Christoph Weder

List of Publications by Year in Descending Order

333 papers	23,040 citations	81 h-index	143 g-index
366 ext. papers	25,327 ext. citations	8.6 avg, IF	7.36 L-index

#	Paper	IF	Citations
333	Impurities in polyvinylpyrrolidone: the key factor in the synthesis of gold nanostars.. *Nanoscale Advances*, **2022**, 4, 387-392	5.1	0
332	Comparing Percolation and Alignment of Cellulose Nanocrystals for the Reinforcement of Polyurethane Nanocomposites.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	5
331	N-Heterocyclic carbene iron complexes catalyze the ring-opening polymerization of lactide.. *Catalysis Science and Technology*, **2022**, 12, 996-1004	5.5	1
330	Mechanically robust supramolecular polymer co-assemblies.. *Nature Communications*, **2022**, 13, 356	17.4	5
329	Metallosupramolecular polymers as precursors for platinum nanocomposites.. *Polymer Chemistry*, **2022**, 13, 1880-1890	4.9	
328	Supramolecular Rings as Building Blocks for Stimuli-Responsive Materials. *Gels*, **2022**, 8, 350	4.2	
327	Nanocomposites Assembled via Electrostatic Interactions between Cellulose Nanocrystals and a Cationic Polymer. *Biomacromolecules*, **2021**,	6.9	2
326	Heterolytic Bond Cleavage in a Scissile Triarylmethane Mechanophore. *Journal of the American Chemical Society*, **2021**, 143, 18859-18863	16.4	3
325	Asymmetric Mass Transport through Dense Heterogeneous Polymer Membranes: Fundamental Principles, Lessons from Nature, and Artificial Systems. *Macromolecular Rapid Communications*, **2021**, e2100654	4.8	
324	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. *Journal of the American Chemical Society*, **2021**, 143, 5519-5525	16.4	27
323	Dynamics and healing behavior of metallosupramolecular polymers. *Science Advances*, **2021**, 7,	14.3	5
322	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. *Journal of the American Chemical Society*, **2021**, 143, 9884-9892	16.4	18
321	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. *Biomacromolecules*, **2021**, 22, 2702-2717	6.9	6
320	Tough Bioinspired Composites That Self-Report Damage. *ACS Applied Materials & Interfaces*, **2021**, 13, 27481-27490	9.5	5
319	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. *Angewandte Chemie*, **2021**, 133, 16327-16335	3.6	4
318	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. *Angewandte Chemie - International Edition*, **2021**, 60, 16191-16199	16.4	21
317	Liquid Crystalline Properties of Symmetric and Asymmetric End-Grafted Cellulose Nanocrystals. *Biomacromolecules*, **2021**, 22, 3552-3564	6.9	2

316	Chemical Modification of Reducing End-Groups in Cellulose Nanocrystals. *Angewandte Chemie - International Edition*, **2021**, 60, 66-87	16.4	39
315	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. *Angewandte Chemie*, **2021**, 133, 66-88	3.6	2
314	Blends of poly(ester urethane)s and polyesters as a general design approach for triple-shape memory polymers. *Journal of Applied Polymer Science*, **2021**, 138, 49935	2.9	5
313	Nanostructured Polymers Enable Stable and Efficient Low-Power Photon Upconversion. *Advanced Functional Materials*, **2021**, 31, 2004495	15.6	21
312	From Molecules to Polymers-Harnessing Inter- and Intramolecular Interactions to Create Mechanochromic Materials. *Macromolecular Rapid Communications*, **2021**, 42, e2000573	4.8	30
311	Mechanochromism in Structurally Colored Polymeric Materials. *Macromolecular Rapid Communications*, **2021**, 42, e2000528	4.8	23
310	Cellulose Nanofiber Nanocomposite Pervaporation Membranes for Ethanol Recovery. *ACS Applied Nano Materials*, **2021**, 4, 568-579	5.6	9
