

Kunpeng Cui

List of Publications by Citations

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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.

48
papers

1,505
citations

25
h-index

38
g-index

50
ext. papers

1,817
ext. citations

7.6
avg, IF

4.77
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 48 | Multiscale and Multistep Ordering of Flow-Induced Nucleation of Polymers. <i>Chemical Reviews</i> , 2018 , 118, 1840-1886 | 68.1 | 153 |
| 47 | Stretch-Induced Crystal-Crystal Transition of Polybutene-1: An in Situ Synchrotron Radiation Wide-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2012 , 45, 2764-2772 | 5.5 | 109 |
| 46 | Bulk Energy Dissipation Mechanism for the Fracture of Tough and Self-Healing Hydrogels. <i>Macromolecules</i> , 2017 , 50, 2923-2931 | 5.5 | 76 |
| 45 | Self-Acceleration of Nucleation and Formation of Shish in Extension-Induced Crystallization with Strain Beyond Fracture. <i>Macromolecules</i> , 2012 , 45, 5477-5486 | 5.5 | 66 |
| 44 | Correlation between Flow-Induced Nucleation Morphologies and Strain in Polyethylene: From Uncorrelated Oriented Point-Nuclei, Scaffold-Network, and Microshish to Shish. <i>Macromolecules</i> , 2013 , 46, 3435-3443 | 5.5 | 65 |
| 43 | Multiscale Energy Dissipation Mechanism in Tough and Self-Healing Hydrogels. <i>Physical Review Letters</i> , 2018 , 121, 185501 | 7.4 | 63 |
| 42 | Extension-Induced Nucleation under Near-Equilibrium Conditions: The Mechanism on the Transition from Point Nucleus to Shish. <i>Macromolecules</i> , 2014 , 47, 6813-6823 | 5.5 | 61 |
| 41 | Extension Flow Induced Crystallization of Poly(ethylene oxide). <i>Macromolecules</i> , 2011 , 44, 7704-7712 | 5.5 | 50 |
| 40 | Nonequilibrium Nature of Flow-Induced Nucleation in Isotactic Polypropylene. <i>Macromolecules</i> , 2015 , 48, 694-699 | 5.5 | 49 |
| 39 | Mesoscale bicontinuous networks in self-healing hydrogels delay fatigue fracture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7606-7612 | 11.5 | 48 |
| 38 | Kinetic Process of Shish Formation: From Stretched Network to Stabilized Nuclei. <i>Macromolecules</i> , 2015 , 48, 5276-5285 | 5.5 | 46 |
| 37 | The non-equilibrium phase diagrams of flow-induced crystallization and melting of polyethylene. <i>Scientific Reports</i> , 2016 , 6, 32968 | 4.9 | 45 |
| 36 | Extensional rheometer for in situ x-ray scattering study on flow-induced crystallization of polymer. <i>Review of Scientific Instruments</i> , 2011 , 82, 045104 | 1.7 | 41 |
| 35 | Mixing Assisted Direct Formation of Isotactic Poly(1-butene) Form I? Crystals from Blend Melt of Isotactic Poly(1-butene)/Polypropylene. <i>Macromolecules</i> , 2016 , 49, 1761-1769 | 5.5 | 39 |
| 34 | Facile synthesis of novel elastomers with tunable dynamics for toughness, self-healing and adhesion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17334-17344 | 13 | 37 |
| 33 | Flow-Induced Precursors of Isotactic Polypropylene: An in Situ Time and Space Resolved Study with Synchrotron Radiation Scanning X-ray Microdiffraction. <i>Macromolecules</i> , 2014 , 47, 4408-4416 | 5.5 | 37 |
| 32 | Hydrogels as dynamic memory with forgetting ability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18962-18968 | 11.5 | 37 |

