

Bradley D Olsen

List of Publications by Year in descending order

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168
papers

7,470
citations

57758

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all docs

173
docs citations

173
times ranked

7738
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Synthesis of Narrowly Dispersed Brush Copolymers and Study of Their Assemblies: The Importance of Side Chain Arrangement. <i>Journal of the American Chemical Society</i> , 2009, 131, 18525-18532.	13.7	441
2	Quantifying the impact of molecular defects on polymer network elasticity. <i>Science</i> , 2016, 353, 1264-1268.	12.6	360
3	The mechanical properties and cytotoxicity of cell-laden double-network hydrogels based on photocrosslinkable gelatin and gellan gum biomacromolecules. <i>Biomaterials</i> , 2012, 33, 3143-3152.	11.4	342
4	Self-assembly of rod-coil block copolymers. <i>Materials Science and Engineering Reports</i> , 2008, 62, 37-66.	31.8	329
5	Shear-Thinning Nanocomposite Hydrogels for the Treatment of Hemorrhage. <i>ACS Nano</i> , 2014, 8, 9833-9842.	14.6	318
6	A Highly Elastic and Rapidly Crosslinkable Elastin-Like Polypeptide-Based Hydrogel for Biomedical Applications. <i>Advanced Functional Materials</i> , 2015, 25, 4814-4826.	14.9	201
7	Counting primary loops in polymer gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19119-19124.	7.1	189
8	Yielding Behavior in Injectable Hydrogels from Telechelic Proteins. <i>Macromolecules</i> , 2010, 43, 9094-9099.	4.8	184
9	Structure and Thermodynamics of Weakly Segregated Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2005, 38, 10127-10137.	4.8	163
10	An injectable shear-thinning biomaterial for endovascular embolization. <i>Science Translational Medicine</i> , 2016, 8, 365ra156.	12.4	147
11	Molecular Characterization of Polymer Networks. <i>Chemical Reviews</i> , 2021, 121, 5042-5092.	47.7	140
12	BigSMILES: A Structurally-Based Line Notation for Describing Macromolecules. <i>ACS Central Science</i> , 2019, 5, 1523-1531.	11.3	134
13	Toughening hydrogels through force-triggered chemical reactions that lengthen polymer strands. <i>Science</i> , 2021, 374, 193-196.	12.6	124
14	Reinforcement of Shear Thinning Protein Hydrogels by Responsive Block Copolymer Self-Assembly. <i>Advanced Functional Materials</i> , 2013, 23, 1182-1193.	14.9	118
15	Complex coacervation of supercharged proteins with polyelectrolytes. <i>Soft Matter</i> , 2016, 12, 3570-3581.	2.7	110
16	Anomalous Self-Diffusion and Sticky Rouse Dynamics in Associative Protein Hydrogels. <i>Journal of the American Chemical Society</i> , 2015, 137, 3946-3957.	13.7	107
17	Universalization of the Phase Diagram for a Model Rod-Coil Diblock Copolymer. <i>Macromolecules</i> , 2008, 41, 6809-6817.	4.8	99
18	Nonlamellar Phases in Asymmetric Rod-Coil Block Copolymers at Increased Segregation Strengths. <i>Macromolecules</i> , 2007, 40, 6922-6929.	4.8	98

