

Christoph Weder

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333
papers

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366
ext. papers

25,327
ext. citations

8.6
avg, IF

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L-index

#	Paper	IF	Citations
333	Review: current international research into cellulose nanofibres and nanocomposites. <i>Journal of Materials Science</i> , 2010 , 45, 1-33	4.3	1760
332	Optically healable supramolecular polymers. <i>Nature</i> , 2011 , 472, 334-7	50.4	1355
331	Stimuli-responsive polymer nanocomposites inspired by the sea cucumber dermis. <i>Science</i> , 2008 , 319, 1370-4	33.3	765
330	Mechanoresponsive Luminescent Molecular Assemblies: An Emerging Class of Materials. <i>Advanced Materials</i> , 2016 , 28, 1073-95	24	604
329	Isolation of thermally stable cellulose nanocrystals by phosphoric acid hydrolysis. <i>Biomacromolecules</i> , 2013 , 14, 1223-30	6.9	428
328	Comparison of the properties of cellulose nanocrystals and cellulose nanofibrils isolated from bacteria, tunicate, and wood processed using acid, enzymatic, mechanical, and oxidative methods. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6127-38	9.5	425
327	Oligo(p-phenylene vinylene)s as a New Class of Piezochromic Fluorophores. <i>Advanced Materials</i> , 2008 , 20, 119-122	24	375
326	A versatile approach for the processing of polymer nanocomposites with self-assembled nanofibre templates. <i>Nature Nanotechnology</i> , 2007 , 2, 765-9	28.7	364
325	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. <i>Environmental Science & Technology</i> , 2019 , 53, 1748-1765	10.3	356
324	Low-power photon upconversion through triplet-triplet annihilation in polymers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20817		335
323	Efficient Solid-State Photoluminescence in New Poly(2,5-dialkoxy-p-phenyleneethynylene)s. <i>Macromolecules</i> , 1996 , 29, 5157-5165	5.5	292
322	Oligo(p-phenylene vinylene) Excimers as Molecular Probes: Deformation-Induced Color Changes in Photoluminescent Polymer Blends. <i>Advanced Materials</i> , 2002 , 14, 1625-1629	24	287
321	Incorporation of photoluminescent polarizers into liquid crystal displays. <i>Science</i> , 1998 , 279, 835-7	33.3	286
320	Bioinspired Mechanically Adaptive Polymer Nanocomposites with Water-Activated Shape-Memory Effect. <i>Macromolecules</i> , 2011 , 44, 6827-6835	5.5	275
319	Noncoherent low-power upconversion in solid polymer films. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12652-3	16.4	274
318	Deformation-Induced Color Changes in Melt-Processed Photoluminescent Polymer Blends. <i>Chemistry of Materials</i> , 2003 , 15, 4717-4724	9.6	237
317	Polarizing energy transfer in photoluminescent materials for display applications. <i>Nature</i> , 1998 , 392, 261-264	50.4	235