309	Biobased Polyester-Amide/Cellulose Nanocrystal Nanocomposites for Food Packaging. *Macromolecular Materials and Engineering*, **2021**, 306, 2000668	3.9	3
308	Asymmetric water transport in dense leaf cuticles and cuticle-inspired compositionally graded membranes. *Nature Communications*, **2021**, 12, 1267	17.4	4
307	Tuning the Properties of Shape-Memory Polyurethanes via the Nature of the Polyester Switching Segment. *Macromolecular Materials and Engineering*, **2021**, 306, 2000770	3.9	3
306	Block Copolymer Stabilized Liquid Nanodroplets Facilitate Efficient Triplet Fusion-Based Photon Upconversion in Solid Polymer Matrices. *ACS Applied Materials & Interfaces*, **2021**, 13, 43314-43322	9.5	6
305	Photonic Particles Made by the Confined Self-Assembly of a Supramolecular Comb-Like Block Copolymer. *Macromolecular Rapid Communications*, **2021**, e2100522	4.8	5
304	Cellulose nanocrystals as a tunable nanomaterial for pervaporation membranes with asymmetric transport properties. *Journal of Membrane Science*, **2021**, 635, 119473	9.6	7
303	Modeling ultrasound-induced molecular weight decrease of polymers with multiple scissile azo-mechanophores. *Polymer Chemistry*, **2021**, 12, 4093-4103	4.9	4
302	Fluorescent plastic nanoparticles to track their interaction and fate in physiological environments. *Environmental Science: Nano*, **2021**, 8, 502-513	7.1	4
301	Mechanochromic Polymers Based on Microencapsulated Solvatochromic Dyes. *Macromolecular Rapid Communications*, **2020**, 41, e1900654	4.8	11
300	Structure–Property Relationships of Microphase-Separated Metallosupramolecular Polymers. *Macromolecules*, **2020**, 53, 5068-5084	5.5	9
299	Highly Cross-Linked, Physiologically Responsive, Mechanically Adaptive Polymer Networks Made by Photopolymerization. *ACS Omega*, **2020**, 5, 3090-3097	3.9	4

298	One-Component Nanocomposites Based on Polymer-Grafted Cellulose Nanocrystals. *Macromolecules*, **2020**, 53, 821-834	5.5	15
297	Mechanoresponsive Elastomers Made with Excimer-Forming Telechelics. *Organic Materials*, **2020**, 02, 313-322	1.9	5
296	Combining Chemistry, Materials Science, Inspiration from Nature, and Serendipity to Develop Stimuli-Responsive Polymeric Materials. *Israel Journal of Chemistry*, **2020**, 60, 100-107	3.4	2
295	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. *Polymer Chemistry*, **2020**, 11, 586-592	4.9	6
294	Spatially Resolved Production of Platinum Nanoparticles in Metallosupramolecular Polymers. *Journal of the American Chemical Society*, **2020**, 142, 342-348	16.4	5
293	Exploiting Phase Transitions in Polymer Bilayer Actuators. *Advanced Intelligent Systems*, **2020**, 2, 2000177	6	3
292	Crystallizable Supramolecular Polymers: Binding Motif and Processing Matter. *Macromolecules*, **2020**, 53, 9086-9096	5.5	3
291	Zerovalent Metallosupramolecular Polymers as Precursors to Nanocomposites. *Chimia*, **2020**, 74, 821	1.3	
290	Patience is a virtue: self-assembly and physico-chemical properties of cellulose nanocrystal allomorphs. *Nanoscale*, **2020**, 12, 17480-17493	7.7	17
289	The Next 100 Years of Polymer Science. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000216	2.6	36
288	Mechanically adaptive implants fabricated with poly(2-hydroxyethyl methacrylate)-based negative photoresists. *Journal of Materials Chemistry B*, **2020**, 8, 6357-6365	7.3	2
287	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	6.9	9
286	Influence of the Salt Concentration on the Properties of Salt-Free Polyelectrolyte Complex Membranes. *Macromolecular Materials and Engineering*, **2019**, 304, 1900245	3.9	5