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19	Synthesis and Application of Protein-Containing Block Copolymers. ACS Macro Letters, 2015, 4, 101-110.	4.8	89
20	Universal Cyclic Topology in Polymer Networks. Physical Review Letters, 2016, 116, 188302.	7.8	89
21	Solid-State Nanostructured Materials from Self-Assembly of a Globular Protein-Polymer Diblock Copolymer. ACS Nano, 2011, 5, 5697-5707.	14.6	88
22	Hierarchical Nanostructure Control in Rod-Coil Block Copolymers with Magnetic Fields. Nano Letters, 2007, 7, 2742-2746.	9.1	86
23	Loops versus Branch Functionality in Model Click Hydrogels. Macromolecules, 2015, 48, 8980-8988.	4.8	86
24	Phase Transitions in Asymmetric Rod-Coil Block Copolymers. Macromolecules, 2006, 39, 7078-7083.	4.8	84
25	Crossover Experiments Applied to Network Formation Reactions: Improved Strategies for Counting Elastically Inactive Molecular Defects in PEG Gels and Hyperbranched Polymers. Journal of the American Chemical Society, 2014, 136, 9464-9470.	13.7	82
26	Relaxation Processes in Supramolecular Metallogels Based on Histidine-Nickel Coordination Bonds. Macromolecules, 2016, 49, 9163-9175.	4.8	73
27	Artificially Engineered Protein Polymers. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 549-575.	6.8	73
28	Topological Structure of Networks Formed from Symmetric Four-Arm Precursors. Macromolecules, 2018, 51, 1224-1231.	4.8	72
29	Antiviral Agents from Multivalent Presentation of Sialyl Oligosaccharides on Brush Polymers. ACS Macro Letters, 2016, 5, 413-418.	4.8	70
30	Semibatch monomer addition as a general method to tune and enhance the mechanics of polymer networks via loop-defect control. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4875-4880.	7.1	67
31	Kinetic Monte Carlo Simulation for Quantification of the Gel Point of Polymer Networks. ACS Macro Letters, 2017, 6, 1414-1419.	4.8	64
32	Kinetically Controlled Nanostructure Formation in Self-Assembled Globular Protein-Polymer Diblock Copolymers. Biomacromolecules, 2012, 13, 2781-2792.	5.4	61
33	Phase transitions in concentrated solution self-assembly of globular protein-polymer block copolymers. Soft Matter, 2013, 9, 2393.	2.7	60
34	Counting Secondary Loops Is Required for Accurate Prediction of End-Linked Polymer Network Elasticity. ACS Macro Letters, 2018, 7, 244-249.	4.8	60
35	Making thin polymeric materials, including fabrics, microbicidal and also water-repellent. Biotechnology Letters, 2003, 25, 1661-1665.	2.2	59
36	Revisiting the Elasticity Theory for Real Gaussian Phantom Networks. Macromolecules, 2019, 52, 1685-1694.	4.8	57

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37	Thin Film Structure of Symmetric Rod-coil Block Copolymers. <i>Macromolecules</i> , 2007, 40, 3287-3295.	4.8	56
38	Self-Diffusion of Associating Star-Shaped Polymers. <i>Macromolecules</i> , 2016, 49, 5599-5608.	4.8	55
39	Odd-even Effect of Junction Functionality on the Topology and Elasticity of Polymer Networks. <i>Macromolecules</i> , 2017, 50, 2556-2564.	4.8	51
40	Responsive Block Copolymer Photonics Triggered by Protein-polyelectrolyte Coacervation. <i>ACS Nano</i> , 2014, 8, 11467-11473.	14.6	50
41	Green fluorescent proteins engineered for cartilage-targeted drug delivery: Insights for transport into highly charged avascular tissues. <i>Biomaterials</i> , 2018, 183, 218-233.	11.4	50
42	Gellan gum microgel-reinforced cell-laden gelatin hydrogels. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2508-2516.	5.8	47
43	Toughening of Thermoresponsive Arrested Networks of Elastin-Like Polypeptides To Engineer Cytocompatible Tissue Scaffolds. <i>Biomacromolecules</i> , 2016, 17, 415-426.	5.4	47
44	Oxidatively Responsive Chain Extension to Entangle Engineered Protein Hydrogels. <i>Macromolecules</i> , 2014, 47, 791-799.	4.8	46
45	Higher Order Liquid Crystalline Structure in Low-Polydispersity DEH-PPV. <i>Macromolecules</i> , 2006, 39, 4469-4479.	4.8	44
46	Arrested Phase Separation of Elastin-like Polypeptide Solutions Yields Stiff, Thermoresponsive Gels. <i>Biomacromolecules</i> , 2015, 16, 3762-3773.	5.4	43
47	Classical Challenges in the Physical Chemistry of Polymer Networks and the Design of New Materials. <i>Accounts of Chemical Research</i> , 2016, 49, 2786-2795.	15.6	43
48	Crystalline Structure in Thin Films of DEH-PPV Homopolymer and PPV-b-PI Rod-coil Block Copolymers. <i>Macromolecules</i> , 2008, 41, 58-66.	4.8	42
49	The Nature of Protein Interactions Governing Globular Protein-polymer Block Copolymer Self-Assembly. <i>Biomacromolecules</i> , 2014, 15, 1248-1258.	5.4	42
50	Initiation of Cyclic Vinylmethylsiloxane Polymerization in a Hot-Filament Chemical Vapor Deposition Process. <i>Langmuir</i> , 2002, 18, 6424-6428.	3.5	41
51	Going Above and Beyond: A Tenfold Gain in the Performance of Luminescence Thermometers Joining Multiparametric Sensing and Multiple Regression. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100301.	8.7	41
52	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). <i>Thin Solid Films</i> , 2006, 501, 211-215.	1.8	40
53	Effect of polymer chemistry on globular protein-polymer block copolymer self-assembly. <i>Polymer Chemistry</i> , 2014, 5, 4884-4895.	3.9	40
54	Topological Effects on Globular Protein-ELP Fusion Block Copolymer Self-Assembly. <i>Advanced Functional Materials</i> , 2015, 25, 729-738.	14.9	40

