

# Stuart J Rowan

## List of Publications by Citations

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166  
papers

18,822  
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63  
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136  
g-index

315  
ext. papers

20,401  
ext. citations

8.7  
avg, IF

7.02  
L-index

#	Paper	IF	Citations
166	Dynamic covalent chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 898-952	16.4	1903
165	Optically healable supramolecular polymers. <i>Nature</i> , <b>2011</b> , 472, 334-7	50.4	1355
164	Using the dynamic bond to access macroscopically responsive structurally dynamic polymers. <i>Nature Materials</i> , <b>2011</b> , 10, 14-27	27	1160
163	Stimuli-responsive polymer nanocomposites inspired by the sea cucumber dermis. <i>Science</i> , <b>2008</b> , 319, 1370-4	33.3	765
162	A healable supramolecular polymer blend based on aromatic pi-pi stacking and hydrogen-bonding interactions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12051-8	16.4	657
161	Multistimuli, multiresponsive metallo-supramolecular polymers. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13922-3	16.4	639
160	Supramolecular gels formed from multi-component low molecular weight species. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 6089-102	58.5	551
159	Nucleobases as supramolecular motifs. <i>Chemical Society Reviews</i> , <b>2005</b> , 34, 9-21	58.5	503
158	Understanding the mechanism of gelation and stimuli-responsive nature of a class of metallo-supramolecular gels. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11663-72	16.4	471
157	Dynamische kovalente Chemie. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 938-993	3.6	456
156	A self-repairing, supramolecular polymer system: healability as a consequence of donor-acceptor pi-pi stacking interactions. <i>Chemical Communications</i> , <b>2009</b> , 6717-9	5.8	422
155	Thermo-, photo-, and chemo-responsive shape-memory properties from photo-cross-linked metallo-supramolecular polymers. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12866-74	16.4	416
154	A versatile approach for the processing of polymer nanocomposites with self-assembled nanofibre templates. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 765-9	28.7	364
153	Supramolecular Polymerizations and Main-Chain Supramolecular Polymers. <i>Macromolecules</i> , <b>2009</b> , 42, 6823-6835	5.5	297
152	Bioinspired Mechanically Adaptive Polymer Nanocomposites with Water-Activated Shape-Memory Effect. <i>Macromolecules</i> , <b>2011</b> , 44, 6827-6835	5.5	275
151	Inherently Photohealable and Thermal Shape-Memory Polydisulfide Networks. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 694-699	6.6	272
150	High-strength, healable, supramolecular polymer nanocomposites. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5362-8	16.4	270

149	Utilization of a combination of weak hydrogen-bonding interactions and phase segregation to yield highly thermosensitive supramolecular polymers. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 18202-11	16.4	253
148	Polymer nanocomposites with nanowhiskers isolated from microcrystalline cellulose. <i>Biomacromolecules</i> , <b>2009</b> , 10, 712-6	6.9	222
147	Fluorescent sensors for the detection of chemical warfare agents. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 7828-36	4.8	208
146	pH-Responsive Cellulose Nanocrystal Gels and Nanocomposites. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 1001-1006	6.6	205
145	A Supramolecular Polymer Based on Tweezer-Type $\pi$ -Stacking Interactions: Molecular Design for Healability and Enhanced Toughness. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 6-8	9.6	199
144	Fluorescent organometallic sensors for the detection of chemical-warfare-agent mimics. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 5825-9	16.4	188
143	Metal/Ligand-Induced Formation of Metallo-Supramolecular Polymers. <i>Macromolecules</i> , <b>2005</b> , 38, 5060-5068	5.8	181
142	Biomimetic mechanically adaptive nanocomposites. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 212-222	29.6	169
141	Mechanically-compliant intracortical implants reduce the neuroinflammatory response. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 056014	5	161
140	Optically healable polymers. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 7278-88	58.5	150
139	Natural biopolymers: novel templates for the synthesis of nanostructures. <i>Langmuir</i> , <b>2010</b> , 26, 8497-5024		148
138	Bio-inspired mechanically-adaptive nanocomposites derived from cotton cellulose whiskers. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 180-186		146
137	Metal-ligand induced supramolecular polymerization: a route to responsive materials. <i>Faraday Discussions</i> , <b>2005</b> , 128, 43-53	3.6	137
136	Automated Recognition, Sorting, and Covalent Self-Assembly by Predisposed Building Blocks in a Mixture. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 2578-2579	16.4	136
135	Stimuli-responsive mechanically adaptive polymer nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 165-74	9.5	124
134	Poly $\pi$ -catenanes: Synthesis of molecular interlocked chains. <i>Science</i> , <b>2017</b> , 358, 1434-1439	33.3	123
133	Water-Triggered Modulus Changes of Cellulose Nanofiber Nanocomposites with Hydrophobic Polymer Matrices. <i>Macromolecules</i> , <b>2012</b> , 45, 4707-4715	5.5	122
132	Stimuli-responsive, mechanically-adaptive polymer nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2812-2822		115

