Stuart J Rowan

List of Publications by Year
in descending order

301 papers	22,137 citations	13068 68 h-index	8370 147 g-index
315 all docs	315 docs citations	315 times ranked	17002 citing authors

#	Article	IF	Citations
1	Dynamic Covalent Chemistry. Angewandte Chemie - International Edition, 2002, 41, 898-952.	7.2	2,245
2	Optically healable supramolecular polymers. Nature, 2011, 472, 334-337.	13.7	1,568
3	Using the dynamic bond to access macroscopically responsive structurally dynamic polymers. Nature Materials, 2011, 10, 14-27.	13.3	1,394
4	Stimuli-Responsive Polymer Nanocomposites Inspired by the Sea Cucumber Dermis. Science, 2008, 319, 1370-1374.	6.0	881
5	A Healable Supramolecular Polymer Blend Based on Aromatic Ï€â^'Ï€ Stacking and Hydrogen-Bonding Interactions. Journal of the American Chemical Society, 2010, 132, 12051-12058.	6.6	779
6	Multistimuli, Multiresponsive Metallo-Supramolecular Polymers. Journal of the American Chemical Society, 2003, 125, 13922-13923.	6.6	673
7	Supramolecular gels formed from multi-component low molecular weight species. Chemical Society Reviews, 2012, 41, 6089.	18.7	624
8	Nucleobases as supramolecular motifs. Chemical Society Reviews, 2005, 34, 9.	18.7	557
9	Understanding the Mechanism of Gelation and Stimuli-Responsive Nature of a Class of Metallo-Supramolecular Gels. Journal of the American Chemical Society, 2006, 128, 11663-11672.	6.6	508
10	A self-repairing, supramolecular polymer system: healability as a consequence of donorâ€"acceptor Ï€â€"Ï€ stacking interactions. Chemical Communications, 2009, , 6717.	2.2	475
11	Thermo-, Photo-, and Chemo-Responsive Shape-Memory Properties from Photo-Cross-Linked Metallo-Supramolecular Polymers. Journal of the American Chemical Society, 2011, 133, 12866-12874.	6.6	451
12	A versatile approach for the processing of polymer nanocomposites with self-assembled nanofibre templates. Nature Nanotechnology, 2007, 2, 765-769.	15.6	393
13	Inherently Photohealable and Thermal Shape-Memory Polydisulfide Networks. ACS Macro Letters, 2013, 2, 694-699.	2.3	349
14	Supramolecular Polymerizations and Main-Chain Supramolecular Polymers. Macromolecules, 2009, 42, 6823-6835.	2.2	315
15	High-Strength, Healable, Supramolecular Polymer Nanocomposites. Journal of the American Chemical Society, 2012, 134, 5362-5368.	6.6	303
16	Bioinspired Mechanically Adaptive Polymer Nanocomposites with Water-Activated Shape-Memory Effect. Macromolecules, 2011, 44, 6827-6835.	2.2	301
17	Utilization of a Combination of Weak Hydrogen-Bonding Interactions and Phase Segregation to Yield Highly Thermosensitive Supramolecular Polymers. Journal of the American Chemical Society, 2005, 127, 18202-18211.	6.6	266
18	Fluorescent Sensors for the Detection of Chemical Warfare Agents. Chemistry - A European Journal, 2007, 13, 7828-7836.	1.7	242

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19	pH-Responsive Cellulose Nanocrystal Gels and Nanocomposites. ACS Macro Letters, 2012, 1, 1001-1006.	2.3	241
20	Polymer Nanocomposites with Nanowhiskers Isolated from Microcrystalline Cellulose. Biomacromolecules, 2009, 10, 712-716.	2.6	235
21	A Supramolecular Polymer Based on Tweezer-Type Ï€â^'Ï€ Stacking Interactions: Molecular Design for Healability and Enhanced Toughness. Chemistry of Materials, 2011, 23, 6-8.	3.2	222
22	Mechanically-compliant intracortical implants reduce the neuroinflammatory response. Journal of Neural Engineering, 2014, 11, 056014.	1.8	219
23	Metal/Ligand-Induced Formation of Metallo-Supramolecular Polymers. Macromolecules, 2005, 38, 5060-5068.	2.2	200