285	Toughening of Glassy Supramolecular Polymer Networks. *ACS Macro Letters*, **2019**, 8, 1484-1490	6.6	13
284	Bio-Inspired, Self-Toughening Polymers Enabled by Plasticizer-Releasing Microcapsules. *Advanced Materials*, **2019**, 31, e1807212	24	13
283	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. *ACS Applied Materials & Interfaces*, **2019**, 11, 24571-24576	9.5	33
282	Bonding and Debonding on Demand with Temperature and Light Responsive Supramolecular Polymers. *Macromolecular Materials and Engineering*, **2019**, 304, 1900161	3.9	8
281	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. *ACS Central Science*, **2019**, 5, 874-881	16.8	76

280	(De)bonding on Demand with Optically Switchable Adhesives. *Advanced Optical Materials*, **2019**, 7, 1900230	8.1	40
279	Plant Oil-Based Supramolecular Polymer Networks and Composites for Debonding-on-Demand Adhesives. *ACS Applied Polymer Materials*, **2019**, 1, 1399-1409	4.3	15
278	Synthesis and properties of poly(norbornene)s with lateral aramid groups. *Polymer Chemistry*, **2019**, 10, 2057-2063	4.9	4
277	Mechano- and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. *Chemistry - A European Journal*, **2019**, 25, 6162-6169	4.8	11
276	Functional Polymers Through Mechanochemistry. *Chimia*, **2019**, 73, 7-11	1.3	10
275	Polymer Composites: Bio-Inspired, Self-Toughening Polymers Enabled by Plasticizer-Releasing Microcapsules (Adv. Mater. 14/2019). *Advanced Materials*, **2019**, 31, 1970103	24	
274	Hard Phase Crystallization Directs the Phase Segregation of Hydrogen-Bonded Supramolecular Polymers. *Macromolecules*, **2019**, 52, 2164-2172	5.5	4
273	Stiffness-Changing of Polymer Nanocomposites with Cellulose Nanocrystals and Polymeric Dispersant. *Macromolecular Rapid Communications*, **2019**, 40, e1800910	4.8	8
272	Healing of Polymeric Solids by Supramolecular Means. *Chimia*, **2019**, 73, 277-282	1.3	6
271	Melt-Spun Nanocomposite Fibers Reinforced with Aligned Tunicate Nanocrystals. *Polymers*, **2019**, 11,	4.5	8
270	Biocompatible thermo- and magneto-responsive shape-memory polyurethane bionanocomposites. *Materials Science and Engineering C*, **2019**, 97, 658-668	8.3	14
269	Mechanoresponsive, Luminescent Polymer Blends Based on an Excimer-Forming Telechelic Macromolecule. *Macromolecular Rapid Communications*, **2019**, 40, e1800705	4.8	22
268	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. *Environmental Science & Technology*, **2019**, 53, 1748-1765	10.3	356
267	Tailoring the Properties of a Shape-Memory Polyurethane via Nanocomposite Formation and Nucleation. *Macromolecules*, **2018**, 51, 1841-1849	5.5	29
266	A Versatile Colorimetric Probe based on Thiosemicarbazide-Amine Proton Transfer. *Chemistry - A European Journal*, **2018**, 24, 7369-7373	4.8	5
265	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. *Angewandte Chemie*, **2018**, 130, 2856-2860	3.6	8
264	Self-Calibrating Mechanochromic Fluorescent Polymers Based on Encapsulated Excimer-Forming Dyes. *Advanced Materials*, **2018**, 30, e1704603	24	62
263	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. *Journal of the American Chemical Society*, **2018**, 140, 1584-1587	16.4	204

262	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. *Angewandte Chemie - International Edition*, **2018**, 57, 2806-2810	16.4	21
261	Binary Cellulose Nanocrystal Blends for Bioinspired Damage Tolerant Photonic Films. *Advanced Functional Materials*, **2018**, 28, 1800032	15.6	41
260	Functionally Graded Polyurethane/Cellulose Nanocrystal Composites. *Macromolecular Materials and Engineering*, **2018**, 303, 1700661	3.9	2