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55	Artificially Engineered Protein Hydrogels Adapted from the Nucleoporin Nsp1 for Selective Biomolecular Transport. <i>Advanced Materials</i> , 2015, 27, 4207-4212.	21.0	38
56	Long-Range Ordering of Symmetric Block Copolymer Domains by Chaining of Superparamagnetic Nanoparticles in External Magnetic Fields. <i>Macromolecules</i> , 2012, 45, 9373-9382.	4.8	37
57	Biosynthesis of poly(glycolate-co-lactate-co-3-hydroxybutyrate) from glucose by metabolically engineered <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2016, 35, 1-8.	7.0	37
58	Mechanism Dictates Mechanics: A Molecular Substituent Effect in the Macroscopic Fracture of a Covalent Polymer Network. <i>Journal of the American Chemical Society</i> , 2021, 143, 3714-3718.	13.7	37
59	Nanopatterned Protein Films Directed by Ionic Complexation with Water-Soluble Diblock Copolymers. <i>Macromolecules</i> , 2012, 45, 4572-4580.	4.8	36
60	Highly Active Biocatalytic Coatings from Protein-Polymer Diblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14660-14669.	8.0	35
61	Effect of Protein Surface Charge Distribution on Protein-Polyelectrolyte Complexation. <i>Biomacromolecules</i> , 2020, 21, 3026-3037.	5.4	35
62	Site-specific conjugation of RAFT polymers to proteins via expressed protein ligation. <i>Chemical Communications</i> , 2013, 49, 2566.	4.1	34
63	Structure and mechanical response of protein hydrogels reinforced by block copolymer self-assembly. <i>Soft Matter</i> , 2013, 9, 6814.	2.7	34
64	Counting loops in sidechain-crosslinked polymers from elastic solids to single-chain nanoparticles. <i>Chemical Science</i> , 2019, 10, 5332-5337.	7.4	33
65	Celebrating <i>Soft Matter</i> 's 10th Anniversary: Chain configuration and rate-dependent mechanical properties in transient networks. <i>Soft Matter</i> , 2015, 11, 2085-2096.	2.7	32
66	Physics of engineered protein hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 587-601.	2.1	31
67	Three-Dimensional Ordered Antibody Arrays Through Self-Assembly of Antibody-Polymer Conjugates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1273-1277.	13.8	31
68	A Molecular Explanation for Anomalous Diffusion in Supramolecular Polymer Networks. <i>Macromolecules</i> , 2018, 51, 2517-2525.	4.8	31
69	High-velocity micro-particle impact on gelatin and synthetic hydrogel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 71-76.	3.1	31
70	Domain Size Control in Self-Assembling Rod-Coil Block Copolymer and Homopolymer Blends. <i>Macromolecules</i> , 2007, 40, 3320-3327.	4.8	30
71	Defects, Solvent Quality, and Photonic Response in Lamellar Block Copolymer Gels. <i>Macromolecules</i> , 2014, 47, 1130-1136.	4.8	30
72	Fracture of Polymer Networks Containing Topological Defects. <i>Macromolecules</i> , 2020, 53, 7346-7355.	4.8	29