24	Fluorescent Organometallic Sensors for the Detection of Chemical-Warfare-Agent Mimics. Angewandte Chemie - International Edition, 2006, 45, 5825-5829.	7.2	199
25	Biomimetic mechanically adaptive nanocomposites. Progress in Polymer Science, 2010, 35, 212-222.	11.8	196
26	Poly[<i>n</i>]catenanes: Synthesis of molecular interlocked chains. Science, 2017, 358, 1434-1439.	6.0	196
27	Effect of Sterics and Degree of Cross-Linking on the Mechanical Properties of Dynamic Poly(alkylureaâ€"urethane) Networks. Macromolecules, 2017, 50, 5051-5060.	2.2	186
28	Natural Biopolymers: Novel Templates for the Synthesis of Nanostructures. Langmuir, 2010, 26, 8497-8502.	1.6	167
29	Automated Recognition, Sorting, and Covalent Self-Assembly by Predisposed Building Blocks in a Mixture. Journal of the American Chemical Society, 1997, 119, 2578-2579.	6.6	164
30	Optically healable polymers. Chemical Society Reviews, 2013, 42, 7278.	18.7	162
31	Bio-inspired mechanically-adaptive nanocomposites derived from cotton cellulose whiskers. Journal of Materials Chemistry, 2010, 20, 180-186.	6.7	156
32	Metalâ€"ligand induced supramolecular polymerization: A route to responsive materials. Faraday Discussions, 2005, 128, 43-53.	1.6	154
33	Stimuli-Responsive Reversible Two-Level Adhesion from a Structurally Dynamic Shape-Memory Polymer. ACS Applied Materials & Interfaces, 2016, 8, 11041-11049.	4.0	148
34	Stimuli-Responsive Mechanically Adaptive Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2010, 2, 165-174.	4.0	146
35	Water-Triggered Modulus Changes of Cellulose Nanofiber Nanocomposites with Hydrophobic Polymer Matrices. Macromolecules, 2012, 45, 4707-4715.	2.2	142
36	Development, processing and applications of bio-sourced cellulose nanocrystal composites. Progress in Polymer Science, 2020, 103, 101221.	11.8	138

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37	Material properties and applications of mechanically interlocked polymers. Nature Reviews Materials, 2021, 6, 508-530.	23.3	135
38	Water-Responsive Mechanically Adaptive Nanocomposites Based on Styreneâ€"Butadiene Rubber and Cellulose Nanocrystalsâ€"Processing Matters. ACS Applied Materials & Interfaces, 2014, 6, 967-976.	4.0	131
39	Stimuli-responsive, mechanically-adaptive polymer nanocomposites. Journal of Materials Chemistry, 2011, 21, 2812-2822.	6.7	127
40	â€˜Livingâ€™ macrolactonisation: thermodynamically-controlled cyclisation and interconversion of oligocholates. Chemical Communications, 1996, , 319-320.	2.2	126
41	Stimuli-responsive europium-containing metallo-supramolecular polymers. Journal of Materials Chemistry, 2010, 20, 145-151.	6.7	121
42	Rotaxane Formation under Thermodynamic Control. Organic Letters, 1999, 1, 1363-1366.	2.4	119
43	Stress Transfer in Cellulose Nanowhisker Compositesâ€"Influence of Whisker Aspect Ratio and Surface Charge. Biomacromolecules, 2011, 12, 1363-1369.	2.6	117
44	<i>50th Anniversary Perspective</i>: Solid-State Multistimuli, Multiresponsive Polymeric Materials. Macromolecules, 2017, 50, 8845-8870.	2.2	117
45	Rheological Behavior of Shear-Responsive Metallo-Supramolecular Gels. Macromolecules, 2004, 37, 3529-3531.	2.2	113
46	Bioinspired Water-Enhanced Mechanical Gradient Nanocomposite Films That Mimic the Architecture and Properties of the Squid Beak. Journal of the American Chemical Society, 2013, 135, 5167-5174.	6.6	112
47	Dynamic Hemicarcerands and Hemicarceplexes. Organic Letters, 2000, 2, 2411-2414.	2.4	111
48	Toward Daisy Chain Polymers:â€‰ â€œWittig Exchangeâ€•of Stoppers in [2]Rotaxane Monomers. Organic Letters, 2000, 2, 759-762.	2.4	109