131	Stimuli-responsive europium-containing metallo-supramolecular polymers. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 145-151		114
130	Water-responsive mechanically adaptive nanocomposites based on styrene-butadiene rubber and cellulose nanocrystals--processing matters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 967-76	9.5	113
129	Effect of Sterics and Degree of Cross-Linking on the Mechanical Properties of Dynamic Poly(alkylureaurethane) Networks. <i>Macromolecules</i> , <b>2017</b> , 50, 5051-5060	5.5	112
128	Stimuli-Responsive Reversible Two-Level Adhesion from a Structurally Dynamic Shape-Memory Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11041-9	9.5	109
127	Stress transfer in cellulose nanowhisker composites--influence of whisker aspect ratio and surface charge. <i>Biomacromolecules</i> , <b>2011</b> , 12, 1363-9	6.9	106
126	Rheological Behavior of Shear-Responsive Metallo-Supramolecular Gels. <i>Macromolecules</i> , <b>2004</b> , 37, 3529-3531	5.5	106
125	Living Macrolactonisation: thermodynamically-controlled cyclisation and interconversion of oligocholates. <i>Chemical Communications</i> , <b>1996</b> , 319-320	5.8	105
124	Rotaxane Formation under Thermodynamic Control. <i>Organic Letters</i> , <b>1999</b> , 1, 1363-1366	6.2	98
123	Bioinspired water-enhanced mechanical gradient nanocomposite films that mimic the architecture and properties of the squid beak. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5167-74	16.4	97
122	Stress-transfer in anisotropic and environmentally adaptive cellulose whisker nanocomposites. <i>Biomacromolecules</i> , <b>2010</b> , 11, 762-8	6.9	97
121	Dynamic hemicarcerands and hemicarceplexes. <i>Organic Letters</i> , <b>2000</b> , 2, 2411-4	6.2	96
120	Reinforcement of Optically Healable Supramolecular Polymers with Cellulose Nanocrystals. <i>Macromolecules</i> , <b>2014</b> , 47, 152-160	5.5	93
119	Control of Gel Morphology and Properties of a Class of Metallo-Supramolecular Polymers by Good/Poor Solvent Environments. <i>Macromolecules</i> , <b>2009</b> , 42, 236-246	5.5	92
118	Synthesis and optical properties of metallo-supramolecular polymers. <i>Chemical Communications</i> , <b>2005</b> , 319-21	5.8	91
117	Toward Daisy Chain Polymers: "Wittig Exchange" of Stoppers in. <i>Organic Letters</i> , <b>2000</b> , 2, 759-762	6.2	91
116	50th Anniversary Perspective: Solid-State Multistimuli, Multiresponsive Polymeric Materials. <i>Macromolecules</i> , <b>2017</b> , 50, 8845-8870	5.5	90
115	Synthesis and Properties of Metallo-Supramolecular Poly(p-phenylene ethynylene)s. <i>Macromolecules</i> , <b>2006</b> , 39, 651-657	5.5	90
114	Development, processing and applications of bio-sourced cellulose nanocrystal composites. <i>Progress in Polymer Science</i> , <b>2020</b> , 103, 101221	29.6	84