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73	Coil fraction-dependent phase behaviour of a model globular proteinâ€“polymer diblock copolymer. <i>Soft Matter</i> , 2014, 10, 3093-3102.	2.7	28
74	Enhanced activity and stability of organophosphorus hydrolase via interaction with an amphiphilic polymer. <i>Chemical Communications</i> , 2014, 50, 5345.	4.1	28
75	The Effect of Protein Electrostatic Interactions on Globular Proteinâ€“Polymer Block Copolymer Self-Assembly. <i>Biomacromolecules</i> , 2016, 17, 2820-2829.	5.4	27
76	Nucleopore-Inspired Polymer Hydrogels for Selective Biomolecular Transport. <i>Biomacromolecules</i> , 2018, 19, 3905-3916.	5.4	27
77	Complex Coacervate Core Micelles for the Dispersion and Stabilization of Organophosphate Hydrolase in Organic Solvents. <i>Langmuir</i> , 2016, 32, 13367-13376.	3.5	26
78	Preparation and Characterization of Whey Protein-Based Polymers Produced from Residual Dairy Streams. <i>Polymers</i> , 2019, 11, 722.	4.5	26
79	Thermoresponsive and Mechanical Properties of Poly(<sc>l</sc>-proline) Gels. <i>Biomacromolecules</i> , 2016, 17, 399-406.	5.4	25
80	Polymethacrylamide and Carbon Composites that Grow, Strengthen, and Selfâ€“Repair using Ambient Carbon Dioxide Fixation. <i>Advanced Materials</i> , 2018, 30, e1804037.	21.0	25
81	Effect of ELP Sequence and Fusion Protein Design on Concentrated Solution Self-Assembly. <i>Biomacromolecules</i> , 2016, 17, 928-934.	5.4	24
82	Cononsolvency of Elastin-like Polypeptides in Water/Alcohol Solutions. <i>Biomacromolecules</i> , 2019, 20, 2167-2173.	5.4	24
83	Selfâ€“Assembly of Globularâ€“Proteinâ€“Containing Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1659-1668.	2.2	23
84	Catalytic Biosensors from Complex Coacervate Core Micelle (C3M) Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32354-32365.	8.0	23
85	Self-assembly of protein-zwitterionic polymer bioconjugates into nanostructured materials. <i>Polymer Chemistry</i> , 2016, 7, 2410-2418.	3.9	22
86	End Block Design Modulates the Assembly and Mechanics of Thermoresponsive, Dual-Associative Protein Hydrogels. <i>Macromolecules</i> , 2015, 48, 1832-1842.	4.8	21
87	Material properties of the cyanobacterial reserve polymer multi-l-arginyl-poly-l-aspartate (cyanophycin). <i>Polymer</i> , 2017, 109, 238-245.	3.8	21
88	Elastin-like Polypeptide (ELP) Charge Influences Self-Assembly of ELPâ€“mCherry Fusion Proteins. <i>Biomacromolecules</i> , 2018, 19, 2517-2525.	5.4	21
89	Systemically Administered Hemostatic Nanoparticles for Identification and Treatment of Internal Bleeding. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2563-2576.	5.2	21
90	Near-surface and internal lamellar structure and orientation in thin films of rodâ€“coil block copolymers. <i>Soft Matter</i> , 2009, 5, 182-192.	2.7	20