49	Stress-Transfer in Anisotropic and Environmentally Adaptive Cellulose Whisker Nanocomposites. Biomacromolecules, 2010, 11, 762-768.	2.6	106
50	Reinforcement of Optically Healable Supramolecular Polymers with Cellulose Nanocrystals. Macromolecules, 2014, 47, 152-160.	2.2	102
51	Precision Molecular Grafting:Â Exchanging Surrogate Stoppers in [2]Rotaxanes. Journal of the American Chemical Society, 2000, 122, 164-165.	6.6	100
52	Control of Gel Morphology and Properties of a Class of Metallo-Supramolecular Polymers by Good/Poor Solvent Environments. Macromolecules, 2009, 42, 236-246.	2.2	98
53	Synthesis and Properties of Metallo-Supramolecular Poly(p-phenylene ethynylene)s. Macromolecules, 2006, 39, 651-657.	2.2	95
54	Synthesis and optical properties of metallo-supramolecular polymers. Chemical Communications, 2005, , 319.	2.2	91

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55	Mechanically adaptive nanocomposites for neural interfacing. MRS Bulletin, 2012, 37, 581-589.	1.7	91
56	Triphenylphosphonium-Stoppered [2]Rotaxanes. Organic Letters, 1999, 1, 129-132.	2.4	88
57	Thermodynamic Synthesis of Rotaxanes by Imine Exchange. Organic Letters, 1999, 1, 1913-1916.	2.4	86
58	Metallo-, Thermo-, and Photoresponsive Shape Memory and Actuating Liquid Crystalline Elastomers. Macromolecules, 2015, 48, 3239-3246.	2.2	86
59	Tailoring the Properties of Guanosine-Based Supramolecular Hydrogels. Langmuir, 2009, 25, 8833-8840.	1.6	82
60	Trapping Dynamic Disulfide Bonds in the Hard Segments of Thermoplastic Polyurethane Elastomers. Macromolecular Chemistry and Physics, 2017, 218, 1600320.	1.1	80
61	Miscanthus Giganteus: A commercially viable sustainable source of cellulose nanocrystals. Carbohydrate Polymers, 2017, 155, 230-241.	5.1	80
62	Metallo-Supramolecular Polymerization: A Route to Easy-To-Process Organic/Inorganic Hybrid Materials. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 17, 91-103.	1.9	78
63	Vapochromic and mechanochromic films from square-planar platinum complexes in polymethacrylates. Journal of Materials Chemistry, 2012, 22, 14196.	6.7	78
64	Nanoemulsions and Nanolatexes Stabilized by Hydrophobically Functionalized Cellulose Nanocrystals. Macromolecules, 2017, 50, 6032-6042.	2.2	75
65	Toward potential supramolecular tissue engineering scaffolds based on guanosine derivatives. Chemical Science, 2012, 3, 564-572.	3.7	74
66	Polyimide Cellulose Nanocrystal Composite Aerogels. Macromolecules, 2016, 49, 1692-1703.	2.2	73
67	Macrocycles Derived from Cinchona Alkaloids:â€‰ A Thermodynamic vs Kinetic Study. Journal of Organic Chemistry, 1998, 63, 1536-1546.	1.7	72
68	Influence of Metal Ion and Polymer Core on the Melt Rheology of Metallosupramolecular Films. Macromolecules, 2012, 45, 473-480.	2.2	72
69	Structure-Directed Synthesis under Thermodynamic Control: Macrocyclic Trimers from Cinchona Alkaloids. Angewandte Chemie International Edition in English, 1996, 35, 2143-2145.	4.4	69
70	Dynamic Covalent Chemistry. Angewandte Chemie - International Edition, 2002, 41, 1460-1460.	7.2	69
71	Structural origin of the thixotropic behavior of a class of metallosupramolecular gels. Tetrahedron, 2007, 63, 7419-7431.	1.0	63
72	Post-Assembly Processing of [2]Rotaxanes. Chemistry - A European Journal, 2002, 8, 5170-5183.	1.7	60

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73	Nucleobase-induced supramolecular polymerization in the solid state. Journal of Polymer Science Part A, 2003, 41, 3589-3596.	2.5	60
74	Topological Effects in Isolated Poly[<i>n</i>]catenanes: Molecular Dynamics Simulations and Rouse Mode Analysis. ACS Macro Letters, 2018, 7, 938-943.	2.3	60