113	Precision Molecular Grafting: Exchanging Surrogate Stoppers in [2]Rotaxanes. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 164-165	16.4	80
112	Mechanically adaptive nanocomposites for neural interfacing. <i>MRS Bulletin</i> , <b>2012</b> , 37, 581-589	3.2	75
111	Metallo-Supramolecular Polymerization: A Route to Easy-To-Process Organic/Inorganic Hybrid Materials. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2007</b> , 17, 91-103	3.2	75
110	Triphenylphosphonium-Stoppered [2]Rotaxanes. <i>Organic Letters</i> , <b>1999</b> , 1, 129-132	6.2	75
109	Tailoring the properties of guanosine-based supramolecular hydrogels. <i>Langmuir</i> , <b>2009</b> , 25, 8833-40	4	73
108	Thermodynamic Synthesis of Rotaxanes by Imine Exchange. <i>Organic Letters</i> , <b>1999</b> , 1, 1913-1916	6.2	73
107	Vapochromic and mechanochromic films from square-planar platinum complexes in polymethacrylates. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14196		69
106	Toward potential supramolecular tissue engineering scaffolds based on guanosine derivatives. <i>Chemical Science</i> , <b>2012</b> , 3, 564-572	9.4	68
105	Metallo-, Thermo-, and Photoresponsive Shape Memory and Actuating Liquid Crystalline Elastomers. <i>Macromolecules</i> , <b>2015</b> , 48, 3239-3246	5.5	66
104	Influence of Metal Ion and Polymer Core on the Melt Rheology of Metallosupramolecular Films. <i>Macromolecules</i> , <b>2012</b> , 45, 473-480	5.5	65
103	Miscanthus Giganteus: A commercially viable sustainable source of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2017</b> , 155, 230-241	10.3	60
102	Polyimide Cellulose Nanocrystal Composite Aerogels. <i>Macromolecules</i> , <b>2016</b> , 49, 1692-1703	5.5	59
101	Nanoemulsions and Nanolatexes Stabilized by Hydrophobically Functionalized Cellulose Nanocrystals. <i>Macromolecules</i> , <b>2017</b> , 50, 6032-6042	5.5	58
100	Structural origin of the thixotropic behavior of a class of metallosupramolecular gels. <i>Tetrahedron</i> , <b>2007</b> , 63, 7419-7431	2.4	58
99	Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1460-1460	16.4	58
98	Macrocycles Derived from Cinchona Alkaloids: A Thermodynamic vs Kinetic Study. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 1536-1546	4.2	58
97	Structure-Directed Synthesis under Thermodynamic Control: Macrocyclic Trimers from Cinchona Alkaloids. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 2143-2145		56
96	Decoupling Optical Properties in Metallo-Supramolecular Poly(p-phenylene ethynylene)s. <i>Macromolecules</i> , <b>2008</b> , 41, 2157-2163	5.5	55

95	Nucleobase-induced supramolecular polymerization in the solid state. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 3589-3596	2.5	53
94	Trapping Dynamic Disulfide Bonds in the Hard Segments of Thermoplastic Polyurethane Elastomers. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600320	2.6	52
93	A rotaxane-like complex with controlled-release characteristics. <i>Organic Letters</i> , <b>2000</b> , 2, 3631-4	6.2	52
92	Post-assembly processing of [2]rotaxanes. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 5170-83	4.8	50
91	Liquid-crystalline supramolecular polymers formed through complementary nucleobase-pair interactions. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 446-56	4.8	49
90	Synthesis and Properties of Metallo-Supramolecular Poly(p-xylylene)s. <i>Macromolecules</i> , <b>2006</b> , 39, 4069-4075	4.3	47
89	Biomimetic Reversible Heat-Stiffening Polymer Nanocomposites. <i>ACS Central Science</i> , <b>2017</b> , 3, 886-894	16.8	45
88	Molecular engineering of supramolecular scaffold coatings that can reduce static platelet adhesion. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1466-76	16.4	44
87	Effect of monomer structure on the gelation of a class of metallo-supramolecular polymers. <i>Soft Matter</i> , <b>2009</b> , 5, 4647	3.6	43
86	Fluorescent supramolecular liquid crystalline polymers from nucleobase-terminated monomers. <i>Chemical Communications</i> , <b>2003</b> , 2428-9	5.8	42
85	Ammonium ion binding with pyridine-containing crown ethers. <i>Organic Letters</i> , <b>2000</b> , 2, 2947-50	6.2	42
84	Material properties and applications of mechanically interlocked polymers. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 508-530	73.3	42
83	Supramolecular Interactions in the Formation of Thermotropic Liquid Crystalline Polymers <b>2007</b> , 119-149		41
82	An hermaphroditic [c2]daisy chain. <i>Chemical Communications</i> , <b>2002</b> , 2948-9	5.8	40
81	Structure and gelation mechanism of tunable guanosine-based supramolecular hydrogels. <i>Langmuir</i> , <b>2010</b> , 26, 10093-101	4	39
80	Metallo-Responsive Liquid Crystalline Monomers and Polymers. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3525-3533	5.3	39
79	Making molecular-necklaces from rotaxanes. <i>Tetrahedron</i> , <b>2002</b> , 58, 807-814	2.4	38
78	Open-to-Air RAFT Polymerization in Complex Solvents: From Whisky to Fermentation Broth. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 406-411	6.6	37

