Christoph Weder

List of Publications by Year
in descending order

346 papers	27,807 citations	4120 87 h-index	6630 156 g-index
366 all docs	366 docs citations	366 times ranked	22846 citing authors

#	Article	IF	Citations
1	Photolithographic Fabrication of Mechanically Adaptive Devices. ACS Polymers Au, 2022, 2, 50-58.	1.7	1
2	Asymmetric Mass Transport through Dense Heterogeneous Polymer Membranes: Fundamental Principles, Lessons from Nature, and Artificial Systems. Macromolecular Rapid Communications, 2022, 43, e2100654.	2.0	1
3	Facile Method to Determine the Molecular Weight of Polymer Grafts Grown from Cellulose Nanocrystals. Biomacromolecules, 2022, 23, 699-707.	2.6	4
4	Impurities in polyvinylpyrrolidone: the key factor in the synthesis of gold nanostars. Nanoscale Advances, 2022, 4, 387-392.	2.2	2
5	Comparing Percolation and Alignment of Cellulose Nanocrystals for the Reinforcement of Polyurethane Nanocomposites. ACS Applied Materials & Interfaces, 2022, 14, 7270-7282.	4.0	15
6	N-Heterocyclic carbene iron complexes catalyze the ring-opening polymerization of lactide. Catalysis Science and Technology, 2022, 12, 996-1004.	2.1	15
7	Mechanically robust supramolecular polymer co-assemblies. Nature Communications, 2022, 13, 356.	5.8	26
8	Metallosupramolecular polymers as precursors for platinum nanocomposites. Polymer Chemistry, 2022, 13, 1880-1890.	1.9	0
9	Strain-correlated mechanochromism in different polyurethanes featuring a supramolecular mechanophore. Polymer Chemistry, 2022, 13, 2860-2869.	1.9	16
10	Supramolecular Rings as Building Blocks for Stimuli-Responsive Materials. Gels, 2022, 8, 350.	2.1	0
11	Metalâ€"Ligand Complexes as Dynamic Sacrificial Bonds in Elastic Polymers. Macromolecules, 2022, 55, 5164-5175.	2.2	8
12	Chemical Modification of Reducing Endâ€Groups in Cellulose Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 66-87.	7.2	83
13	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. Angewandte Chemie, 2021, 133, 66-88.	1.6	2
14	Blends of poly(ester urethane)s and polyesters as a general design approach for tripleâ€shape memory polymers. Journal of Applied Polymer Science, 2021, 138, 49935.	1.3	10
15	Nanostructured Polymers Enable Stable and Efficient Lowâ€Power Photon Upconversion. Advanced Functional Materials, 2021, 31, 2004495.	7.8	31
16	From Molecules to Polymersâ€"Harnessing Interâ€and Intramolecular Interactions to Create Mechanochromic Materials. Macromolecular Rapid Communications, 2021, 42, e2000573.	2.0	70
17	Mechanochromism in Structurally Colored Polymeric Materials. Macromolecular Rapid Communications, 2021, 42, e2000528.	2.0	55
18	Mechanochromic Polymers. Macromolecular Rapid Communications, 2021, 42, e2000685.	2.0	8

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19	Cellulose Nanofiber Nanocomposite Pervaporation Membranes for Ethanol Recovery. ACS Applied Nano Materials, 2021, 4, 568-579.	2.4	22
20	Biobased Polyesterâ€Amide/Cellulose Nanocrystal Nanocomposites for Food Packaging. Macromolecular Materials and Engineering, 2021, 306, 2000668.	1.7	11
21	Asymmetric water transport in dense leaf cuticles and cuticle-inspired compositionally graded membranes. Nature Communications, 2021, 12, 1267.	5.8	19
22	Tuning the Properties of Shapeâ€Memory Polyurethanes via the Nature of the Polyester Switching Segment. Macromolecular Materials and Engineering, 2021, 306, 2000770.	1.7	7
23	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5519-5525.	6.6	76
24	Dynamics and healing behavior of metallosupramolecular polymers. Science Advances, 2021, 7, .	4.7	25