259	Innentitelbild: Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane (Angew. Chem. 11/2018). *Angewandte Chemie*, **2018**, 130, 2778-2778	3.6	
258	Multistimuli, Multiresponsive Fully Supramolecular Orthogonally Bound Polymer Networks. *Macromolecules*, **2018**, 51, 5867-5874	5.5	32
257	Grafting PolymersfromCellulose Nanocrystals: Synthesis, Properties, and Applications. *Macromolecules*, **2018**, 51, 6157-6189	5.5	130
256	Enhancement of triplet-sensitized upconversion in rigid polymers singlet exciton sink approach. *Chemical Science*, **2018**, 9, 6796-6802	9.4	23
255	Solid-state sensors based on Eu-containing supramolecular polymers with luminescence colour switching capability. *Dalton Transactions*, **2018**, 47, 14184-14188	4.3	11
254	Mechanochemical Activation of Polymer-Embedded Photoluminescent Benzoxazole Moieties. *ACS Macro Letters*, **2018**, 7, 1028-1033	6.6	25
253	Triggered Metal Ion Release and Oxidation: Ferrocene as a Mechanophore in Polymers. *Angewandte Chemie - International Edition*, **2018**, 57, 11445-11450	16.4	71
252	Getriggerte Freisetzung und Oxidation von Metallionen: Ferrocen als neuer Mechanophor in Polymeren. *Angewandte Chemie*, **2018**, 130, 11616-11621	3.6	16
251	Polymer nanocomposites with cellulose nanocrystals made by co-precipitation. *Journal of Applied Polymer Science*, **2018**, 135, 45648	2.9	15
250	Metallocene as Mechanophore in Polymers Leads to Metal Ion Release & Oxidation. *Chimia*, **2018**, 72, 902	1.3	1
249	Thermoresponsive Liquid Crystals: Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts (Small 46/2018). *Small*, **2018**, 14, 1870218	11	1
248	Microcapsule-Containing Self-Reporting Polymers. *Small*, **2018**, 14, e1802489	11	30
247	Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts. *Small*, **2018**, 14, e1802060	11	25
246	Mechanochemical Fluorescence Switching in Polymers Containing Dithiomaleimide Moieties. *ACS Macro Letters*, **2018**, 7, 1099-1104	6.6	22
245	Tailoring the Shape Memory Properties of Segmented Poly(ester urethanes) via Blending. *ACS Applied Materials & Interfaces*, **2018**, 10, 24829-24839	9.5	24

244	Polymer Nanocomposites with Cellulose Nanocrystals Featuring Adaptive Surface Groups. *Biomacromolecules*, **2017**, 18, 517-525	6.9	43
243	A Simple and Versatile Strategy To Improve the Mechanical Properties of Polymer Nanocomposites with Cellulose Nanocrystals. *Macromolecules*, **2017**, 50, 2364-2374	5.5	62
242	Light-responsive azo-containing organogels. *Soft Matter*, **2017**, 13, 4017-4023	3.6	11
241	Quantitative Nano-characterization of Polymers Using Atomic Force Microscopy. *Chimia*, **2017**, 71, 195-198	2.3	2
240	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. *Polymer Chemistry*, **2017**, 8, 2115-2122	4.9	62
239	Thermally activated shape memory behavior of melt-mixed polyurethane/cellulose nanocrystal composites. *Journal of Applied Polymer Science*, **2017**, 134, 45033	2.9	33
238	Mechano- and Thermoresponsive Photoluminescent Supramolecular Polymer. *Journal of the American Chemical Society*, **2017**, 139, 4302-4305	16.4	146
237	Approaches to polymeric mechanochromic materials. *Journal of Polymer Science Part A*, **2017**, 55, 640-652	2.5	106
236	Polymer nanocomposites with nanorods having different length distributions. *Polymer*, **2017**, 110, 284-291	3.9	32
235	Temperature-Dependent Mechanochromic Behavior of Mechanoresponsive Luminescent Compounds. *Chemistry of Materials*, **2017**, 29, 1273-1278	9.6	86
234	Nanopatterning of a Stimuli-Responsive Fluorescent Supramolecular Polymer by Thermal Scanning Probe Lithography. *ACS Applied Materials & Interfaces*, **2017**, 9, 41454-41461	9.5	21