77	Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. <i>Acta Biomaterialia</i> , <b>2016</b> , 29, 81-93	10.8	37
76	Redox-induced polymerisation/depolymerisation of metallo-supramolecular polymers. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 3132	4.9	37
75	Effects of Shape on Thermodynamic Cyclizations of Cinchona Alkaloids. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 5804-5814	4.2	37
74	Topological Effects in Isolated Poly[n]catenanes: Molecular Dynamics Simulations and Rouse Mode Analysis. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 938-943	6.6	36
73	Fabrication of electrically conductive metal patterns at the surface of polymer films by microplasma-based direct writing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3099-104	9.5	36
72	Tetrathiafulvalenenaphthalenophanes: planar chirality and cis/trans photoisomerization. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 4120-6	4.2	34
71	Strong, Rebondable, Dynamic Cross-Linked Cellulose Nanocrystal Polymer Nanocomposite Adhesives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30723-30731	9.5	34
70	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , <b>2015</b> , 15, 5730-8	11.5	33
69	Enhancing the Mechanical Properties of Guanosine-Based Supramolecular Hydrogels with Guanosine-Containing Polymers. <i>Macromolecules</i> , <b>2014</b> , 47, 1810-1818	5.5	33
68	Thermoresponsive Supramolecular Polymer Network Comprising Pyrene-Functionalized Gold Nanoparticles and a Chain-Folding Polydiimide. <i>Macromolecules</i> , <b>2012</b> , 45, 5567-5574	5.5	33
67	Self-assembly and alignment of semiconductor nanoparticles on cellulose nanocrystals. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 5672-5679	4.3	33
66	Thermoresponsive Shape-Memory Aerogels from Thiol-Ene Networks. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2341-2347	9.6	33
65	Controlling the Rate of Water-Induced Switching in Mechanically Dynamic Cellulose Nanocrystal Composites. <i>Macromolecules</i> , <b>2013</b> , 46, 8203-8212	5.5	32
64	In Situ Formation of Metal Nanoparticle Composites via Soft-Plasma Electrochemical Reduction of Metallo-supramolecular Polymer Films. <i>Macromolecules</i> , <b>2012</b> , 45, 8201-8210	5.5	32
63	Surrogate-stoppered [2]rotaxanes: a new route to larger interlocked architectures. <i>Polymers for Advanced Technologies</i> , <b>2002</b> , 13, 777-787	3.2	31
62	Fluorescent Organometallic Sensors for the Detection of Chemical-Warfare-Agent Mimics. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 5957-5961	3.6	28
61	Engineering diversity into dynamic combinatorial libraries by use of a small flexible building block. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 1015-1018	3.6	27
60	Ring-opening metathesis polymerization as a route to controlled copolymers of ethylene and polar monomers: Synthesis of ethylene-vinyl chloride-like copolymers. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 2107-2116	2.5	27

59	Directed Self-Assembly of Metallosupramolecular Polymers at the Polymer-Polymer Interface. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 882-887	6.6	26
58	Thermodynamics and Structure of Poly[n]catenane Melts. <i>Macromolecules</i> , <b>2020</b> , 53, 3390-3408	5.5	25
57	Improved synthesis of functionalized mesogenic 2,6-bisbenzimidazolylpyridine ligands. <i>Tetrahedron</i> , <b>2008</b> , 64, 8488-8495	2.4	25
56	Facile Reduction of Poly(2,5-dialkoxy-p-phenylene ethynylene)s: An Efficient Route for the Synthesis of Poly(2,5-dialkoxy-p-xylylene)s. <i>Macromolecules</i> , <b>2002</b> , 35, 590-593	5.5	25
55	Dynamics of poly[n]catenane melts. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 214901	3.9	24
54	Structure-Property Relationships in Metallosupramolecular Poly(p-xylylene)s. <i>Macromolecules</i> , <b>2012</b> , 45, 126-132	5.5	24
53	Toward interlocked molecules beyond catenanes and rotaxanes. <i>Organic Letters</i> , <b>2000</b> , 2, 2943-6	6.2	24
52	Enzyme models: design and selection. <i>Current Opinion in Chemical Biology</i> , <b>1997</b> , 1, 483-90	9.7	23
51	Polyvalent interactions in unnatural recognition processes. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 4390-402	4.02	23
50	Nonionic surfactant-induced stabilization and tailorability of sugar-amphiphile hydrogels. <i>Soft Matter</i> , <b>2011</b> , 7, 6984	3.6	20
49	Synthesis and kinetic cyclisation of quinine-derived oligomers. <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 6013-6016	2	20
48	Impact of Dynamic Bond Concentration on the Viscoelastic and Mechanical Properties of Dynamic Poly(alkylurea-co-urethane) Networks. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 1900440	2.6	20
47	Effect of monomer structure and solvent on the growth of supramolecular nanoassemblies on a graphite surface. <i>Langmuir</i> , <b>2009</b> , 25, 653-6	4	19
46	Ion-Conducting Dynamic Solid Polymer Electrolyte Adhesives. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 500-506	6.6	18
45	Surface-aided supramolecular polymerization: a route to controlled nanoscale assemblies. <i>Small</i> , <b>2007</b> , 3, 783-7	11	18
44	Effect of stoichiometry on liquid crystalline supramolecular polymers formed with complementary nucleobase pair interactions. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 5049-5059	2.5	18
43	Strukturgerichtete Synthese unter thermodynamischer Kontrolle: makrocyclische Trimere aus China-Alkaloiden. <i>Angewandte Chemie</i> , <b>1996</b> , 108, 2283-2285	3.6	18
42	The balance between electronic and steric effects in the template-directed syntheses of [2]catenanes. <i>Tetrahedron</i> , <b>2001</b> , 57, 3799-3808	2.4	17