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91	Engineering materials from proteins. <i>AIChE Journal</i> , 2013, 59, 3558-3568.	3.6	20
92	Single-Event Spectroscopy and Unravelling Kinetics of Covalent Domains Based on Cyclobutane Mechanophores. <i>Journal of the American Chemical Society</i> , 2021, 143, 5269-5276.	13.7	20
93	Random Forest Predictor for Diblock Copolymer Phase Behavior. <i>ACS Macro Letters</i> , 2021, 10, 1339-1345.	4.8	20
94	Peptide Domains as Reinforcement in Protein-Based Elastomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8568-8578.	6.7	19
95	A review of treatments for non-compressible torso hemorrhage (NCTH) and internal bleeding. <i>Biomaterials</i> , 2022, 283, 121432.	11.4	19
96	Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. <i>Polymers</i> , 2020, 12, 847.	4.5	18
97	Adding the Effect of Topological Defects to the Flory–Rehner and Bray–Merrill Swelling Theories. <i>ACS Macro Letters</i> , 2021, 10, 531-537.	4.8	18
98	Effect of Small Molecule Osmolytes on the Self-Assembly and Functionality of Globular Protein–Polymer Diblock Copolymers. <i>Biomacromolecules</i> , 2013, 14, 3064-3072.	5.4	17
99	Reply to Stadler: Combining network disassembly spectrometry with rheology/spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1973.	7.1	17
100	Protonation-Induced Microphase Separation in Thin Films of a Polyelectrolyte-Hydrophilic Diblock Copolymer. <i>ACS Macro Letters</i> , 2014, 3, 410-414.	4.8	17
101	Improved Ordering in Low Molecular Weight Protein–Polymer Conjugates Through Oligomerization of the Protein Block. <i>Biomacromolecules</i> , 2018, 19, 3814-3824.	5.4	17
102	Predicting Protein–Polymer Block Copolymer Self-Assembly from Protein Properties. <i>Biomacromolecules</i> , 2019, 20, 3713-3723.	5.4	17
103	PolyDAT: A Generic Data Schema for Polymer Characterization. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1150-1163.	5.4	16
104	Square Grains in Asymmetric Rod–Coil Block Copolymers. <i>Langmuir</i> , 2008, 24, 1604-1607.	3.5	15
105	The shape of protein–polymer conjugates in dilute solution. <i>Journal of Polymer Science Part A</i> , 2016, 54, 292-302.	2.3	15
106	Glycoprotein Mimics with Tunable Functionalization through Global Amino Acid Substitution and Copper Click Chemistry. <i>Bioconjugate Chemistry</i> , 2020, 31, 554-566.	3.6	15
107	Controlling topological entanglement in engineered protein hydrogels with a variety of thiol coupling chemistries. <i>Frontiers in Chemistry</i> , 2014, 2, 23.	3.6	14
108	Protein Purification by Ethanol-Induced Phase Transitions of the Elastin-like Polypeptide (ELP). <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11698-11709.	3.7	14