3 ¹⁶	Supramolecular polymer adhesives: advanced materials inspired by nature. <i>Chemical Society Reviews</i> , 2016 , 45, 342-58	58.5	234
3 ¹⁵	Progress towards biocompatible intracortical microelectrodes for neural interfacing applications. <i>Journal of Neural Engineering</i> , 2015 , 12, 011001	5	232
3 ¹⁴	Preparation of homogeneous dispersions of tunicate cellulose whiskers in organic solvents. <i>Biomacromolecules</i> , 2007 , 8, 1353-7	6.9	224
3 ¹³	Polymer nanocomposites with nanowhiskers isolated from microcrystalline cellulose. <i>Biomacromolecules</i> , 2009 , 10, 712-6	6.9	222
3 ¹²	Fluorescent sensors for the detection of chemical warfare agents. <i>Chemistry - A European Journal</i> , 2007 , 13, 7828-36	4.8	208
3 ¹¹	Cellulose whisker/epoxy resin nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1073-80	9.5	206
3 ¹⁰	pH-Responsive Cellulose Nanocrystal Gels and Nanocomposites. <i>ACS Macro Letters</i> , 2012 , 1, 1001-1006	6.6	205
3 ⁰⁹	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1584-1587	16.4	204
3 ⁰⁸	Shape memory polymers with built-in threshold temperature sensors. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1082		201
3 ⁰⁷	Bioinspired Polymer Systems with Stimuli-Responsive Mechanical Properties. <i>Chemical Reviews</i> , 2017 , 117, 12851-12892	68.1	200
3 ⁰⁶	Fluorescent organometallic sensors for the detection of chemical-warfare-agent mimics. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5825-9	16.4	188
3 ⁰⁵	Mechanochemistry with metallosupramolecular polymers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10493-8	16.4	176
3 ⁰⁴	Light-Healable Supramolecular Nanocomposites Based on Modified Cellulose Nanocrystals.. <i>ACS Macro Letters</i> , 2013 , 2, 236-240	6.6	169
3 ⁰³	Biomimetic mechanically adaptive nanocomposites. <i>Progress in Polymer Science</i> , 2010 , 35, 212-222	29.6	169
3 ⁰²	Polyesters with Built-in Threshold Temperature and Deformation Sensors. <i>Chemistry of Materials</i> , 2006 , 18, 946-955	9.6	169
3 ⁰¹	Investigating the interaction of cellulose nanofibers derived from cotton with a sophisticated 3D human lung cell coculture. <i>Biomacromolecules</i> , 2011 , 12, 3666-73	6.9	165
3 ⁰⁰	Deformation-Induced Color Changes in Mechanochromic Polyethylene Blends. <i>Macromolecules</i> , 2007 , 40, 2400-2408	5.5	165
299	Articular cartilage: from formation to tissue engineering. <i>Biomaterials Science</i> , 2016 , 4, 734-67	7.4	164

298	Mechanically-compliant intracortical implants reduce the neuroinflammatory response. <i>Journal of Neural Engineering</i> , 2014 , 11, 056014	5	161
297	Optically healable polymers. <i>Chemical Society Reviews</i> , 2013 , 42, 7278-88	58.5	150
296	Influence of temperature on low-power upconversion in rubbery polymer blends. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12007-14	16.4	150
295	Natural biopolymers: novel templates for the synthesis of nanostructures. <i>Langmuir</i> , 2010 , 26, 8497-5024		148
294	Mechano- and Thermo-responsive Photoluminescent Supramolecular Polymer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4302-4305	16.4	146
293	Bio-inspired mechanically-adaptive nanocomposites derived from cotton cellulose whiskers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 180-186		146
292	Mechanically adaptive intracortical implants improve the proximity of neuronal cell bodies. <i>Journal of Neural Engineering</i> , 2011 , 8, 066011	5	143
291	A critical review of the current knowledge regarding the biological impact of nanocellulose. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 78	9.4	141
290	Light-induced bonding and debonding with supramolecular adhesives. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4713-9	9.5	133
289	Grafting Polymers from Cellulose Nanocrystals: Synthesis, Properties, and Applications. <i>Macromolecules</i> , 2018 , 51, 6157-6189	5.5	130
288	Clay aerogel/cellulose whisker nanocomposites: a nanoscale wattle and daub. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2118		130
287	Stimuli-responsive mechanically adaptive polymer nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 165-74	9.5	124
286	Water-Triggered Modulus Changes of Cellulose Nanofiber Nanocomposites with Hydrophobic Polymer Matrices. <i>Macromolecules</i> , 2012 , 45, 4707-4715	5.5	122
285	Liquid crystalline nanowires in porous alumina: geometric confinement versus influence of pore walls. <i>Nano Letters</i> , 2005 , 5, 429-34	11.5	119
284	In vivo deployment of mechanically adaptive nanocomposites for intracortical microelectrodes. <i>Journal of Neural Engineering</i> , 2011 , 8, 046010	5	117
283	Stimuli-responsive, mechanically-adaptive polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2812-2822		115
282	Water-responsive mechanically adaptive nanocomposites based on styrene-butadiene rubber and cellulose nanocrystals--processing matters. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 967-76	9.5	113
281	Self-Assessing Photoluminescent Polyurethanes. <i>Macromolecules</i> , 2006 , 39, 9581-9589	5.5	109