233	50th Anniversary Perspective: Solid-State Multistimuli, Multiresponsive Polymeric Materials. *Macromolecules*, **2017**, 50, 8845-8870	5.5	90
232	Nanodroplet-Containing Polymers for Efficient Low-Power Light Upconversion. *Advanced Materials*, **2017**, 29, 1702992	24	53
231	Bioinspired Polymer Systems with Stimuli-Responsive Mechanical Properties. *Chemical Reviews*, **2017**, 117, 12851-12892	68.1	200
230	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. *ACS Macro Letters*, **2017**, 6, 892-897	6.6	34
229	Asymmetric Cyclophanes Permit Access to Supercooled Nematic Liquid Crystals with Stimulus-Responsive Luminescence. *Chemistry of Materials*, **2017**, 29, 6145-6152	9.6	33
228	Speckle-Visibility Spectroscopy of Depolarized Dynamic Light Scattering. *Journal of Physical Chemistry B*, **2017**, 121, 7999-8007	3.4	10
227	Fabrication and Properties of Polyethylene/Cellulose Nanocrystal Composites. *Macromolecular Materials and Engineering*, **2017**, 302, 1600300	3.9	56

226	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. *Chimia*, **2017**, 71, 376-383	1.3	18
225	Supramolecular polymer adhesives: advanced materials inspired by nature. *Chemical Society Reviews*, **2016**, 45, 342-58	58.5	234
224	Retraction: Framing upconversion materials. *Nature Materials*, **2016**, 16, 153	27	
223	Tuning the thermo- and mechanoresponsive behavior of luminescent cyclophanes. *RSC Advances*, **2016**, 6, 80408-80414	3.7	20
222	Optically responsive supramolecular polymer glasses. *Nature Communications*, **2016**, 7, 10995	17.4	88
221	Mechanoresponsive Luminescent Molecular Assemblies: An Emerging Class of Materials. *Advanced Materials*, **2016**, 28, 1073-95	24	604
220	Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. *Acta Biomaterialia*, **2016**, 29, 81-93	10.8	37
219	A mechano- and thermoresponsive luminescent cyclophane. *Chemical Communications*, **2016**, 52, 5694-7	5.8	35
218	The Role of Mass and Length in the Sonochemistry of Polymers. *Macromolecules*, **2016**, 49, 1630-1636	5.5	52
217	Shape Memory Composites Based on Electrospun Poly(vinyl alcohol) Fibers and a Thermoplastic Polyether Block Amide Elastomer. *ACS Applied Materials & Interfaces*, **2016**, 8, 6701-8	9.5	37
216	Articular cartilage: from formation to tissue engineering. *Biomaterials Science*, **2016**, 4, 734-67	7.4	164
215	Directed cell growth in multi-zonal scaffolds for cartilage tissue engineering. *Biomaterials*, **2016**, 74, 42-52	8.6	94
214	Chapter 12:Mechanically Adaptive Nanocomposites Inspired by Sea Cucumbers. *RSC Polymer Chemistry Series*, **2016**, 402-428	1.3	2
213	Single-Component Upconverting Polymeric Nanoparticles. *Macromolecular Rapid Communications*, **2016**, 37, 826-32	4.8	12
212	Deformation-Induced Color Changes in Melt-Processed Polyamide 12 Blends. *Macromolecular Materials and Engineering*, **2016**, 301, 549-554	3.9	11
211	A Thermo- and Mechanoresponsive Cyano-Substituted Oligo(p-phenylene vinylene) Derivative with Five Emissive States. *Chemistry - A European Journal*, **2016**, 22, 4374-8	4.8	57
210	A critical review of the current knowledge regarding the biological impact of nanocellulose. *Journal of Nanobiotechnology*, **2016**, 14, 78	9.4	141
209	Azo-Containing Polymers with Degradation On-Demand Feature. *Macromolecules*, **2016**, 49, 2917-2927	5.5	28

208	Thermoresponsive low-power light upconverting polymer nanoparticles. *Materials Horizons*, **2016**, 3, 602-607	14.4	32
207	Epoxy Resin-Inspired Reconfigurable Supramolecular Networks. *Macromolecules*, **2016**, 49, 7877-7885	5.5	33
