Bradley D Olsen

List of Publications by Year
in descending order

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168 papers	7,470 citations	66250 44 h-index	73587 79 g-index
173 all docs	173 docs citations	173 times ranked	8869 citing authors

#	Article	IF	Citations
1	Efficient Synthesis of Narrowly Dispersed Brush Copolymers and Study of Their Assemblies: The Importance of Side Chain Arrangement. Journal of the American Chemical Society, 2009, 131, 18525-18532.	6.6	441
2	Quantifying the impact of molecular defects on polymer network elasticity. Science, 2016, 353, 1264-1268.	6.0	360
3	The mechanical properties and cytotoxicity of cell-laden double-network hydrogels based on photocrosslinkable gelatin and gellan gum biomacromolecules. Biomaterials, 2012, 33, 3143-3152.	5.7	342
4	Self-assembly of rodâ€"coil block copolymers. Materials Science and Engineering Reports, 2008, 62, 37-66.	14.8	329
5	Shear-Thinning Nanocomposite Hydrogels for the Treatment of Hemorrhage. ACS Nano, 2014, 8, 9833-9842.	7.3	318
6	A Highly Elastic and Rapidly Crosslinkable Elastinâ€Like Polypeptideâ€Based Hydrogel for Biomedical Applications. Advanced Functional Materials, 2015, 25, 4814-4826.	7.8	201
7	Counting primary loops in polymer gels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19119-19124.	3.3	189
8	Yielding Behavior in Injectable Hydrogels from Telechelic Proteins. Macromolecules, 2010, 43, 9094-9099.	2.2	184
9	Structure and Thermodynamics of Weakly Segregated Rodâ^'Coil Block Copolymers. Macromolecules, 2005, 38, 10127-10137.	2.2	163
10	An injectable shear-thinning biomaterial for endovascular embolization. Science Translational Medicine, 2016, 8, 365ra156.	5.8	147
11	Molecular Characterization of Polymer Networks. Chemical Reviews, 2021, 121, 5042-5092.	23.0	140
12	BigSMILES: A Structurally-Based Line Notation for Describing Macromolecules. ACS Central Science, 2019, 5, 1523-1531.	5.3	134
13	Toughening hydrogels through force-triggered chemical reactions that lengthen polymer strands. Science, 2021, 374, 193-196.	6.0	124
14	Reinforcement of Shear Thinning Protein Hydrogels by Responsive Block Copolymer Selfâ€Assembly. Advanced Functional Materials, 2013, 23, 1182-1193.	7.8	118
15	Complex coacervation of supercharged proteins with polyelectrolytes. Soft Matter, 2016, 12, 3570-3581.	1.2	110
16	Anomalous Self-Diffusion and Sticky Rouse Dynamics in Associative Protein Hydrogels. Journal of the American Chemical Society, 2015, 137, 3946-3957.	6.6	107
17	Universalization of the Phase Diagram for a Model Rodâ^'Coil Diblock Copolymer. Macromolecules, 2008, 41, 6809-6817.	2.2	99
18	Nonlamellar Phases in Asymmetric Rodâ^'Coil Block Copolymers at Increased Segregation Strengths. Macromolecules, 2007, 40, 6922-6929.	2.2	98

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19	Synthesis and Application of Protein-Containing Block Copolymers. ACS Macro Letters, 2015, 4, 101-110.	2.3	89
20	Universal Cyclic Topology in Polymer Networks. Physical Review Letters, 2016, 116, 188302.	2.9	89
21	Solid-State Nanostructured Materials from Self-Assembly of a Globular Proteinâ€"Polymer Diblock Copolymer. ACS Nano, 2011, 5, 5697-5707.	7.3	88
22	Hierarchical Nanostructure Control in Rodâ^'Coil Block Copolymers with Magnetic Fields. Nano Letters, 2007, 7, 2742-2746.	4.5	86
23	Loops versus Branch Functionality in Model Click Hydrogels. Macromolecules, 2015, 48, 8980-8988.	2.2	86