280	Approaches to polymeric mechanochromic materials. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 640-652.5	106
279	Stress transfer in cellulose nanowhisker composites--influence of whisker aspect ratio and surface charge. <i>Biomacromolecules</i> , 2011 , 12, 1363-9	106
278	Polymeric Light-Emitting Diodes Based on Poly(p-phenylene ethynylene), Poly(triphenyldiamine), and Spiroquinoxaline. <i>Advanced Functional Materials</i> , 2001 , 11, 41-46	104
277	Physiologically responsive, mechanically adaptive bio-nanocomposites for biomedical applications. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1517-26	102
276	Biosensors based on porous cellulose nanocrystal-poly(vinyl alcohol) scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12674-83	101
275	Reinforcement of stereolithographic resins for rapid prototyping with cellulose nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5399-407	101
274	Hole control in microporous polymers. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 448-50	101
273	Healable supramolecular polymer solids. <i>Progress in Polymer Science</i> , 2015 , 49-50, 60-78	97
272	Stress-transfer in anisotropic and environmentally adaptive cellulose whisker nanocomposites. <i>Biomacromolecules</i> , 2010 , 11, 762-8	97
271	Solid polymer electrolytes based on nanocomposites of ethylene oxide-pichlorohydrin copolymers and cellulose whiskers. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2883-2888	95
270	Directed cell growth in multi-zonal scaffolds for cartilage tissue engineering. <i>Biomaterials</i> , 2016 , 74, 42-52.6	94
269	Reinforcement of Optically Healable Supramolecular Polymers with Cellulose Nanocrystals. <i>Macromolecules</i> , 2014 , 47, 152-160	93
268	Phase Separation of Excimer-Forming Fluorescent Dyes and Amorphous Polymers: A Versatile Mechanism for Sensor Applications. <i>Advanced Materials</i> , 2005 , 17, 1471-1476	92
267	Curcumin-releasing mechanically adaptive intracortical implants improve the proximal neuronal density and blood-brain barrier stability. <i>Acta Biomaterialia</i> , 2014 , 10, 2209-22	91
266	Synthesis and optical properties of metallo-supramolecular polymers. <i>Chemical Communications</i> , 2005 , 319-21	91
265	50th Anniversary Perspective: Solid-State Multistimuli, Multiresponsive Polymeric Materials. <i>Macromolecules</i> , 2017 , 50, 8845-8870	90
264	Optical power limiting and stabilization based on a novel polymer compound. <i>IEEE Journal of Quantum Electronics</i> , 1998 , 34, 2279-2285	90
263	Synthesis and Properties of Metallo-Supramolecular Poly(p-phenylene ethynylene)s. <i>Macromolecules</i> , 2006 , 39, 651-657	90

262	Synthesis and characterization of cross-linked conjugated polymer milli-, micro-, and nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1808-11	16.4	89
261	Optically responsive supramolecular polymer glasses. <i>Nature Communications</i> , 2016 , 7, 10995	17.4	88
260	Nanocomposites based on cellulose whiskers and (semi)conducting conjugated polymers. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2746		88
259	Temperature-Dependent Mechanochromic Behavior of Mechanoresponsive Luminescent Compounds. <i>Chemistry of Materials</i> , 2017 , 29, 1273-1278	9.6	86
258	Isolation of cellulose nanocrystals from pseudostems of banana plants. <i>RSC Advances</i> , 2014 , 4, 907-915	3.7	85
257	Poly(p-phenylene ethynylene)-based light-emitting devices. <i>Synthetic Metals</i> , 1998 , 97, 123-126	3.6	85
256	Uniaxial Orientation of Columnar Discotic Liquid Crystals. <i>Chemistry of Materials</i> , 2002 , 14, 2218-2223	9.6	85
255	Organogels for low-power light upconversion. <i>Materials Horizons</i> , 2015 , 2, 120-124	14.4	81
254	Highly polarized luminescence from oriented conjugated polymer/polyethylene blend films. <i>Advanced Materials</i> , 1997 , 9, 1035-1039	24	81
253	An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 40	8.4	77
252	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. <i>ACS Central Science</i> , 2019 , 5, 874-881	16.8	76
251	Mechanically adaptive nanocomposites for neural interfacing. <i>MRS Bulletin</i> , 2012 , 37, 581-589	3.2	75
250	Metallo-Supramolecular Polymerization: A Route to Easy-To-Process Organic/Inorganic Hybrid Materials. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007 , 17, 91-103	3.2	75
249	Self-Assembly and Dispersion of Chromogenic Molecules: A Versatile and General Approach for Self-Assessing Polymers. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1981-1987	4.8	73
248	Triggered Metal Ion Release and Oxidation: Ferrocene as a Mechanophore in Polymers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11445-11450	16.4	71
247	Shape-memory bionanocomposites based on chitin nanocrystals and thermoplastic polyurethane with a highly crystalline soft segment. <i>Biomacromolecules</i> , 2013 , 14, 4475-82	6.9	71
246	Supramolecular Cross-Links in Poly(alkyl methacrylate) Copolymers and Their Impact on the Mechanical and Reversible Adhesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13395-404	8.5	71
245	Reinforcing Poly(ethylene) with Cellulose Nanocrystals. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1747	4.8	70