75	Biomimetic Reversible Heat-Stiffening Polymer Nanocomposites. ACS Central Science, 2017, 3, 886-894.	5.3	58
76	Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. Acta Biomaterialia, 2016, 29, 81-93.	4.1	57
77	A Rotaxane-Like Complex with Controlled-Release Characteristics. Organic Letters, 2000, 2, 3631-3634.	2.4	56
78	Decoupling Optical Properties in Metallo-Supramolecular Poly(<i>p</i>-phenylene ethynylene)s. Macromolecules, 2008, 41, 2157-2163.	2.2	55
79	Liquid-Crystalline Supramolecular Polymers Formed through Complementary Nucleobase-Pair Interactions. Chemistry - A European Journal, 2006, 12, 446-456.	1.7	52
80	Synthesis and Properties of Metallo-Supramolecular Poly(p-xylylene)s. Macromolecules, 2006, 39, 4069-4075.	2.2	49
81	Strong, Rebondable, Dynamic Cross-Linked Cellulose Nanocrystal Polymer Nanocomposite Adhesives. ACS Applied Materials & Interfaces, 2018, 10, 30723-30731.	4.0	49
82	An hermaphroditic [c2]daisy chain. Chemical Communications, 2002, , 2948-2949.	2.2	48
83	Open-to-Air RAFT Polymerization in Complex Solvents: From Whisky to Fermentation Broth. ACS Macro Letters, 2018, 7, 406-411.	2.3	48
84	Effects of Shape on Thermodynamic Cyclizations of Cinchona Alkaloids. Journal of Organic Chemistry, 1999, 64, 5804-5814.	1.7	47
85	Effect of monomer structure on the gelation of a class of metallo-supramolecular polymers. Soft Matter, 2009, 5, 4647.	1.2	47
86	Structure and Gelation Mechanism of Tunable Guanosine-Based Supramolecular Hydrogels. Langmuir, 2010, 26, 10093-10101.	1.6	46
87	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. Nano Letters, 2015, 15, 5730-5738.	4.5	46
88	Ammonium Ion Binding with Pyridine-Containing Crown Ethers. Organic Letters, 2000, 2, 2947-2950.	2.4	45
89	Molecular Engineering of Supramolecular Scaffold Coatings that Can Reduce Static Platelet Adhesion. Journal of the American Chemical Society, 2008, 130, 1466-1476.	6.6	45
90	Making molecular-necklaces from rotaxanes. Tetrahedron, 2002, 58, 807-814.	1.0	44

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91	Supramolecular Interactions in the Formation of Thermotropic Liquid Crystalline Polymers. , 2007, , 119-149.		44
92	Thermodynamics and Structure of Poly[<i>n</i>]catenane Melts. Macromolecules, 2020, 53, 3390-3408.	2.2	44
93	Fluorescent supramolecular liquid crystalline polymers from nucleobase-terminated monomers. Chemical Communications, 2003, , 2428-2429.	2.2	43
94	Thermoresponsive Shape-Memory Aerogels from Thiolâ€"Ene Networks. Chemistry of Materials, 2016, 28, 2341-2347.	3.2	42
95	Dynamic reaction-induced phase separation in tunable, adaptive covalent networks. Chemical Science, 2020, 11, 5028-5036.	3.7	41
96	Tetrathiafulvalenenaphthalenophanes:Â Planar Chirality andcis/transPhotoisomerization. Journal of Organic Chemistry, 2000, 65, 4120-4126.	1.7	40
97	Enhancing the Mechanical Properties of Guanosine-Based Supramolecular Hydrogels with Guanosine-Containing Polymers. Macromolecules, 2014, 47, 1810-1818.	2.2	40
98	Metallo-Responsive Liquid Crystalline Monomers and Polymers. Chemistry of Materials, 2011, 23, 3525-3533.	3.2	39
99	Dynamics of poly[n]catenane melts. Journal of Chemical Physics, 2020, 152, 214901.	1.2	39
100	Controlling the Rate of Water-Induced Switching in Mechanically Dynamic Cellulose Nanocrystal Composites. Macromolecules, 2013, 46, 8203-8212.	2.2	38
101	Fabrication of Electrically Conductive Metal Patterns at the Surface of Polymer Films by Microplasma-Based Direct Writing. ACS Applied Materials & Interfaces, 2014, 6, 3099-3104.	4.0	38
102	Self-assembly and alignment of semiconductor nanoparticles on cellulose nanocrystals. Journal of Materials Science, 2011, 46, 5672-5679.	1.7	37