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109	Experimental Measurement of Coil-Rod-Coil Block Copolymer Tracer Diffusion through Entangled Coil Homopolymers. <i>Macromolecules</i> , 2013, 46, 1651-1658.	4.8	13
110	Protein-Polymer Block Copolymer Thin Films for Highly Sensitive Detection of Small Proteins in Biological Fluids. <i>ACS Sensors</i> , 2019, 4, 2869-2878.	7.8	13
111	Molecular anisotropy and rearrangement as mechanisms of toughness and extensibility in entangled physical gels. <i>Physical Review Materials</i> , 2020, 4, .	2.4	13
112	Liquid Crystalline Orientation of Rod Blocks within Lamellar Nanostructures from Rod-Coil Diblock Copolymers. <i>Macromolecules</i> , 2010, 43, 6531-6534.	4.8	12
113	Diffusion Mechanisms of Entangled Rod-Coil Diblock Copolymers. <i>Macromolecules</i> , 2013, 46, 5694-5701.	4.8	12
114	Self-Assembly of Differently Shaped Protein-Polymer Conjugates through Modification of the Bioconjugation Site. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1268-1274.	3.9	12
115	Kinetic Effects on Self-Assembly and Function of Protein-Polymer Bioconjugates in Thin Films Prepared by Flow Coating. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600449.	3.9	12
116	Engineering Elastin-Like Polypeptide-Poly(ethylene glycol) Multiblock Physical Networks. <i>Biomacromolecules</i> , 2018, 19, 329-339.	5.4	12
117	Effect of sticker clustering on the dynamics of associative networks. <i>Soft Matter</i> , 2021, 17, 8960-8972.	2.7	12
118	Rheological properties and the mechanical signatures of phase transitions in weakly-segregated rod-coil block copolymers. <i>Soft Matter</i> , 2009, 5, 2453.	2.7	11
119	Diffusion of Entangled Rod-Coil Block Copolymers. <i>ACS Macro Letters</i> , 2012, 1, 676-680.	4.8	11
120	Selective biomolecular separation system inspired by the nuclear pore complex and nuclear transport. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 149-158.	3.4	11
121	Anomalous Diffusion in Associative Networks of High-Sticker-Density Polymers. <i>Macromolecules</i> , 2021, 54, 1354-1365.	4.8	11
122	Bridging dynamic regimes of segmental relaxation and center-of-mass diffusion in associative protein hydrogels. <i>Physical Review Research</i> , 2020, 2, .	3.6	11
123	Effect of filament temperature on the chemical vapor deposition of fluorocarbon-organosilicon copolymers. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2176-2185.	2.6	10
124	Peptide Attachment to Vapor Deposited Polymeric Thin Films. <i>Langmuir</i> , 2004, 20, 4774-4776.	3.5	10
125	Topology effects on protein-polymer block copolymer self-assembly. <i>Polymer Chemistry</i> , 2019, 10, 1751-1761.	3.9	10
126	Understanding the molecular origin of shear thinning in associative polymers through quantification of bond dissociation under shear. <i>Physical Review Materials</i> , 2020, 4, .	2.4	10