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| 31 | Multimorphological Crystallization of Shish-Kebab Structures in Isotactic Polypropylene: Quantitative Modeling of Parent-Daughter Crystallization Kinetics. <i>Macromolecules</i> , 2014 , 47, 5152-5162 | 5.5 | 36 |
| 30 | Extension-Induced Crystallization of Poly(ethylene oxide) Bidisperse Blends: An Entanglement Network Perspective. <i>Macromolecules</i> , 2014 , 47, 677-686 | 5.5 | 35 |
| 29 | Stretching-induced ion complexation in physical polyampholyte hydrogels. <i>Soft Matter</i> , 2016 , 12, 8833-8840 | 3.4 | 34 |
| 28 | Supertough Lignin Hydrogels with Multienergy Dissipative Structures and Ultrahigh Antioxidative Activities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39892-39901 | 9.5 | 32 |
| 27 | Tough and Self-Recoverable Thin Hydrogel Membranes for Biological Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1801489 | 15.6 | 31 |
| 26 | Investigation on the recovery performance of olefin block copolymer/hexadecane form stable phase change materials with shape memory properties. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 132, 632-639 | 6.4 | 30 |
| 25 | Effect of Structure Heterogeneity on Mechanical Performance of Physical Polyampholytes Hydrogels. <i>Macromolecules</i> , 2019 , 52, 7369-7378 | 5.5 | 28 |
| 24 | Phase Separation Behavior in Tough and Self-Healing Polyampholyte Hydrogels. <i>Macromolecules</i> , 2020 , 53, 5116-5126 | 5.5 | 25 |
| 23 | A simple constrained uniaxial tensile apparatus for in situ investigation of film stretching processing. <i>Review of Scientific Instruments</i> , 2013 , 84, 115104 | 1.7 | 25 |
| 22 | A novel apparatus combining polymer extrusion processing and x-ray scattering. <i>Polymer Testing</i> , 2014 , 33, 40-47 | 4.5 | 17 |
| 21 | Effect of mesoscale phase contrast on fatigue-delaying behavior of self-healing hydrogels. <i>Science Advances</i> , 2021 , 7, | 14.3 | 16 |
| 20 | Molecular mechanism leading to memory effect of mesomorphic isotactic polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1573-1580 | 2.6 | 16 |
| 19 | The thermodynamic properties of flow-induced precursor of polyethylene. <i>Science China Chemistry</i> , 2015 , 58, 1570-1578 | 7.9 | 15 |
| 18 | Constrained and free uniaxial stretching induced crystallization of polyethylene film: A comparative study. <i>Polymer Testing</i> , 2014 , 36, 110-118 | 4.5 | 15 |
| 17 | Stress Relaxation and Underlying Structure Evolution in Tough and Self-Healing Hydrogels. <i>ACS Macro Letters</i> , 2020 , 9, 1582-1589 | 6.6 | 15 |
| 16 | Aggregated structures and their functionalities in hydrogels. <i>Aggregate</i> , 2021 , 2, e33 | 22.9 | 15 |
| 15 | Relaxation Dynamics and Underlying Mechanism of a Thermally Reversible Gel from Symmetric Triblock Copolymer. <i>Macromolecules</i> , 2019 , 52, 8651-8661 | 5.5 | 11 |
| 14 | Disentanglement decelerating flow-induced nucleation. <i>Polymer</i> , 2013 , 54, 942-947 | 3.9 | 10 |

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| 13 | Molecular mechanism of abnormally large nonsoftening deformation in a tough hydrogel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 10 |
| 12 | Confined crystallization in end-linked PEO network under uniaxial extension. <i>Polymer</i> , 2013 , 54, 7088-7093 | 9.3 | 8 |
| 11 | Relaxation propelled long period change in the extension induced crystallization of polyethylene oxide. <i>Soft Matter</i> , 2013 , 9, 10759 | 3.6 | 8 |
| 10 | Tough, self-recovery and self-healing polyampholyte hydrogels. <i>Polymer Science - Series C</i> , 2017 , 59, 11-17 | 7.1 | 8 |
| 9 | A small-angle x-ray scattering system with a vertical layout. <i>Review of Scientific Instruments</i> , 2014 , 85, 125110 | 1.7 | 8 |
| 8 | Tough Hydrogels with Dynamic H-Bonds: Structural Heterogeneities and Mechanical Performances. <i>Macromolecules</i> , | 5.5 | 7 |
| 7 | Constitutive modeling of bond breaking and healing kinetics of physical Polyampholyte (PA) gel. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101184 | 3.9 | 5 |
| 6 | Lamellar Bilayer to Fibril Structure Transformation of Tough Photonic Hydrogel under Elongation. <i>Macromolecules</i> , 2020 , 53, 4711-4721 | 5.5 | 4 |
| 5 | High-Fidelity Hydrogel Thin Films Processed from Deep Eutectic Solvents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43191-43200 | 9.5 | 4 |
| 4 | A new three-dimensional (3D) multilayer organic material: synthesis, swelling, exfoliation, and application. <i>Langmuir</i> , 2013 , 29, 3813-20 | 4 | 3 |
| 3 | Tough and Self-Healing Hydrogels from Polyampholytes. <i>Advances in Polymer Science</i> , 2020 , 295-317 | 1.3 | 2 |
| 2 | Constitutive modeling of strain-dependent bond breaking and healing kinetics of chemical polyampholyte (PA) gel. <i>Soft Matter</i> , 2021 , 17, 4161-4169 | 3.6 | 2 |
| 1 | Tough Hydrogels Based on Sacrificial Bond Principle | 1-28 | |