103	Redox-induced polymerisation/depolymerisation of metallo-supramolecular polymers. Polymer Chemistry, 2012, 3, 3132.	1.9	37
104	Surrogate-stoppered [2]rotaxanes: a new route to larger interlocked architectures. Polymers for Advanced Technologies, 2002, 13, 777-787.	1.6	36
105	Preparation of cellulose nanofibers from Miscanthus x. Giganteus by ammonium persulfate oxidation. Carbohydrate Polymers, 2019, 212, 30-39.	5.1	35
106	Ion-Conducting Dynamic Solid Polymer Electrolyte Adhesives. ACS Macro Letters, 2020, 9, 500-506.	2.3	35
107	Engineering diversity into dynamic combinatorial libraries by use of a small flexible building block. New Journal of Chemistry, 1998, 22, 1015-1018.	1.4	34
108	<i>In Situ</i> Formation of Metal Nanoparticle Composites via â€œSoftâ€•Plasma Electrochemical Reduction of Metallosupramolecular Polymer Films. Macromolecules, 2012, 45, 8201-8210.	2.2	33

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109	Thermoresponsive Supramolecular Polymer Network Comprising Pyrene-Functionalized Gold Nanoparticles and a Chain-Folding Polydiimide. Macromolecules, 2012, 45, 5567-5574.	2.2	33
110	Polycatenanes: synthesis, characterization, and physical understanding. Chemical Society Reviews, 2022, 51, 4928-4948.	18.7	33
111	Ring-opening metathesis polymerization as a route to controlled copolymers of ethylene and polar monomers: Synthesis of ethylene-vinyl chloride-like copolymers. Journal of Polymer Science Part A, 2003, 41, 2107-2116.	2.5	31
112	Improved synthesis of functionalized mesogenic 2,6-bisbenzimidazolylpyridine ligands. Tetrahedron, 2008, 64, 8488-8495.	1.0	30
113	Impact of Dynamic Bond Concentration on the Viscoelastic and Mechanical Properties of Dynamic Poly(alkylureaâ€‹<i>co</i>â€‹urethane) Networks. Macromolecular Chemistry and Physics, 2020, 221, 1900440.	1.1	30
114	Directed Self-Assembly of Metallosupramolecular Polymers at the Polymerâ€“Polymer Interface. ACS Macro Letters, 2012, 1, 882-887.	2.3	28
115	Synthesis and kinetic cyclisation of quinine-derived oligomers. Tetrahedron Letters, 1996, 37, 6013-6016.	0.7	27
116	Toward Interlocked Molecules beyond Catenanes and Rotaxanes. Organic Letters, 2000, 2, 2943-2946.	2.4	27
117	Facile Reduction of Poly(2,5-dialkoxy-p-phenylene ethynylene)s:Â An Efficient Route for the Synthesis of Poly(2,5-dialkoxy-p-xylylene)s. Macromolecules, 2002, 35, 590-593.	2.2	26
118	Polyvalent Interactions in Unnatural Recognition Processes. Journal of Organic Chemistry, 2004, 69, 4390-4402.	1.7	26
119	<i>In Vitro</i> and <i>in Vivo</i> Analyses of the Effects of Source, Length, and Charge on the Cytotoxicity and Immunocompatibility of Cellulose Nanocrystals. ACS Biomaterials Science and Engineering, 2021, 7, 1450-1461.	2.6	26
120	Micelles make a living. Nature Materials, 2009, 8, 89-91.	13.3	25
121	Enzyme models: design and selection. Current Opinion in Chemical Biology, 1997, 1, 483-490.	2.8	24
122	Structureâ€“Property Relationships in Metallosupramolecular Poly(<i>p</i>-xylylene)s. Macromolecules, 2012, 45, 126-132.	2.2	24
123	Controlling the Morphology of Dynamic Thia-Michael Networks to Target Pressure-Sensitive and Hot Melt Adhesives. ACS Applied Materials & Interfaces, 2021, 13, 27471-27480.	4.0	24
124	Ion-Conducting Thermoresponsive Films Based on Polymer-Grafted Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 54083-54093.	4.0	23
125	Strukturgerichtete Synthese unter thermodynamischer Kontrolle: makrocyclische Trimere aus Chinaâ€Alkaloiden. Angewandte Chemie, 1996, 108, 2283-2285.	1.6	22