25	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. Journal of the American Chemical Society, 2021, 143, 9884-9892.	6.6	58
26	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. Biomacromolecules, 2021, 22, 2702-2717.	2.6	14
27	Tough Bioinspired Composites That Self-Report Damage. ACS Applied Materials & Interfaces, 2021, 13, 27481-27490.	4.0	17
28	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. Angewandte Chemie, 2021, 133, 16327-16335.	1.6	11
29	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. Angewandte Chemie - International Edition, 2021, 60, 16191-16199.	7.2	61
30	Liquid Crystalline Properties of Symmetric and Asymmetric End-Grafted Cellulose Nanocrystals. Biomacromolecules, 2021, 22, 3552-3564.	2.6	10
31	Block Copolymer Stabilized Liquid Nanodroplets Facilitate Efficient Triplet Fusion-Based Photon Upconversion in Solid Polymer Matrices. ACS Applied Materials & Interfaces, 2021, 13, 43314-43322.	4.0	10
32	Photonic Particles Made by the Confined Selfâ€Assembly of a Supramolecular Combâ€Like Block Copolymer. Macromolecular Rapid Communications, 2021, , 2100522.	2.0	11
33	Cellulose nanocrystals as a tunable nanomaterial for pervaporation membranes with asymmetric transport properties. Journal of Membrane Science, 2021, 635, 119473.	4.1	22
34	Modeling ultrasound-induced molecular weight decrease of polymers with multiple scissile azo-mechanophores. Polymer Chemistry, 2021, 12, 4093-4103.	1.9	8
35	Fluorescent plastic nanoparticles to track their interaction and fate in physiological environments. Environmental Science: Nano, 2021, 8, 502-513.	2.2	19
36	Nanocomposites Assembled via Electrostatic Interactions between Cellulose Nanocrystals and a Cationic Polymer. Biomacromolecules, 2021, 22, 5087-5096.	2.6	11

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37	Heterolytic Bond Cleavage in a Scissile Triarylmethane Mechanophore. Journal of the American Chemical Society, 2021, 143, 18859-18863.	6.6	21
38	ACS Macro Letters â€“ Your Go-To Journal for Research on Stimuli-Responsive Polymers. ACS Macro Letters, 2021, 10, 1450-1453.	2.3	2
39	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
40	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. Polymer Chemistry, 2020, 11, 586-592.	1.9	10
41	Spatially Resolved Production of Platinum Nanoparticles in Metallosupramolecular Polymers. Journal of the American Chemical Society, 2020, 142, 342-348.	6.6	7
42	Exploiting Phase Transitions in Polymer Bilayer Actuators. Advanced Intelligent Systems, 2020, 2, 2000177.	3.3	4
43	Crystallizable Supramolecular Polymers: Binding Motif and Processing Matter. Macromolecules, 2020, 53, 9086-9096.	2.2	8
44	Zerovalent Metallosupramolecular Polymers as Precursors to Nanocomposites. Chimia, 2020, 74, 821.	0.3	0
45	Patience is a virtue: self-assembly and physico-chemical properties of cellulose nanocrystal allomorphs. Nanoscale, 2020, 12, 17480-17493.	2.8	37
46	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	1.1	69
47	Mechanically adaptive implants fabricated with poly(2-hydroxyethyl methacrylate)-based negative photoresists. Journal of Materials Chemistry B, 2020, 8, 6357-6365.	2.9	7
48	Mechanochromic Polymers Based on Microencapsulated Solvatochromic Dyes. Macromolecular Rapid Communications, 2020, 41, 1900654.	2.0	18
49	Structureâ€“Property Relationships of Microphase-Separated Metallosupramolecular Polymers. Macromolecules, 2020, 53, 5068-5084.	2.2	25
50	Highly Cross-Linked, Physiologically Responsive, Mechanically Adaptive Polymer Networks Made by Photopolymerization. ACS Omega, 2020, 5, 3090-3097.	1.6	6