24	Phase Transitions in Asymmetric Rodâ^'Coil Block Copolymers. Macromolecules, 2006, 39, 7078-7083.	2.2	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.	6.6	82
26	Relaxation Processes in Supramolecular Metallogels Based on Histidineâ€"Nickel Coordination Bonds. Macromolecules, 2016, 49, 9163-9175.	2.2	73
27	Artificially Engineered Protein Polymers. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 549-575.	3.3	73
28	Topological Structure of Networks Formed from Symmetric Four-Arm Precursors. Macromolecules, 2018, 51, 1224-1231.	2.2	72
29	Antiviral Agents from Multivalent Presentation of Sialyl Oligosaccharides on Brush Polymers. ACS Macro Letters, 2016, 5, 413-418.	2.3	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.	3.3	67
31	Kinetic Monte Carlo Simulation for Quantification of the Gel Point of Polymer Networks. ACS Macro Letters, 2017, 6, 1414-1419.	2.3	64
32	Kinetically Controlled Nanostructure Formation in Self-Assembled Globular Proteinâ€"Polymer Diblock Copolymers. Biomacromolecules, 2012, 13, 2781-2792.	2.6	61
33	Phase transitions in concentrated solution self-assembly of globular proteinâ€"polymer block copolymers. Soft Matter, 2013, 9, 2393.	1.2	60
34	Counting Secondary Loops Is Required for Accurate Prediction of End-Linked Polymer Network Elasticity. ACS Macro Letters, 2018, 7, 244-249.	2.3	60
35	Making thin polymeric materials, including fabrics, microbicidal and also water-repellent. Biotechnology Letters, 2003, 25, 1661-1665.	1.1	59
36	Revisiting the Elasticity Theory for Real Gaussian Phantom Networks. Macromolecules, 2019, 52, 1685-1694.	2.2	57

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37	Thin Film Structure of Symmetric Rodâ˘Coil Block Copolymers. Macromolecules, 2007, 40, 3287-3295.	2.2	56
38	Self-Diffusion of Associating Star-Shaped Polymers. Macromolecules, 2016, 49, 5599-5608.	2.2	55
39	Oddâ€"Even Effect of Junction Functionality on the Topology and Elasticity of Polymer Networks. Macromolecules, 2017, 50, 2556-2564.	2.2	51
40	Responsive Block Copolymer Photonics Triggered by Proteinâ€"Polyelectrolyte Coacervation. ACS Nano, 2014, 8, 11467-11473.	7.3	50
41	Green fluorescent proteins engineered for cartilage-targeted drug delivery: Insights for transport into highly charged avascular tissues. Biomaterials, 2018, 183, 218-233.	5.7	50
42	Gellan gum microgel-reinforced cell-laden gelatin hydrogels. Journal of Materials Chemistry B, 2014, 2, 2508-2516.	2.9	47
43	Toughening of Thermoresponsive Arrested Networks of Elastin-Like Polypeptides To Engineer Cytocompatible Tissue Scaffolds. Biomacromolecules, 2016, 17, 415-426.	2.6	47
44	Oxidatively Responsive Chain Extension to Entangle Engineered Protein Hydrogels. Macromolecules, 2014, 47, 791-799.	2.2	46
45	Higher Order Liquid Crystalline Structure in Low-Polydispersity DEH-PPV. Macromolecules, 2006, 39, 4469-4479.	2.2	44
46	Arrested Phase Separation of Elastin-like Polypeptide Solutions Yields Stiff, Thermoresponsive Gels. Biomacromolecules, 2015, 16, 3762-3773.	2.6	43
47	Classical Challenges in the Physical Chemistry of Polymer Networks and the Design of New Materials. Accounts of Chemical Research, 2016, 49, 2786-2795.	7.6	43
48	Crystalline Structure in Thin Films of DEHâ˘PPV Homopolymer and PPV-b-PI Rodâ˘Coil Block Copolymers. Macromolecules, 2008, 41, 58-66.	2.2	42
49	The Nature of Protein Interactions Governing Globular Proteinâ€"Polymer Block Copolymer Self-Assembly. Biomacromolecules, 2014, 15, 1248-1258.	2.6	42