206	Metal-organic frameworks: Framing upconversion materials. *Nature Materials*, **2015**, 14, 864-5	27	10
205	Mechanochemistry in Polymers with Supramolecular Mechanophores. *Topics in Current Chemistry*, **2015**, 369, 345-75		30
204	Healable supramolecular polymer solids. *Progress in Polymer Science*, **2015**, 49-50, 60-78	29.6	97
203	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	25
202	Fate of cellulose nanocrystal aerosols deposited on the lung cell surface in vitro. *Biomacromolecules*, **2015**, 16, 1267-75	6.9	57
201	Influence of Processing Conditions on Properties of Poly (Vinyl acetate)/Cellulose Nanocrystal Nanocomposites. *Macromolecular Materials and Engineering*, **2015**, 300, 562-571	3.9	50
200	Visualization of Polymer Deformation Using Microcapsules Filled with Charge-Transfer Complex Precursors. *ACS Applied Materials & Interfaces*, **2015**, 7, 21828-34	9.5	36
199	Supramolecular Polymer Networks Made by Solvent-Free Copolymerization of a Liquid 2-Ureido-4[1H]-pyrimidinone Methacrylamide. *Macromolecules*, **2015**, 48, 8128-8136	5.5	22
198	Functionalized cellulose nanocrystals as nanocarriers for sustained fragrance release. *Polymer Chemistry*, **2015**, 6, 6553-6562	4.9	19
197	Influence of the nanofiber dimensions on the properties of nanocellulose/poly(vinyl alcohol) aerogels. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	34
196	Cellulose nanocrystal driven crystallization of poly(d,l-lactide) and improvement of the thermomechanical properties. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	36
195	Organogels for low-power light upconversion. *Materials Horizons*, **2015**, 2, 120-124	14.4	81
194	Melt processing of polyamide 12 and cellulose nanocrystals nanocomposites. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	47
193	Shape-Memory Polyurethane Nanocomposites with Single Layer or Bilayer Oleic Acid-Coated Fe3O4 Nanoparticles. *Macromolecular Materials and Engineering*, **2015**, 300, 885-892	3.9	23
192	Supramolecular Cross-Links in Poly(alkyl methacrylate) Copolymers and Their Impact on the Mechanical and Reversible Adhesive Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 13395-404	9.5	71
191	Mechanically adaptive materials for intracortical implants **2015**,		3

190	Progress towards biocompatible intracortical microelectrodes for neural interfacing applications. *Journal of Neural Engineering*, **2015**, 12, 011001	5	232
189	Curcumin-releasing mechanically adaptive intracortical implants improve the proximal neuronal density and blood-brain barrier stability. *Acta Biomaterialia*, **2014**, 10, 2209-22	10.8	91
188	Low-power photon upconversion in organic glasses. *Journal of Materials Chemistry C*, **2014**, 2, 2837-2841	7.1	69
187	Physiologically responsive, mechanically adaptive polymer optical fibers for optogenetics. *Optics Letters*, **2014**, 39, 2872-5	3	15
186	Water-responsive mechanically adaptive nanocomposites based on styrene-butadiene rubber and cellulose nanocrystals--processing matters. *ACS Applied Materials & Interfaces*, **2014**, 6, 967-76	9.5	113
185	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, 6127-38	9.5	425
184	Thermoplastic shape-memory polyurethanes based on natural oils. *Smart Materials and Structures*, **2014**, 23, 025033	3.4	29
183	Isolation of cellulose nanocrystals from pseudostems of banana plants. *RSC Advances*, **2014**, 4, 907-915	3.7	85
182	Influence of mechanical treatments on the properties of cellulose nanofibers isolated from microcrystalline cellulose. *Reactive and Functional Polymers*, **2014**, 85, 134-141	4.6	41