51	One-Component Nanocomposites Based on Polymer-Grafted Cellulose Nanocrystals. Macromolecules, 2020, 53, 821-834.	2.2	26
52	Impact of the Combined Use of Magnetite Nanoparticles and Cellulose Nanocrystals on the Shape-Memory Behavior of Hybrid Polyurethane Bionanocomposites. Biomacromolecules, 2020, 21, 2032-2042.	2.6	14
53	Mechanoresponsive Elastomers Made with Excimer-Forming Telechelics. Organic Materials, 2020, 02, 313-322.	1.0	11
54	Dielectric Properties of a Semicrystalline Supramolecular Polymer. , 2020, , .		0

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55	Influence of the Salt Concentration on the Properties of Saltâ€Free Polyelectrolyte Complex Membranes. Macromolecular Materials and Engineering, 2019, 304, 1900245.	1.7	9
56	Toughening of Glassy Supramolecular Polymer Networks. ACS Macro Letters, 2019, 8, 1484-1490.	2.3	25
57	Bioâ€Inspired, Selfâ€Toughening Polymers Enabled by Plasticizerâ€Releasing Microcapsules. Advanced Materials, 2019, 31, e1807212.	11.1	19
58	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. ACS Applied Materials & Interfaces, 2019, 11, 24571-24576.	4.0	49
59	Bonding and Debonding on Demand with Temperature and Light Responsive Supramolecular Polymers. Macromolecular Materials and Engineering, 2019, 304, 1900161.	1.7	14
60	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. ACS Central Science, 2019, 5, 874-881.	5.3	113
61	(De)bonding on Demand with Optically Switchable Adhesives. Advanced Optical Materials, 2019, 7, 1900230.	3.6	82
62	Plant Oil-Based Supramolecular Polymer Networks and Composites for Debonding-on-Demand Adhesives. ACS Applied Polymer Materials, 2019, 1, 1399-1409.	2.0	28
63	Synthesis and properties of poly(norbornene)s with lateral aramid groups. Polymer Chemistry, 2019, 10, 2057-2063.	1.9	6
64	Mechanoâ€•and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. Chemistry - A European Journal, 2019, 25, 6162-6169.	1.7	13
65	Functional Polymers Through Mechanochemistry. Chimia, 2019, 73, 7.	0.3	13
66	Polymer Composites: Bioâ€Inspired, Selfâ€Toughening Polymers Enabled by Plasticizerâ€Releasing Microcapsules (Adv. Mater. 14/2019). Advanced Materials, 2019, 31, 1970103.	11.1	0
67	Hard Phase Crystallization Directs the Phase Segregation of Hydrogen-Bonded Supramolecular Polymers. Macromolecules, 2019, 52, 2164-2172.	2.2	9
68	Stiffnessâ€Changing of Polymer Nanocomposites with Cellulose Nanocrystals and Polymeric Dispersant. Macromolecular Rapid Communications, 2019, 40, 1800910.	2.0	10
69	Healing of Polymeric Solids by Supramolecular Means. Chimia, 2019, 73, 277.	0.3	8
70	Melt-Spun Nanocomposite Fibers Reinforced with Aligned Tunicate Nanocrystals. Polymers, 2019, 11, 1912.	2.0	11
71	Biocompatible thermo- and magneto-responsive shape-memory polyurethane bionanocomposites. Materials Science and Engineering C, 2019, 97, 658-668.	3.8	28
72	Mechanoresponsive, Luminescent Polymer Blends Based on an Excimerâ€Forming Telechelic Macromolecule. Macromolecular Rapid Communications, 2019, 40, e1800705.	2.0	30

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73	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. Environmental Science & Technology, 2019, 53, 1748-1765.	4.6	709
74	Not just Fundamental Research: Education, Equal Opportunities, Knowledge and Technology Transfer, and Communication at the NCCR Bio-Inspired Materials. Chimia, 2019, 73, 86.	0.3	0
75	Tailoring the Properties of a Shape-Memory Polyurethane via Nanocomposite Formation and Nucleation. Macromolecules, 2018, 51, 1841-1849.	2.2	39