126	The balance between electronic and steric effects in the template-directed syntheses of [2]catenanes. Tetrahedron, 2001, 57, 3799-3808.	1.0	22

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127	Nonionic surfactant-induced stabilization and tailorability of sugar-amphiphile hydrogels. Soft Matter, 2011, 7, 6984.	1.2	22
128	Discussion on â€œAperiodic Copolymersâ€• ACS Macro Letters, 2016, 5, 1-3.	2.3	21
129	Surface-Aided Supramolecular Polymerization: A Route to Controlled Nanoscale Assemblies. Small, 2007, 3, 783-787.	5.2	19
130	Effect of Monomer Structure and Solvent on the Growth of Supramolecular Nanoassemblies on a Graphite Surface. Langmuir, 2009, 25, 653-656.	1.6	19
131	Optimizing the formation of 2,6-bis(N-alkyl-benzimidazolyl)pyridine-containing [3]catenates through component design. Chemical Science, 2013, 4, 4440.	3.7	19
132	Synthesis and Fabrication of Nanocomposite Fibers of Collagen-Cellulose Nanocrystals by Coelectrocompaction. Biomacromolecules, 2017, 18, 1259-1267.	2.6	19
133	Effect of stoichiometry on liquid crystalline supramolecular polymers formed with complementary nucleobase pair interactions. Journal of Polymer Science Part A, 2006, 44, 5049-5059.	2.5	18
134	Chemorheology of Poly(high internal phase emulsions). Macromolecules, 2013, 46, 5393-5396.	2.2	17
135	Effect of processing conditions on the mechanical properties of bio-inspired mechanical gradient nanocomposites. European Polymer Journal, 2019, 115, 107-114.	2.6	17
136	Effect of Graft Molecular Weight and Density on the Mechanical Properties of Polystyrene-Grafted Cellulose Nanocrystal Films. Macromolecules, 2021, 54, 10594-10604.	2.2	15
137	Rheological Properties and Conformation of a Side-Chain Liquid Crystal Polysiloxane Dissolved in a Nematic Solvent. Macromolecules, 2005, 38, 5205-5213.	2.2	14
138	Polymers with bio-inspired strength. Nature Chemistry, 2009, 1, 347-348.	6.6	14
139	Synthesis and Characterization of Redox-Responsive Disulfide Cross-Linked Polymer Particles for Energy Storage Applications. ACS Macro Letters, 2021, 10, 1637-1642.	2.3	14
140	Light-Activated Healing of Metallosupramolecular Polymers. Chimia, 2011, 65, 745.	0.3	13
141	Confronting Racism in Chemistry Journals. ACS Applied Materials & Interfaces, 2020, 12, 28925-28927.	4.0	13
142	The Effect of Shear on the Evolution of Morphology in High Internal Phase Emulsions Used as Templates for Structural and Functional Polymer Foams. ACS Applied Polymer Materials, 2020, 2, 1579-1586.	2.0	12
143	Surfactant-Free Latex Nanocomposites Stabilized and Reinforced by Hydrophobically Functionalized Cellulose Nanocrystals. ACS Applied Polymer Materials, 2020, 2, 2291-2302.	2.0	12
144	Synthesis and structural properties of the first dodecakis(aryloxy)triphenylenes. Journal of Molecular Structure, 1997, 405, 169-178.	1.8	11

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145	Hydrodynamic interactions in topologically linked ring polymers. Physical Review E, 2020, 102, 032502.	0.8	11
146	Effect of metallosupramolecular polymer concentration on the synthesis of poly[<i>n</i>]catenanes. Chemical Science, 2021, 12, 8722-8730.	3.7	11
147	Nanocomposites Assembled via Electrostatic Interactions between Cellulose Nanocrystals and a Cationic Polymer. Biomacromolecules, 2021, 22, 5087-5096.	2.6	11
148	Synthesis and structure of the first per-substituted anthracene host: decakis(cyclopentylthio)anthracene. Supramolecular Chemistry, 1994, 3, 223-226.	1.5	10
149	The effect of polymer grafting on the mechanical properties of <scp>PEG</scp>â€grafted cellulose nanocrystals in poly(lactic acid). Journal of Polymer Science, 2022, 60, 3318-3330.	2.0	10