50	Initiation of Cyclic Vinylmethylsiloxane Polymerization in a Hot-Filament Chemical Vapor Deposition Process. Langmuir, 2002, 18, 6424-6428.	1.6	41
51	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.	4.4	41
52	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). Thin Solid Films, 2006, 501, 211-215.	0.8	40
53	Effect of polymer chemistry on globular proteinâ€"polymer block copolymer self-assembly. Polymer Chemistry, 2014, 5, 4884-4895.	1.9	40
54	Topological Effects on Globular Proteinâ€ELP Fusion Block Copolymer Selfâ€Assembly. Advanced Functional Materials, 2015, 25, 729-738.	7.8	40

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55	Artificially Engineered Protein Hydrogels Adapted from the Nucleoporin Nsp1 for Selective Biomolecular Transport. Advanced Materials, 2015, 27, 4207-4212.	11.1	38
56	Long-Range Ordering of Symmetric Block Copolymer Domains by Chaining of Superparamagnetic Nanoparticles in External Magnetic Fields. Macromolecules, 2012, 45, 9373-9382.	2.2	37
57	Biosynthesis of poly(glycolate-co-lactate-co-3-hydroxybutyrate) from glucose by metabolically engineered Escherichia coli. Metabolic Engineering, 2016, 35, 1-8.	3.6	37
58	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.	6.6	37
59	Nanopatterned Protein Films Directed by Ionic Complexation with Water-Soluble Diblock Copolymers. Macromolecules, 2012, 45, 4572-4580.	2.2	36
60	Highly Active Biocatalytic Coatings from Proteinâ€“Polymer Diblock Copolymers. ACS Applied Materials & Interfaces, 2015, 7, 14660-14669.	4.0	35
61	Effect of Protein Surface Charge Distribution on Proteinâ€“Polyelectrolyte Complexation. Biomacromolecules, 2020, 21, 3026-3037.	2.6	35
62	Site-specific conjugation of RAFT polymers to proteins via expressed protein ligation. Chemical Communications, 2013, 49, 2566.	2.2	34
63	Structure and mechanical response of protein hydrogels reinforced by block copolymer self-assembly. Soft Matter, 2013, 9, 6814.	1.2	34
64	Counting loops in sidechain-crosslinked polymers from elastic solids to single-chain nanoparticles. Chemical Science, 2019, 10, 5332-5337.	3.7	33
65	Celebrating Soft Matter's 10th Anniversary: Chain configuration and rate-dependent mechanical properties in transient networks. Soft Matter, 2015, 11, 2085-2096.	1.2	32
66	Physics of engineered protein hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 587-601.	2.4	31
67	Threeâ€Dimensional Ordered Antibody Arrays Through Selfâ€Assembly of Antibodyâ€“Polymer Conjugates. Angewandte Chemie - International Edition, 2017, 56, 1273-1277.	7.2	31
68	A Molecular Explanation for Anomalous Diffusion in Supramolecular Polymer Networks. Macromolecules, 2018, 51, 2517-2525.	2.2	31
69	High-velocity micro-particle impact on gelatin and synthetic hydrogel. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 71-76.	1.5	31
70	Domain Size Control in Self-Assembling Rodâ^'Coil Block Copolymer and Homopolymer Blends. Macromolecules, 2007, 40, 3320-3327.	2.2	30
71	Defects, Solvent Quality, and Photonic Response in Lamellar Block Copolymer Gels. Macromolecules, 2014, 47, 1130-1136.	2.2	30
72	Fracture of Polymer Networks Containing Topological Defects. Macromolecules, 2020, 53, 7346-7355.	2.2	29

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73	Coil fraction-dependent phase behaviour of a model globular proteinâ€“polymer diblock copolymer. Soft Matter, 2014, 10, 3093-3102.	1.2	28