76	A Versatile Colorimetric Probe based on Thiosemicarbazideâ€"Amine Proton Transfer. Chemistry - A European Journal, 2018, 24, 7369-7373.	1.7	8
77	Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. Angewandte Chemie, 2018, 130, 2856-2860.	1.6	11
78	Selfâ€Calibrating Mechanochromic Fluorescent Polymers Based on Encapsulated Excimerâ€Forming Dyes. Advanced Materials, 2018, 30, e1704603.	11.1	81
79	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. Journal of the American Chemical Society, 2018, 140, 1584-1587.	6.6	284
80	Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. Angewandte Chemie - International Edition, 2018, 57, 2806-2810.	7.2	28
81	Binary Cellulose Nanocrystal Blends for Bioinspired Damage Tolerant Photonic Films. Advanced Functional Materials, 2018, 28, 1800032.	7.8	63
82	Functionally Graded Polyurethane/Cellulose Nanocrystal Composites. Macromolecular Materials and Engineering, 2018, 303, 1700661.	1.7	7
83	Innentitelbild: Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane (Angew. Chem. 11/2018). Angewandte Chemie, 2018, 130, 2778-2778.	1.6	0
84	Polymer nanocomposites with cellulose nanocrystals made by coâ€precipitation. Journal of Applied Polymer Science, 2018, 135, 45648.	1.3	18
85	Metallocene as Mechanophore in Polymers Leads to Metal Ion Release & Oxidation. Chimia, 2018, 72, 902.	0.3	2
86	Thermoresponsive Liquid Crystals: Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts (Small 46/2018). Small, 2018, 14, 1870218.	5.2	2
87	Microcapsuleâ€Containing Selfâ€Reporting Polymers. Small, 2018, 14, e1802489.	5.2	51
88	Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts. Small, 2018, 14, e1802060.	5.2	34
89	Mechanochemical Fluorescence Switching in Polymers Containing Dithiomaleimide Moieties. ACS Macro Letters, 2018, 7, 1099-1104.	2.3	28
90	Tailoring the Shape Memory Properties of Segmented Poly(ester urethanes) via Blending. ACS Applied Materials & Interfaces, 2018, 10, 24829-24839.	4.0	33

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91	Multistimuli, Multiresponsive Fully Supramolecular Orthogonally Bound Polymer Networks. Macromolecules, 2018, 51, 5867-5874.	2.2	44
92	Grafting Polymers <i>from</i> Cellulose Nanocrystals: Synthesis, Properties, and Applications. Macromolecules, 2018, 51, 6157-6189.	2.2	175
93	Enhancement of triplet-sensitized upconversion in rigid polymers <i>via</i> singlet exciton sink approach. Chemical Science, 2018, 9, 6796-6802.	3.7	30
94	Solid-state sensors based on Eu³⁺-containing supramolecular polymers with luminescence colour switching capability. Dalton Transactions, 2018, 47, 14184-14188.	1.6	12
95	Mechanochemical Activation of Polymer-Embedded Photoluminescent Benzoxazole Moieties. ACS Macro Letters, 2018, 7, 1028-1033.	2.3	32
96	Triggered Metal Ion Release and Oxidation: Ferrocene as a Mechanophore in Polymers. Angewandte Chemie - International Edition, 2018, 57, 11445-11450.	7.2	100
97	Getriggerte Freisetzung und Oxidation von Metallionen: Ferrocen als neuer Mechanophor in Polymeren. Angewandte Chemie, 2018, 130, 11616-11621.	1.6	20
98	Polymer Nanocomposites with Cellulose Nanocrystals Featuring Adaptive Surface Groups. Biomacromolecules, 2017, 18, 517-525.	2.6	49
99	A Simple and Versatile Strategy To Improve the Mechanical Properties of Polymer Nanocomposites with Cellulose Nanocrystals. Macromolecules, 2017, 50, 2364-2374.	2.2	81
100	Light-responsive azo-containing organogels. Soft Matter, 2017, 13, 4017-4023.	1.2	21
101	Quantitative Nano-characterization of Polymers Using Atomic Force Microscopy. Chimia, 2017, 71, 195.	0.3	2
