 | 19 |
| 88 | Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, Stickâ€“Slip Tearing Behavior, and Good Processability. Macromolecules, 2016, 49, 9637-9646. | 2.2 | 320 |
| 89 | Thermoresponsive physical hydrogels of poly(lactic acid)/poly(ethylene glycol) stereoblock copolymers tuned by stereostructure and hydrophobic block sequence. Soft Matter, 2016, 12, 4628-4637. | 1.2 | 51 |
| 90 | Processing tough supramolecular hydrogels with tunable strength of polyion complex. Polymer, 2016, 95, 9-17. | 1.8 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Monodomain hydrogels prepared by shear-induced orientation and subsequent gelation. RSC Advances, 2016, 6, 95239-95245. | 1.7 | 30 |
| 92 | Programmed planar-to-helical shape transformations of composite hydrogels with bioinspired layered fibrous structures. Journal of Materials Chemistry B, 2016, 4, 7075-7079. | 2.9 | 74 |
| 93 | Hydrophobic association mediated physical hydrogels with high strength and healing ability. Polymer, 2016, 100, 60-68. | 1.8 | 68 |
| 94 | 3D Printing of Ultratough Polyion Complex Hydrogels. ACS Applied Materials & Interfaces, 2016, 8, 31304-31310. | 4.0 | 105 |
| 95 | Viscoelastic Behaviors of Carbon Black Gel Extracted from Highly Filled Natural Rubber Compounds: Insights into the Payne Effect. Macromolecules, 2016, 49, 1454-1463. | 2.2 | 70 |
| 96 | Supramolecular Construction of Multifluorescent Gels: Interfacial Assembly of Discrete Fluorescent Gels through Multiple Hydrogen Bonding. Advanced Materials, 2015, 27, 8062-8066. | 11.1 | 118 |
| 97 | Annealing of supporting layer to develop nanofiltration membrane with high thermal stability and ion selectivity. Journal of Membrane Science, 2015, 476, 475-482. | 4.1 | 28 |
| 98 | Solvent andCa2+triggered robust and fast stress generation by ultrathin triple-network hydrogels. Extreme Mechanics Letters, 2014, 1, 17-22. | 2.0 | 0 |
| 99 | Fracture Process of Microgel-Reinforced Hydrogels under Uniaxial Tension. Macromolecules, 2014, 47, 3587-3594. | 2.2 | 55 |
| 100 | Crosslinking of low density polyethylene with octavinyl polyhedral oligomeric silsesquioxane as the crosslinker. RSC Advances, 2014, 4, 44030-44038. | 1.7 | 30 |
| 101 | In SituObservation of Ca2+Diffusion-Induced Superstructure Formation of a Rigid Polyanion. Macromolecules, 2014, 47, 7208-7214. | 2.2 | 20 |
| 102 | Control superstructure of rigid polyelectrolytes in oppositely charged hydrogels via programmed internal stress. Nature Communications, 2014, 5, 4490. | 5.8 | 64 |
| 103 | Three-dimensional shape transformations of hydrogel sheets induced by small-scale modulation of internal stresses. Nature Communications, 2013, 4, 1586. | 5.8 | 518 |
| 104 | Multiple Shape Transformations of Composite Hydrogel Sheets. Journal of the American Chemical Society, 2013, 135, 4834-4839. | 6.6 | 302 |
| 105 | Microstructured Nematic Liquid Crystalline Elastomer Surfaces with Switchable Wetting Properties. Advanced Functional Materials, 2013, 23, 3070-3076. | 7.8 | 63 |
| 106 | Stimuli-Responsive Topological Change of Microstructured Surfaces and the Resultant Variations of Wetting Properties. ACS Applied Materials & Interfaces, 2013, 5, 7485-7491. | 4.0 | 38 |
| 107 | Supramolecular Assemblies of a Semirigid Polyanion in Aqueous Solutions. Macromolecules, 2013, 46, 3581-3586. | 2.2 | 20 |