74	Enhanced activity and stability of organophosphorus hydrolase via interaction with an amphiphilic polymer. Chemical Communications, 2014, 50, 5345.	2.2	28
75	The Effect of Protein Electrostatic Interactions on Globular Proteinâ€“Polymer Block Copolymer Self-Assembly. Biomacromolecules, 2016, 17, 2820-2829.	2.6	27
76	Nucleopore-Inspired Polymer Hydrogels for Selective Biomolecular Transport. Biomacromolecules, 2018, 19, 3905-3916.	2.6	27
77	Complex Coacervate Core Micelles for the Dispersion and Stabilization of Organophosphate Hydrolase in Organic Solvents. Langmuir, 2016, 32, 13367-13376.	1.6	26
78	Preparation and Characterization of Whey Protein-Based Polymers Produced from Residual Dairy Streams. Polymers, 2019, 11, 722.	2.0	26
79	Thermoresponsive and Mechanical Properties of Poly(<scp>l</scp>-proline) Gels. Biomacromolecules, 2016, 17, 399-406.	2.6	25
80	Polymethacrylamide and Carbon Composites that Grow, Strengthen, and Selfâ€Repair using Ambient Carbon Dioxide Fixation. Advanced Materials, 2018, 30, e1804037.	11.1	25
81	Effect of ELP Sequence and Fusion Protein Design on Concentrated Solution Self-Assembly. Biomacromolecules, 2016, 17, 928-934.	2.6	24
82	Cononsolvency of Elastin-like Polypeptides in Water/Alcohol Solutions. Biomacromolecules, 2019, 20, 2167-2173.	2.6	24
83	Selfâ€Assembly of Globularâ€Proteinâ€Containing Block Copolymers. Macromolecular Chemistry and Physics, 2013, 214, 1659-1668.	1.1	23
84	Catalytic Biosensors from Complex Coacervate Core Micelle (C3M) Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 32354-32365.	4.0	23
85	Self-assembly of protein-zwitterionic polymer bioconjugates into nanostructured materials. Polymer Chemistry, 2016, 7, 2410-2418.	1.9	22
86	End Block Design Modulates the Assembly and Mechanics of Thermoresponsive, Dual-Associative Protein Hydrogels. Macromolecules, 2015, 48, 1832-1842.	2.2	21
87	Material properties of the cyanobacterial reserve polymer multi-l-arginyl-poly-l-aspartate (cyanophycin). Polymer, 2017, 109, 238-245.	1.8	21
88	Elastin-like Polypeptide (ELP) Charge Influences Self-Assembly of ELPâ€“mCherry Fusion Proteins. Biomacromolecules, 2018, 19, 2517-2525.	2.6	21
89	Systemically Administered Hemostatic Nanoparticles for Identification and Treatment of Internal Bleeding. ACS Biomaterials Science and Engineering, 2019, 5, 2563-2576.	2.6	21
90	Near-surface and internal lamellar structure and orientation in thin films of rodâ€“coil block copolymers. Soft Matter, 2009, 5, 182-192.	1.2	20

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91	Engineering materials from proteins. AICHE Journal, 2013, 59, 3558-3568.	1.8	20
92	Single-Event Spectroscopy and Unravelling Kinetics of Covalent Domains Based on Cyclobutane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5269-5276.	6.6	20
93	Random Forest Predictor for Diblock Copolymer Phase Behavior. ACS Macro Letters, 2021, 10, 1339-1345.	2.3	20
94	Peptide Domains as Reinforcement in Protein-Based Elastomers. ACS Sustainable Chemistry and Engineering, 2017, 5, 8568-8578.	3.2	19
95	A review of treatments for non-compressible torso hemorrhage (NCTH) and internal bleeding. Biomaterials, 2022, 283, 121432.	5.7	19
96	Techno-Economic Assessment of Whey Protein-Based Plastic Production from a Co-Polymerization Process. Polymers, 2020, 12, 847.	2.0	18
97	Adding the Effect of Topological Defects to the Floryâ€"Rehner and Brayâ€"Merrill Swelling Theories. ACS Macro Letters, 2021, 10, 531-537.	2.3	18