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127	Magnetic Field Induced Morphological Transitions in Block Copolymer/Superparamagnetic Nanoparticle Composites. <i>ACS Macro Letters</i> , 2013, 2, 655-659.	4.8	9
128	Hydrogels That Actuate Selectively in Response to Organophosphates. <i>Advanced Functional Materials</i> , 2017, 27, 1602784.	14.9	9
129	Structure and rheology of dual-associative protein hydrogels under nonlinear shear flow. <i>Soft Matter</i> , 2017, 13, 8511-8524.	2.7	9
130	Coarse-Grained Simulations for Fracture of Polymer Networks: Stress Versus Topological Inhomogeneities. <i>Macromolecules</i> , 2022, 55, 4-14.	4.8	9
131	Influence of End-Block Dynamics on Deformation Behavior of Thermoresponsive Elastin-like Polypeptide Hydrogels. <i>Macromolecules</i> , 2018, 51, 2951-2960.	4.8	8
132	Multifunctional, High Molecular Weight, Post-Translationally Modified Proteins through Oxidative Cysteine Coupling and Tyrosine Modification. <i>Bioconjugate Chemistry</i> , 2018, 29, 1876-1884.	3.6	8
133	SANS partial structure factor analysis for determining protein-polymer interactions in semidilute solution. <i>Soft Matter</i> , 2019, 15, 7350-7359.	2.7	8
134	SANS quantification of bound water in water-soluble polymers across multiple concentration regimes. <i>Soft Matter</i> , 2021, 17, 5303-5318.	2.7	8
135	Modulating Nanoparticle Size to Understand Factors Affecting Hemostatic Efficacy and Maximize Survival in a Lethal Inferior Vena Cava Injury Model. <i>ACS Nano</i> , 2022, 16, 2494-2510.	14.6	8
136	Self-Assembly of Poly(vinylpyridine)- <i>b</i> -poly(ethylene glycol) methyl ether methacrylate) Diblock Copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1181-1190.	2.1	7
137	Mechanical response of transient telechelic networks with many-part stickers. <i>Journal of Chemical Physics</i> , 2017, 147, 194902.	3.0	7
138	Self-Diffusion and Constraint Release in Isotropic Entangled Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2015, 48, 3121-3129.	4.8	6
139	Extending the Phantom Network Theory to Account for Cooperative Effect of Defects. <i>Macromolecular Symposia</i> , 2019, 385, 1900010.	0.7	6
140	Hydrophobic and Bulk Polymerizable Protein-Based Elastomers Compatibilized with Surfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9103-9111.	6.7	6
141	Coiled-Coil Domains for Self-Assembly and Sensitivity Enhancement of Protein-Polymer Conjugate Biosensors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1114-1123.	4.4	6
142	Development of a Rubber Recycling Process Based on a Single-Component Interfacial Adhesive. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4849-4860.	4.4	6
143	Polymer Domains Control Diffusion in Protein-Polymer Conjugate Biosensors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4481-4492.	4.4	5
144	Secondary structure drives self-assembly in weakly segregated globular protein-rod block copolymers. <i>Polymer Chemistry</i> , 2020, 11, 3032-3045.	3.9	5

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145	Tuning Selective Transport of Biomolecules through Site-Mutated Nucleoporin-like Protein (NLP) Hydrogels. <i>Biomacromolecules</i> , 2021, 22, 289-298.	5.4	5
146	Mechanisms of Self-Diffusion of Linear Associative Polymers Studied by Brownian Dynamics Simulation. <i>Macromolecules</i> , 2021, 54, 11212-11227.	4.8	5
147	Kinetics of Magnetic Field-Induced Orientational Ordering in Block Copolymer/Superparamagnetic Nanoparticle Composites. <i>Macromolecular Rapid Communications</i> , 2014, 35, 2005-2011.	3.9	4
148	Tube Curvature Slows the Motion of Rod-Coil Block Copolymers through Activated Reptation. <i>ACS Macro Letters</i> , 2015, 4, 242-246.	4.8	4
149	Non-isocyanate urethane linkage formation using l-lysine residues as amine sources. <i>Amino Acids</i> , 2019, 51, 1323-1335.	2.7	4
150	EXPANSE: A time-of-flight EXPanded Angle Neutron Spin Echo spectrometer at the Second Target Station of the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	4
151	Scattering from Colloid-Polymer Conjugates with Excluded Volume Effect. <i>ACS Macro Letters</i> , 2015, 4, 165-170.	4.8	3
152	Techno-economic analysis for the production of novel, bio-derived elastomers with modified algal proteins as a reinforcing agent. <i>Algal Research</i> , 2018, 33, 337-344.	4.6	3
153	Synthesis of a Series of Folate-Terminated Dendrimer-PNIPAM Diblock Copolymers: Soft Nanoelements That Self-Assemble into Thermo- and pH-Responsive Spherical Nanocompounds. <i>Macromolecules</i> , 2022, 55, 2924-2939.	4.8	3
154	Hydrogels: Artificially Engineered Protein Hydrogels Adapted from the Nucleoporin Nsp1 for Selective Biomolecular Transport (Adv. Mater. 28/2015). <i>Advanced Materials</i> , 2015, 27, 4244-4244.	21.0	2
155	Hierarchy of relaxation times in supramolecular polymer model networks. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4859-4870.	2.8	2
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