| 108 | Geometric and Edge Effects on Swelling-Induced Ordered Structure Formation in Polyelectrolyte Hydrogels. Macromolecules, 2013, 46, 9083-9090. | 2.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | High Fracture Efficiency and Stress Concentration Phenomenon for Microgel-Reinforced Hydrogels Based on Double-Network Principle. Macromolecules, 2012, 45, 9445-9451. | 2.2 | 75 |
| 110 | Structure Optimization and Mechanical Model for Microgel-Reinforced Hydrogels with High Strength and Toughness. Macromolecules, 2012, 45, 5218-5228. | 2.2 | 119 |
| 111 | Toughness Enhancement and Stickâ€“Slip Tearing of Double-Network Hydrogels in Poly(ethylene glycol) Solution. Macromolecules, 2012, 45, 4758-4763. | 2.2 | 29 |
| 112 | Hydrogels with a macroscopic-scale liquid crystal structure by self-assembly of a semi-rigid polyion complex. Polymer Journal, 2012, 44, 503-511. | 1.3 | 13 |
| 113 | Swelling-induced long-range ordered structure formation in polyelectrolyte hydrogel. Soft Matter, 2012, 8, 8060. | 1.2 | 22 |
| 114 | Self-assembled structures of a semi-rigid polyanion in aqueous solutions and hydrogels. Science China Chemistry, 2012, 55, 735-742. | 4.2 | 9 |
| 115 | Hydrogel with cubic-packed giant concentric domains of semi-rigid polyion complex. Soft Matter, 2011, 7, 1884. | 1.2 | 10 |
| 116 | Strain-Induced Molecular Reorientation and Birefringence Reversion of a Robust, Anisotropic Double-Network Hydrogel. Macromolecules, 2011, 44, 3542-3547. | 2.2 | 61 |
| 117 | Direct Observation on the Surface Fracture of Ultrathin Film Double-Network Hydrogels. Macromolecules, 2011, 44, 3016-3020. | 2.2 | 45 |
| 118 | Anisotropic Hydrogel from Complexation-Driven Reorientation of Semirigid Polyanion at Ca<sup>2+</sup> Diffusion Flux Front. Macromolecules, 2011, 44, 3535-3541. | 2.2 | 67 |
| 119 | Microgel-Reinforced Hydrogel Films with High Mechanical Strength and Their Visible Mesoscale Fracture Structure. Macromolecules, 2011, 44, 7775-7781. | 2.2 | 248 |
| 120 | Novel Developed Systems and Techniques Based on Double-Network Principle. Bulletin of the Chemical Society of Japan, 2011, 84, 1295-1311. | 2.0 | 33 |
| 121 | Hydrogels with self-assembling ordered structures and their functions. NPG Asia Materials, 2011, 3, 57-64. | 3.8 | 71 |
| 122 | Hydrogels with Cylindrically Symmetric Structure at Macroscopic Scale by Self-Assembly of Semi-rigid Polyion Complex. Journal of the American Chemical Society, 2010, 132, 10064-10069. | 6.6 | 47 |
| 123 | Dual Network Formation in Polyelectrolyte Hydrogel via Viscoelastic Phase Separation: Role of Ionic Strength and Polymerization Kinetics. Macromolecules, 2010, 43, 8202-8208. | 2.2 | 26 |
| 124 | Mesoscopic Network Structure of a Semiâ€Rigid Polyion Complex Nested in a Polycationic Hydrogel. Advanced Materials, 2009, 21, 4696-4700. | 11.1 | 4 |
| 125 | Ultrathin tough double network hydrogels showing adjustable muscle-like isometric force generation triggered by solvent. Chemical Communications, 2009, , 7518. | 2.2 | 58 |
| 126 | Low heat generation from organic zinc as a curing activator in rubber and rubber composites under large strain. Nano Select, 0, , . | 1.9 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Tough complex hydrogels transformed from highly swollen polyelectrolyte hydrogels based on Cu2+ coordination with anti-bacterial property. Journal of Materials Chemistry B, 0, , . | 2.9 | 10 |
| 128 | Magnetoâ€Orientation of Magnetic Double Stacks for Patterned Anisotropic Hydrogels with Multiple Responses and Modulable Motions. Angewandte Chemie, 0, , . | 1.6 | 2 |