98	Effect of Small Molecule Osmolytes on the Self-Assembly and Functionality of Globular Proteinâ€"Polymer Diblock Copolymers. Biomacromolecules, 2013, 14, 3064-3072.	2.6	17
99	Reply to Stadler: Combining network disassembly spectrometry with rheology/spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1973.	3.3	17
100	Protonation-Induced Microphase Separation in Thin Films of a Polyelectrolyte-Hydrophilic Diblock Copolymer. ACS Macro Letters, 2014, 3, 410-414.	2.3	17
101	Improved Ordering in Low Molecular Weight Proteinâ€"Polymer Conjugates Through Oligomerization of the Protein Block. Biomacromolecules, 2018, 19, 3814-3824.	2.6	17
102	Predicting Proteinâ€"Polymer Block Copolymer Self-Assembly from Protein Properties. Biomacromolecules, 2019, 20, 3713-3723.	2.6	17
103	PolyDAT: A Generic Data Schema for Polymer Characterization. Journal of Chemical Information and Modeling, 2021, 61, 1150-1163.	2.5	16
104	Square Grains in Asymmetric Rodâ^'Coil Block Copolymers. Langmuir, 2008, 24, 1604-1607.	1.6	15
105	The shape of proteinâ€"polymer conjugates in dilute solution. Journal of Polymer Science Part A, 2016, 54, 292-302.	2.5	15
106	Glycoprotein Mimics with Tunable Functionalization through Global Amino Acid Substitution and Copper Click Chemistry. Bioconjugate Chemistry, 2020, 31, 554-566.	1.8	15
107	Controlling topological entanglement in engineered protein hydrogels with a variety of thiol coupling chemistries. Frontiers in Chemistry, 2014, 2, 23.	1.8	14
108	Protein Purification by Ethanol-Induced Phase Transitions of the Elastin-like Polypeptide (ELP). Industrial & Engineering Chemistry Research, 2019, 58, 11698-11709.	1.8	14

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109	Experimental Measurement of Coilâ€"Rodâ€"Coil Block Copolymer Tracer Diffusion through Entangled Coil Homopolymers. Macromolecules, 2013, 46, 1651-1658.	2.2	13
110	Proteinâ€"Polymer Block Copolymer Thin Films for Highly Sensitive Detection of Small Proteins in Biological Fluids. ACS Sensors, 2019, 4, 2869-2878.	4.0	13
111	Molecular anisotropy and rearrangement as mechanisms of toughness and extensibility in entangled physical gels. Physical Review Materials, 2020, 4, .	0.9	13
112	Liquid Crystalline Orientation of Rod Blocks within Lamellar Nanostructures from Rodâˆ'Coil Diblock Copolymers. Macromolecules, 2010, 43, 6531-6534.	2.2	12
113	Diffusion Mechanisms of Entangled Rodâ€"Coil Diblock Copolymers. Macromolecules, 2013, 46, 5694-5701.	2.2	12
114	Selfâ€Assembly of Differently Shaped Proteinâ€"Polymer Conjugates through Modification of the Bioconjugation Site. Macromolecular Rapid Communications, 2016, 37, 1268-1274.	2.0	12
115	Kinetic Effects on Selfâ€Assembly and Function of Proteinâ€"Polymer Bioconjugates in Thin Films Prepared by Flow Coating. Macromolecular Rapid Communications, 2017, 38, 1600449.	2.0	12
116	Engineering Elastin-Like Polypeptide-Poly(ethylene glycol) Multiblock Physical Networks. Biomacromolecules, 2018, 19, 329-339.	2.6	12
117	Effect of sticker clustering on the dynamics of associative networks. Soft Matter, 2021, 17, 8960-8972.	1.2	12
118	Rheological properties and the mechanical signatures of phase transitions in weakly-segregated rod-coil block copolymers. Soft Matter, 2009, 5, 2453.	1.2	11
119	Diffusion of Entangled Rodâ€"Coil Block Copolymers. ACS Macro Letters, 2012, 1, 676-680.	2.3	11
120	Selective biomolecular separation system inspired by the nuclear pore complex and nuclear transport. Molecular Systems Design and Engineering, 2017, 2, 149-158.	1.7	11