102	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. Polymer Chemistry, 2017, 8, 2115-2122.	1.9	75
103	Thermally activated shape memory behavior of meltâ€mixed polyurethane/cellulose nanocrystal composites. Journal of Applied Polymer Science, 2017, 134, 45033.	1.3	38
104	Mechano- and Thermoresponsive Photoluminescent Supramolecular Polymer. Journal of the American Chemical Society, 2017, 139, 4302-4305.	6.6	185
105	Approaches to polymeric mechanochromic materials. Journal of Polymer Science Part A, 2017, 55, 640-652.	2.5	125
106	Polymer nanocomposites with nanorods having different length distributions. Polymer, 2017, 110, 284-291.	1.8	39
107	Temperature-Dependent Mechanochromic Behavior of Mechanoresponsive Luminescent Compounds. Chemistry of Materials, 2017, 29, 1273-1278.	3.2	99
108	Nanopatterning of a Stimuli-Responsive Fluorescent Supramolecular Polymer by Thermal Scanning Probe Lithography. ACS Applied Materials & Interfaces, 2017, 9, 41454-41461.	4.0	28

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109	<i>50th Anniversary Perspective</i>: Solid-State Multistimuli, Multiresponsive Polymeric Materials. Macromolecules, 2017, 50, 8845-8870.	2.2	117
110	Nanodropletâ€•Containing Polymers for Efficient Lowâ€•Power Light Upconversion. Advanced Materials, 2017, 29, 1702992.	11.1	62
111	Bioinspired Polymer Systems with Stimuli-Responsive Mechanical Properties. Chemical Reviews, 2017, 117, 12851-12892.	23.0	289
112	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. ACS Macro Letters, 2017, 6, 892-897.	2.3	47
113	Asymmetric Cyclophanes Permit Access to Supercooled Nematic Liquid Crystals with Stimulus-Responsive Luminescence. Chemistry of Materials, 2017, 29, 6145-6152.	3.2	43
114	Speckle-Visibility Spectroscopy of Depolarized Dynamic Light Scattering. Journal of Physical Chemistry B, 2017, 121, 7999-8007.	1.2	13
115	Fabrication and Properties of Polyethylene/Cellulose Nanocrystal Composites. Macromolecular Materials and Engineering, 2017, 302, 1600300.	1.7	70
116	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. Chimia, 2017, 71, 376.	0.3	22
117	Elucidating the Potential Biological Impact of Cellulose Nanocrystals. Fibers, 2016, 4, 21.	1.8	47
118	Single-Component Upconverting Polymeric Nanoparticles. Macromolecular Rapid Communications, 2016, 37, 826-832.	2.0	12
119	Deformationâ€•Induced Color Changes in Meltâ€•Processed Polyamide 12 Blends. Macromolecular Materials and Engineering, 2016, 301, 549-554.	1.7	12
120	A Thermoâ€•and Mechanoresponsive Cyanoâ€•Substituted Oligo(<i>pâ€•</i>phenylene vinylene) Derivative with Five Emissive States. Chemistry - A European Journal, 2016, 22, 4374-4378.	1.7	66
121	A critical review of the current knowledge regarding the biological impact of nanocellulose. Journal of Nanobiotechnology, 2016, 14, 78.	4.2	184
122	Azo-Containing Polymers with Degradation On-Demand Feature. Macromolecules, 2016, 49, 2917-2927.	2.2	41
123	Thermoresponsive low-power light upconverting polymer nanoparticles. Materials Horizons, 2016, 3, 602-607.	6.4	40
124	Epoxy Resin-Inspired Reconfigurable Supramolecular Networks. Macromolecules, 2016, 49, 7877-7885.	2.2	49
125	Tuning the thermo- and mechanoresponsive behavior of luminescent cyclophanes. RSC Advances, 2016, 6, 80408-80414.	1.7	23
126	Optically responsive supramolecular polymer glasses. Nature Communications, 2016, 7, 10995.	5.8	142

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127	Mechanoresponsive Luminescent Molecular Assemblies: An Emerging Class of Materials. Advanced Materials, 2016, 28, 1073-1095.	11.1	740