41	Optimizing the formation of 2,6-bis(N-alkyl-benzimidazolyl)pyridine-containing [3]catenates through component design. <i>Chemical Science</i> , <b>2013</b> , 4, 4440	9.4	16
40	Chemorheology of Poly(high internal phase emulsions). <i>Macromolecules</i> , <b>2013</b> , 46, 5393-5396	5.5	16
39	Preparation of cellulose nanofibers from Miscanthus x. Giganteus by ammonium persulfate oxidation. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 30-39	10.3	15
38	Discussion on Aperiodic Copolymers ACS Macro Letters, <b>2016</b> , 5, 1-3	6.6	15
37	Synthesis and Fabrication of Nanocomposite Fibers of Collagen-Cellulose Nanocrystals by Coelectrocompaction. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1259-1267	6.9	13
36	Dynamic reaction-induced phase separation in tunable, adaptive covalent networks. <i>Chemical Science</i> , <b>2020</b> , 11, 5028-5036	9.4	13
35	Light-activated healing of metallosupramolecular polymers. <i>Chimia</i> , <b>2011</b> , 65, 745	1.3	13
34	Rheological Properties and Conformation of a Side-Chain Liquid Crystal Polysiloxane Dissolved in a Nematic Solvent. <i>Macromolecules</i> , <b>2005</b> , 38, 5205-5213	5.5	13
33	Synthesis and structural properties of the first dodecakis(aryloxy)triphenylenes. <i>Journal of Molecular Structure</i> , <b>1997</b> , 405, 169-178	3.4	11
32	Effect of processing conditions on the mechanical properties of bio-inspired mechanical gradient nanocomposites. <i>European Polymer Journal</i> , <b>2019</b> , 115, 107-114	5.2	10
31	Ion-Conducting Thermoresponsive Films Based on Polymer-Grafted Cellulose Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54083-54093	9.5	10
30	Metallosupramolecular Polymers, Networks, and Gels 157-178		9
29	The Effect of Shear on the Evolution of Morphology in High Internal Phase Emulsions Used as Templates for Structural and Functional Polymer Foams. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1579-1586	4.3	8
28	Microscale Characterization of a Mechanically Adaptive Polymer Nanocomposite With Cotton-Derived Cellulose Nanocrystals for Implantable BioMEMS. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 774-784	2.5	8
27	Metallomesogens. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4830-4832	16.4	8
26	Hydrodynamic interactions in topologically linked ring polymers. <i>Physical Review E</i> , <b>2020</b> , 102, 032502	2.4	8
25	Synthesis and structure of the first per-substituted anthracene host: decakis(cyclopentylthio)anthracene. <i>Supramolecular Chemistry</i> , <b>1994</b> , 3, 223-226	1.8	7
24	Leveraging Actinide Hydrolysis Chemistry for Targeted Th and U Separations using Amidoxime-Functionalized Poly(HIPE)s. <i>ChemPhysChem</i> , <b>2020</b> , 21, 1157-1165	3.2	5

23	A Versatile Colorimetric Probe based on Thiosemicarbazide-Amine Proton Transfer. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 7369-7373	4.8	5
22	and Analyses of the Effects of Source, Length, and Charge on the Cytotoxicity and Immunocompatibility of Cellulose Nanocrystals. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1450-1461	5.5	5
21	The Preparation of Metallosupramolecular Polymers and Gels by Utilizing 2,6-bis-(1?-Methyl-benzimidazolyl)PyridineMetal Ion Interactions. <i>ACS Symposium Series</i> , <b>2006</b> , 97-112	0.4	4
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