121	Anomalous Diffusion in Associative Networks of High-Sticker-Density Polymers. Macromolecules, 2021, 54, 1354-1365.	2.2	11
122	Bridging dynamic regimes of segmental relaxation and center-of-mass diffusion in associative protein hydrogels. Physical Review Research, 2020, 2, .	1.3	11
123	Effect of filament temperature on the chemical vapor deposition of fluorocarbon-organosilicon copolymers. Journal of Applied Polymer Science, 2004, 91, 2176-2185.	1.3	10
124	Peptide Attachment to Vapor Deposited Polymeric Thin Films. Langmuir, 2004, 20, 4774-4776.	1.6	10
125	Topology effects on proteinâ€"polymer block copolymer self-assembly. Polymer Chemistry, 2019, 10, 1751-1761.	1.9	10
126	Understanding the molecular origin of shear thinning in associative polymers through quantification of bond dissociation under shear. Physical Review Materials, 2020, 4, .	0.9	10

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127	Magnetic Field Induced Morphological Transitions in Block Copolymer/Superparamagnetic Nanoparticle Composites. ACS Macro Letters, 2013, 2, 655-659.	2.3	9
128	Hydrogels That Actuate Selectively in Response to Organophosphates. Advanced Functional Materials, 2017, 27, 1602784.	7.8	9
129	Structure and rheology of dual-associative protein hydrogels under nonlinear shear flow. Soft Matter, 2017, 13, 8511-8524.	1.2	9
130	Coarse-Grained Simulations for Fracture of Polymer Networks: Stress Versus Topological Inhomogeneities. Macromolecules, 2022, 55, 4-14.	2.2	9
131	Influence of End-Block Dynamics on Deformation Behavior of Thermoresponsive Elastin-like Polypeptide Hydrogels. Macromolecules, 2018, 51, 2951-2960.	2.2	8
132	Multifunctional, High Molecular Weight, Post-Translationally Modified Proteins through Oxidative Cysteine Coupling and Tyrosine Modification. Bioconjugate Chemistry, 2018, 29, 1876-1884.	1.8	8
133	SANS partial structure factor analysis for determining proteinâ€“polymer interactions in semidilute solution. Soft Matter, 2019, 15, 7350-7359.	1.2	8
134	SANS quantification of bound water in water-soluble polymers across multiple concentration regimes. Soft Matter, 2021, 17, 5303-5318.	1.2	8
135	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.	7.3	8
136	Selfâ€Assembly of Poly(vinylpyridineâ€<i>b</i>â€oligo(ethylene glycol) methyl ether methacrylate) Diblock Copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1181-1190.	2.4	7
137	Mechanical response of transient telechelic networks with many-part stickers. Journal of Chemical Physics, 2017, 147, 194902.	1.2	7
138	Self-Diffusion and Constraint Release in Isotropic Entangled Rodâ€“Coil Block Copolymers. Macromolecules, 2015, 48, 3121-3129.	2.2	6
139	Extending the Phantom Network Theory to Account for Cooperative Effect of Defects. Macromolecular Symposia, 2019, 385, 1900010.	0.4	6
140	Hydrophobic and Bulk Polymerizable Protein-Based Elastomers Compatibilized with Surfactants. ACS Sustainable Chemistry and Engineering, 2019, 7, 9103-9111.	3.2	6
141	Coiled-Coil Domains for Self-Assembly and Sensitivity Enhancement of Proteinâ€“Polymer Conjugate Biosensors. ACS Applied Polymer Materials, 2020, 2, 1114-1123.	2.0	6
142	Development of a Rubber Recycling Process Based on a Single-Component Interfacial Adhesive. ACS Applied Polymer Materials, 2021, 3, 4849-4860.	2.0	6
143	Polymer Domains Control Diffusion in Proteinâ€“Polymer Conjugate Biosensors. ACS Applied Polymer Materials, 2020, 2, 4481-4492.	2.0	5