128	Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. Acta Biomaterialia, 2016, 29, 81-93.	4.1	57
129	A mechano- and thermoresponsive luminescent cyclophane. Chemical Communications, 2016, 52, 5694-5697.	2.2	47
130	The Role of Mass and Length in the Sonochemistry of Polymers. Macromolecules, 2016, 49, 1630-1636.	2.2	64
131	Shape Memory Composites Based on Electrospun Poly(vinyl alcohol) Fibers and a Thermoplastic Polyether Block Amide Elastomer. ACS Applied Materials & Interfaces, 2016, 8, 6701-6708.	4.0	45
132	Articular cartilage: from formation to tissue engineering. Biomaterials Science, 2016, 4, 734-767.	2.6	231
133	Bioinspired surfaces and materials. Chemical Society Reviews, 2016, 45, 234-236.	18.7	27
134	Directed cell growth in multi-zonal scaffolds for cartilage tissue engineering. Biomaterials, 2016, 74, 42-52.	5.7	113
135	Supramolecular polymer adhesives: advanced materials inspired by nature. Chemical Society Reviews, 2016, 45, 342-358.	18.7	338
136	Chapter 12. Mechanically Adaptive Nanocomposites Inspired by Sea Cucumbers. RSC Polymer Chemistry Series, 2016, , 402-428.	0.1	2
137	Melt processing of polyamide 12 and cellulose nanocrystals nanocomposites. Journal of Applied Polymer Science, 2015, 132, .	1.3	61
138	Shapeâ€Memory Polyurethane Nanocomposites with Single Layer or Bilayer Oleic Acidâ€Coated Fe₃O₄ Nanoparticles. Macromolecular Materials and Engineering, 2015, 300, 885-892.	1.7	32
139	Supramolecular Cross-Links in Poly(alkyl methacrylate) Copolymers and Their Impact on the Mechanical and Reversible Adhesive Properties. ACS Applied Materials & Interfaces, 2015, 7, 13395-13404.	4.0	102
140	Mechanically adaptive materials for intracortical implants. , 2015, , .		4
141	Progress towards biocompatible intracortical microelectrodes for neural interfacing applications. Journal of Neural Engineering, 2015, 12, 011001.	1.8	309
142	Framing upconversion materials. Nature Materials, 2015, 14, 864-865.	13.3	10
143	Mechanochemistry in Polymers with Supramolecular Mechanophores. Topics in Current Chemistry, 2015, 369, 345-375.	4.0	34
144	Healable supramolecular polymer solids. Progress in Polymer Science, 2015, 49-50, 60-78.	11.8	112

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145	Glassy poly(methacrylate) terpolymers with covalently attached emitters and sensitizers for low-power light upconversion. Journal of Polymer Science Part A, 2015, 53, 1629-1639.	2.5	27
146	Fate of Cellulose Nanocrystal Aerosols Deposited on the Lung Cell Surface In Vitro. Biomacromolecules, 2015, 16, 1267-1275.	2.6	65
147	Influence of Processing Conditions on Properties of Poly (Vinyl acetate)/Cellulose Nanocrystal Nanocomposites. Macromolecular Materials and Engineering, 2015, 300, 562-571.	1.7	66
148	Visualization of Polymer Deformation Using Microcapsules Filled with Charge-Transfer Complex Precursors. ACS Applied Materials & Interfaces, 2015, 7, 21828-21834.	4.0	43
149	Supramolecular Polymer Networks Made by Solvent-Free Copolymerization of a Liquid 2-Ureido-4[1<i>H</i>]-pyrimidinone Methacrylamide. Macromolecules, 2015, 48, 8128-8136.	2.2	32
150	Functionalized cellulose nanocrystals as nanocarriers for sustained fragrance release. Polymer Chemistry, 2015, 6, 6553-6562.	1.9	21
151	Influence of the nanofiber dimensions on the properties of nanocellulose/poly(vinyl alcohol) aerogels. Journal of Applied Polymer Science, 2015, 132, .	1.3	44
152	Cellulose nanocrystal driven crystallization of poly(<scp>d</scp>,<scp>l</scp>â€lactide) and improvement of the thermomechanical properties. Journal of Applied Polymer Science, 2015, 132, .	1.3	39