181	Water-insoluble aerogels made from cellulose nanocrystals and poly(vinyl alcohol). *Green Materials*, **2014**, 2, 169-182	3.2	6
180	Photoswitchable nanocomposites made from coumarin-functionalized cellulose nanocrystals. *Polymer Chemistry*, **2014**, 5, 5501	4.9	29
179	Controlled fragrance release from galactose-based pro-fragrances. *RSC Advances*, **2014**, 4, 50882-50890	3.7	11
178	Mechanical and shape-memory properties of poly(mannitol sebacate)/cellulose nanocrystal nanocomposites. *Journal of Polymer Science Part A*, **2014**, 52, 3123-3133	2.5	38
177	Biosensors based on porous cellulose nanocrystal-poly(vinyl alcohol) scaffolds. *ACS Applied Materials & Interfaces*, **2014**, 6, 12674-83	9.5	101
176	Mechanochemistry with metallosupramolecular polymers. *Journal of the American Chemical Society*, **2014**, 136, 10493-8	16.4	176
175	Mechanically-compliant intracortical implants reduce the neuroinflammatory response. *Journal of Neural Engineering*, **2014**, 11, 056014	5	161
174	Light upconversion by triplet–triplet annihilation in diphenylanthracene-based copolymers. *Polymer Chemistry*, **2014**, 5, 6898-6904	4.9	44
173	Light-induced bonding and debonding with supramolecular adhesives. *ACS Applied Materials & Interfaces*, **2014**, 6, 4713-9	9.5	133

172	Isophthalic Acid-Pyridine H-Bonding: Simplicity in the Design of Mechanically Robust Phase-Segregated Supramolecular Polymers.. *ACS Macro Letters*, **2014**, 3, 540-543	6.6	19
171	Light-stimulated mechanically switchable, photopatternable cellulose nanocomposites. *Polymer Chemistry*, **2014**, 5, 5716-5724	4.9	38
170	Reinforcement of Optically Healable Supramolecular Polymers with Cellulose Nanocrystals. *Macromolecules*, **2014**, 47, 152-160	5.5	93
169	Reinforcing Poly(ethylene) with Cellulose Nanocrystals. *Macromolecular Rapid Communications*, **2014**, 35, 1747	4.8	70
168	Microscale Characterization of a Mechanically Adaptive Polymer Nanocomposite With Cotton-Derived Cellulose Nanocrystals for Implantable BioMEMS. *Journal of Microelectromechanical Systems*, **2014**, 23, 774-784	2.5	8
167	Mechanically triggered responses of metallosupramolecular polymers. *Chimia*, **2014**, 68, 666	1.3	2
166	An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. *Particle and Fibre Toxicology*, **2014**, 11, 40	8.4	77
165	Synthesis of poly(sulfonate ester)s by ADMET polymerization. *RSC Advances*, **2014**, 4, 53967-53974	3.7	14
164	Preparation of Cellulose Nanocrystal/Polymer Nanocomposites via Sol-Gel Processes. *Materials and Energy*, **2014**, 23-34		
163	Functional Iron Oxide Nanoparticles as Reversible Crosslinks for Magnetically Addressable Shape-Memory Polymers. *Macromolecular Chemistry and Physics*, **2014**, 215, 398-404	2.6	23
162	Supramolecular Polymers with Orthogonal Functionality. *Macromolecules*, **2014**, 47, 8487-8496	5.5	24
161	Melt-processed polymer glasses for low-power upconversion via sensitized triplet□triplet annihilation. *Journal of Materials Chemistry C*, **2013**, 1, 5142	7.1	52
160	Bionanocomposites: differential effects of cellulose nanocrystals on protein diblock copolymers. *Biomacromolecules*, **2013**, 14, 4360-7	6.9	38
159	Shape-memory bionanocomposites based on chitin nanocrystals and thermoplastic polyurethane with a highly crystalline soft segment. *Biomacromolecules*, **2013**, 14, 4475-82	6.9	71
158	Optically healable polymers. *Chemical Society Reviews*, **2013**, 42, 7278-88	58.5	150
157	Light-Healable Supramolecular Nanocomposites Based on Modified Cellulose Nanocrystals.. *ACS Macro Letters*, **2013**, 2, 236-240	6.6	169
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