150	Microscale Characterization of a Mechanically Adaptive Polymer Nanocomposite With Cotton-Derived Cellulose Nanocrystals for Implantable BioMEMS. Journal of Microelectromechanical Systems, 2014, 23, 774-784.	1.7	9
151	Enhanced Ion Conductivity through Hydrated, Polyelectrolyte-Grafted Cellulose Nanocrystal Films. Macromolecules, 2021, 54, 6925-6936.	2.2	9
152	Metallomesogens. Angewandte Chemie - International Edition, 2005, 44, 4830-4832.	7.2	8
153	A Versatile Colorimetric Probe based on Thiosemicarbazideâ€"Amine Proton Transfer. Chemistry - A European Journal, 2018, 24, 7369-7373.	1.7	8
154	Leveraging Actinide Hydrolysis Chemistry for Targeted Th and U Separations using Amidoximeâ€Functionalized Poly(HIPE)s. ChemPhysChem, 2020, 21, 1157-1165.	1.0	7
155	100th Anniversary of Macromolecular Science Viewpoints. ACS Macro Letters, 2021, 10, 466-468.	2.3	7
156	Squid Beak Inspired Cross-Linked Cellulose Nanocrystal Composites. Biomacromolecules, 2021, 22, 201-212.	2.6	6
157	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Applied Materials & Interfaces, 2020, 12, 20147-20148.	4.0	5
158	Confronting Racism in Chemistry Journals. Nano Letters, 2020, 20, 4715-4717.	4.5	5
159	Happy 100th Anniversary to Polymer Science and Engineering. ACS Macro Letters, 2020, 9, 122-122.	2.3	5
160	The Preparation of Metallosupramolecular Polymers and Gels by Utilizing 2,6-bis-(1â€²-Methyl-benzimidazolyl)Pyridineâ€"Metal Ion Interactions. ACS Symposium Series, 2006, , 97-112.	0.5	4
161	Confronting Racism in Chemistry Journals. Organic Letters, 2020, 22, 4919-4921.	2.4	4
162	Metastable doubly threaded [3]rotaxanes with a large macrocycle. Chemical Science, 2022, 13, 5333-5344.	3.7	4

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163	Combining Chemistry, Materials Science, Inspiration from Nature, and Serendipity to Develop Stimuliâ€Responsive Polymeric Materials. Israel Journal of Chemistry, 2020, 60, 100-107.	1.0	3
164	Fluid transport in open-cell polymeric foams: effect of morphology and surface wettability. SN Applied Sciences, 2020, 2, 1.	1.5	3
165	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of the American Chemical Society, 2020, 142, 8059-8060.	6.6	3
166	Model for the hydrodynamic dispersion of agglomerates incorporating thermoresponsive additives. Journal of Polymer Engineering, 2011, 31, .	0.6	2
167	Viewpoint Invitation. ACS Macro Letters, 2014, 3, 1036-1036.	2.3	2
168	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Nano, 2020, 14, 5151-5152.	7.3	2
169	Confronting Racism in Chemistry Journals. ACS Nano, 2020, 14, 7675-7677.	7.3	2
170	Confronting Racism in Chemistry Journals. Chemical Reviews, 2020, 120, 5795-5797.	23.0	2
171	Temperature Controlled Dispersion of Poly(N-Isopropyl Acrylamide) Treated Silica Clusters. Rubber Chemistry and Technology, 2008, 81, 809-820.	0.6	1
172	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Energy Letters, 2020, 5, 1610-1611.	8.8	1
173	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Environmental Science and Technology Letters, 2020, 7, 280-281.	3.9	1
174	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Chemical Education, 2020, 97, 1217-1218.	1.1	1
175	Confronting Racism in Chemistry Journals. Journal of Physical Chemistry Letters, 2020, 11, 5279-5281.	2.1	1
176	Confronting Racism in Chemistry Journals. ACS Central Science, 2020, 6, 1012-1014.	5.3	1
177	Confronting Racism in Chemistry Journals. Journal of the American Society for Mass Spectrometry, 2020, 31, 1321-1323.	1.2	1
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