144	Secondary structure drives self-assembly in weakly segregated globular proteinâ€“rod block copolymers. Polymer Chemistry, 2020, 11, 3032-3045.	1.9	5

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145	Tuning Selective Transport of Biomolecules through Site-Mutated Nucleoporin-like Protein (NLP) Hydrogels. Biomacromolecules, 2021, 22, 289-298.	2.6	5
146	Mechanisms of Self-Diffusion of Linear Associative Polymers Studied by Brownian Dynamics Simulation. Macromolecules, 2021, 54, 11212-11227.	2.2	5
147	Kinetics of Magnetic Fieldâ€Induced Orientational Ordering in Block Copolymer/Superparamagnetic Nanoparticle Composites. Macromolecular Rapid Communications, 2014, 35, 2005-2011.	2.0	4
148	Tube Curvature Slows the Motion of Rodâ€"Coil Block Copolymers through Activated Reptation. ACS Macro Letters, 2015, 4, 242-246.	2.3	4
149	Non-isocyanate urethane linkage formation using l-lysine residues as amine sources. Amino Acids, 2019, 51, 1323-1335.	1.2	4
150	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, .	0.6	4
151	Scattering from Colloidâ€"Polymer Conjugates with Excluded Volume Effect. ACS Macro Letters, 2015, 4, 165-170.	2.3	3
152	Techno-economic analysis for the production of novel, bio-derived elastomers with modified algal proteins as a reinforcing agent. Algal Research, 2018, 33, 337-344.	2.4	3
153	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.	2.2	3
154	Hydrogels: Artificially Engineered Protein Hydrogels Adapted from the Nucleoporin Nsp1 for Selective Biomolecular Transport (Adv. Mater. 28/2015). Advanced Materials, 2015, 27, 4244-4244.	11.1	2
155	Hierarchy of relaxation times in supramolecular polymer model networks. Physical Chemistry Chemical Physics, 2022, 24, 4859-4870.	1.3	2
156	Self-Diffusion in a Weakly Entangled Associative Network. Macromolecules, 2022, 55, 6056-6066.	2.2	2
157	Selfâ€Assembly: Reinforcement of Shear Thinning Protein Hydrogels by Responsive Block Copolymer Selfâ€Assembly (Adv. Funct. Mater. 9/2013). Advanced Functional Materials, 2013, 23, 1224-1224.	7.8	1
158	Crossover between activated reptation and arm retraction mechanisms in entangled rod-coil block copolymers. Journal of Chemical Physics, 2015, 143, 184904.	1.2	1
159	Injectable Hydrogels by Physical Crosslinking. , 2016, , 97-154.		1
160	Young Talents in Polymer Science. Macromolecular Chemistry and Physics, 2016, 217, 124-125.	1.1	1
161	Threeâ€Dimensional Ordered Antibody Arrays Through Selfâ€Assembly of Antibodyâ€"Polymer Conjugates. Angewandte Chemie, 2017, 129, 1293-1297.	1.6	1
162	Techno-economic Analysis for the Production of Novel Bio-derived Elastomers with Modified Algal Proteins as a Reinforcing Agent. , 2019, , 639-654.		1

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163	Protein Nanopatterning. Springer Series in Biomaterials Science and Engineering, 2016, , 445-480.	0.7	1
164	Tuning compatibility and water uptake by protein charge modification in melt-polymerizable protein-based thermosets. Materials Advances, 0, , .	2.6	1
165	Strengthening and Toughening of Protein-Based Thermosets via Intermolecular Self-Assembly. Biomacromolecules, 0, , .	2.6	1
166	Multiscale Modeling and Characterization of Radical-Initiated Modification of Molten Polyolefins. Macromolecules, 0, , .	2.2	1
167	Rising Stars in Polymer Science. Macromolecular Chemistry and Physics, 2016, 217, 317-318.	1.1	0
168	Catalyst: Advancing Polymer Science by Revisiting Known Plastics. CheM, 2018, 4, 927-929.	5.8	0