# Bradley D Olsen

List of Publications by Year
in descending order



168
papers

7,470
citations

57758

44
h-index

64796

79
g-index

173
all docs

173
docs citations

173
times ranked

7738
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hierarchy of relaxation times in supramolecular polymer model networks. Physical Chemistry Chemical Physics, 2022, 24, 4859-4870. | 2.8 | 2 |
| 2 | Modulating Nanoparticle Size to Understand Factors Affecting Hemostatic Efficacy and Maximize Survival in a Lethal Inferior Vena Cava Injury Model. ACS Nano, 2022, 16, 2494-2510. | 14.6 | 8 |
| 3 | Synthesis of a Series of Folate-Terminated Dendrimer-<i>b</i>-PNIPAM Diblock Copolymers: Soft Nanoelements That Self-Assemble into Thermo- and pH-Responsive Spherical Nanocompounds. Macromolecules, 2022, 55, 2924-2939. | 4.8 | 3 |
| 4 | A review of treatments for non-compressible torso hemorrhage (NCTH) and internal bleeding. Biomaterials, 2022, 283, 121432. | 11.4 | 19 |
| 5 | Coarse-Grained Simulations for Fracture of Polymer Networks: Stress Versus Topological Inhomogeneities. Macromolecules, 2022, 55, 4-14. | 4.8 | 9 |
| 6 | EXPANSE: A time-of-flight EXPanded Angle Neutron Spin Echo spectrometer at the Second Target Station of the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, . | 1.3 | 4 |
| 7 | Self-Diffusion in a Weakly Entangled Associative Network. Macromolecules, 2022, 55, 6056-6066. | 4.8 | 2 |
| 8 | Anomalous Diffusion in Associative Networks of High-Sticker-Density Polymers. Macromolecules, 2021, 54, 1354-1365. | 4.8 | 11 |
| 9 | Tuning Selective Transport of Biomolecules through Site-Mutated Nucleoporin-like Protein (NLP) Hydrogels. Biomacromolecules, 2021, 22, 289-298. | 5.4 | 5 |
| 10 | SANS quantification of bound water in water-soluble polymers across multiple concentration regimes. Soft Matter, 2021, 17, 5303-5318. | 2.7 | 8 |
| 11 | Effect of sticker clustering on the dynamics of associative networks. Soft Matter, 2021, 17, 8960-8972. | 2.7 | 12 |
| 12 | PolyDAT: A Generic Data Schema for Polymer Characterization. Journal of Chemical Information and Modeling, 2021, 61, 1150-1163. | 5.4 | 16 |
| 13 | Mechanism Dictates Mechanics: A Molecular Substituent Effect in the Macroscopic Fracture of a Covalent Polymer Network. Journal of the American Chemical Society, 2021, 143, 3714-3718. | 13.7 | 37 |
| 14 | Single-Event Spectroscopy and Unravelling Kinetics of Covalent Domains Based on Cyclobutane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5269-5276. | 13.7 | 20 |
| 15 | Adding the Effect of Topological Defects to the Floryâ€“Rehner and Brayâ€“Merrill Swelling Theories. ACS Macro Letters, 2021, 10, 531-537. | 4.8 | 18 |
| 16 | Molecular Characterization of Polymer Networks. Chemical Reviews, 2021, 121, 5042-5092. | 47.7 | 140 |
| 17 | Going Above and Beyond: A Tenfold Gain in the Performance of Luminescence Thermometers Joining Multiparametric Sensing and Multiple Regression. Laser and Photonics Reviews, 2021, 15, 2100301. | 8.7 | 41 |
| 18 | Development of a Rubber Recycling Process Based on a Single-Component Interfacial Adhesive. ACS Applied Polymer Materials, 2021, 3, 4849-4860. | 4.4 | 6 |

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| 19 | Toughening hydrogels through force-triggered chemical reactions that lengthen polymer strands. Science, 2021, 374, 193-196. | 12.6 | 124 |
| 20 | Random Forest Predictor for Diblock Copolymer Phase Behavior. ACS Macro Letters, 2021, 10, 1339-1345. | 4.8 | 20 |
| 21 | Mechanisms of Self-Diffusion of Linear Associative Polymers Studied by Brownian Dynamics Simulation. Macromolecules, 2021, 54, 11212-11227. | 4.8 | 5 |
| 22 | Effect of Protein Surface Charge Distribution on Proteinâ€"Polyelectrolyte Complexation. Biomacromolecules, 2020, 21, 3026-3037. | 5.4 | 35 |
| 23 | Polymer Domains Control Diffusion in Proteinâ€"Polymer Conjugate Biosensors. ACS Applied Polymer Materials, 2020, 2, 4481-4492. | 4.4 | 5 |
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| 25 | Glycoprotein Mimics with Tunable Functionalization through Global Amino Acid Substitution and Copper Click Chemistry. Bioconjugate Chemistry, 2020, 31, 554-566. | 3.6 | 15 |
| 26 | Coiled-Coil Domains for Self-Assembly and Sensitivity Enhancement of Proteinâ€"Polymer Conjugate Biosensors. ACS Applied Polymer Materials, 2020, 2, 1114-1123. | 4.4 | 6 |
| 27 | Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. Polymers, 2020, 12, 847. | 4.5 | 18 |
| 28 | Secondary structure drives self-assembly in weakly segregated globular proteinâ€"rod block copolymers. Polymer Chemistry, 2020, 11, 3032-3045. | 3.9 | 5 |
| 29 | Molecular anisotropy and rearrangement as mechanisms of toughness and extensibility in entangled physical gels. Physical Review Materials, 2020, 4, . | 2.4 | 13 |
| 30 | Understanding the molecular origin of shear thinning in associative polymers through quantification of bond dissociation under shear. Physical Review Materials, 2020, 4, . | 2.4 | 10 |
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| 37 | BigSMILES: A Structurally-Based Line Notation for Describing Macromolecules. ACS Central Science, 2019, 5, 1523-1531. | 11.3 | 134 |
| 38 | Protein Purification by Ethanol-Induced Phase Transitions of the Elastin-like Polypeptide (ELP). Industrial & Engineering Chemistry Research, 2019, 58, 11698-11709. | 3.7 | 14 |
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| 44 | Systemically Administered Hemostatic Nanoparticles for Identification and Treatment of Internal Bleeding. ACS Biomaterials Science and Engineering, 2019, 5, 2563-2576. | 5.2 | 21 |
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| 49 | Topological Structure of Networks Formed from Symmetric Four-Arm Precursors. Macromolecules, 2018, 51, 1224-1231. | 4.8 | 72 |
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| 52 | A Molecular Explanation for Anomalous Diffusion in Supramolecular Polymer Networks. Macromolecules, 2018, 51, 2517-2525. | 4.8 | 31 |
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| 54 | Nucleopore-Inspired Polymer Hydrogels for Selective Biomolecular Transport. Biomacromolecules, 2018, 19, 3905-3916. | 5.4 | 27 |

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| 66 | Artificially Engineered Protein Polymers. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 549-575. | 6.8 | 73 |
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