153	Organogels for low-power light upconversion. Materials Horizons, 2015, 2, 120-124.	6.4	90
154	Mechanochromic Polymers. , 2015, , 1218-1227.		3
155	An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. Particle and Fibre Toxicology, 2014, 11, 40.	2.8	91
156	Synthesis of poly(sulfonate ester)s by ADMET polymerization. RSC Advances, 2014, 4, 53967-53974.	1.7	15
157	Preparation of Cellulose Nanocrystal/Polymer Nanocomposites via Sol-Gel Processes. Materials and Energy, 2014, , 23-34.	2.5	0
158	Functional Iron Oxide Nanoparticles as Reversible Crosslinks for Magnetically Addressable Shapeâ€Memory Polymers. Macromolecular Chemistry and Physics, 2014, 215, 398-404.	1.1	26
159	Supramolecular Polymers with Orthogonal Functionality. Macromolecules, 2014, 47, 8487-8496.	2.2	26
160	Curcumin-releasing mechanically adaptive intracortical implants improve the proximal neuronal density and bloodâ€“brain barrier stability. Acta Biomaterialia, 2014, 10, 2209-2222.	4.1	113
161	Low-power photon upconversion in organic glasses. Journal of Materials Chemistry C, 2014, 2, 2837-2841.	2.7	74
162	Physiologically responsive, mechanically adaptive polymer optical fibers for optogenetics. Optics Letters, 2014, 39, 2872.	1.7	19

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163	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
164	Comparison of the Properties of Cellulose Nanocrystals and Cellulose Nanofibrils Isolated from Bacteria, Tunicate, and Wood Processed Using Acid, Enzymatic, Mechanical, and Oxidative Methods. ACS Applied Materials & Interfaces, 2014, 6, 6127-6138.	4.0	520
165	Thermoplastic shape-memory polyurethanes based on natural oils. Smart Materials and Structures, 2014, 23, 025033.	1.8	31
166	Isolation of cellulose nanocrystals from pseudostems of banana plants. RSC Advances, 2014, 4, 907-915.	1.7	100
167	Influence of mechanical treatments on the properties of cellulose nanofibers isolated from microcrystalline cellulose. Reactive and Functional Polymers, 2014, 85, 134-141.	2.0	47
168	Water-insoluble aerogels made from cellulose nanocrystals and poly(vinyl alcohol). Green Materials, 2014, 2, 169-182.	1.1	9
169	Photoswitchable nanocomposites made from coumarin-functionalized cellulose nanocrystals. Polymer Chemistry, 2014, 5, 5501.	1.9	36
170	Controlled fragrance release from galactose-based pro-fragrances. RSC Advances, 2014, 4, 50882-50890.	1.7	12
171	Mechanical and shapeâ€memory properties of poly(mannitol sebacate)/cellulose nanocrystal nanocomposites. Journal of Polymer Science Part A, 2014, 52, 3123-3133.	2.5	43
172	Biosensors Based on Porous Cellulose Nanocrystalâ€“Poly(vinyl Alcohol) Scaffolds. ACS Applied Materials & Interfaces, 2014, 6, 12674-12683.	4.0	123
173	Mechanochemistry with Metallosupramolecular Polymers. Journal of the American Chemical Society, 2014, 136, 10493-10498.	6.6	203
174	Mechanically-compliant intracortical implants reduce the neuroinflammatory response. Journal of Neural Engineering, 2014, 11, 056014.	1.8	219
175	Light upconversion by tripletâ€“triplet annihilation in diphenylanthracene-based copolymers. Polymer Chemistry, 2014, 5, 6898-6904.	1.9	47
176	Light-Induced Bonding and Debonding with Supramolecular Adhesives. ACS Applied Materials & Interfaces, 2014, 6, 4713-4719.	4.0	171
177	Isophthalic Acidâ€“Pyridine H-Bonding: Simplicity in the Design of Mechanically Robust Phase-Segregated Supramolecular Polymers. ACS Macro Letters, 2014, 3, 540-543.	2.3	23
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