244	Preparation of nanocomposites of polyaniline and inorganic semiconductors. <i>Journal of Materials Chemistry</i> , 2001 , 11, 2465-2469		70
243	Low-power photon upconversion in organic glasses. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2837-28417.1		69
242	Self-assembly of chromogenic dyes— new mechanism for humidity sensors. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2989-2991		69
241	High charge carrier mobility in conjugated organometallic polymer networks. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9978-9	16.4	69
240	Development of a stimuli-responsive polymer nanocomposite toward biologically optimized, MEMS-based neural probes. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 054009	2	68
239	Synthesis, processing and properties of conjugated polymer networks. <i>Chemical Communications</i> , 2005 , 5378-89	5.8	67
238	Two-photon 3D optical data storage via aggregate switching of excimer-forming dyes. <i>Advanced Materials</i> , 2011 , 23, 2425-9	24	66
237	Organometallic Networks Based on 2,2'-Bipyridine-Containing Poly(p-phenylene ethynylene)s. <i>Macromolecules</i> , 2005 , 38, 3800-3807	5.5	65
236	A Simple and Versatile Strategy To Improve the Mechanical Properties of Polymer Nanocomposites with Cellulose Nanocrystals. <i>Macromolecules</i> , 2017 , 50, 2364-2374	5.5	62
235	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. <i>Polymer Chemistry</i> , 2017 , 8, 2115-2122	4.9	62
234	Self-Calibrating Mechanochromic Fluorescent Polymers Based on Encapsulated Excimer-Forming Dyes. <i>Advanced Materials</i> , 2018 , 30, e1704603	24	62
233	Fate of cellulose nanocrystal aerosols deposited on the lung cell surface in vitro. <i>Biomacromolecules</i> , 2015 , 16, 1267-75	6.9	57
232	Melt-processed all-polymer distributed Bragg reflector laser. <i>Optics Express</i> , 2008 , 16, 10358-63	3.3	57
231	A Thermo- and Mechanoresponsive Cyano-Substituted Oligo(p-phenylene vinylene) Derivative with Five Emissive States. <i>Chemistry - A European Journal</i> , 2016 , 22, 4374-8	4.8	57
230	Fabrication and Properties of Polyethylene/Cellulose Nanocrystal Composites. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600300	3.9	56
229	Decoupling Optical Properties in Metallo-Supramolecular Poly(p-phenylene ethynylene)s. <i>Macromolecules</i> , 2008 , 41, 2157-2163	5.5	55
228	Nanodroplet-Containing Polymers for Efficient Low-Power Light Upconversion. <i>Advanced Materials</i> , 2017 , 29, 1702992	24	53
227	The Role of Mass and Length in the Sonochemistry of Polymers. <i>Macromolecules</i> , 2016 , 49, 1630-1636	5.5	52

226	Melt-processed polymer glasses for low-power upconversion via sensitized triplet-triplet annihilation. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5142	7.1	52
225	Influence of Processing Conditions on Properties of Poly (Vinyl acetate)/Cellulose Nanocrystal Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 562-571	3.9	50
224	Luminescent Mechanochromic Sensors Based on Poly(vinylidene fluoride) and Excimer-Forming p-Phenylene Vinylene Dyes. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 28-34	2.6	49
223	Threshold Temperature Sensors with Tunable Properties. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 572-580	2.6	49
222	Low-power upconversion in dye-doped polymer nanoparticles. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 498-502	4.8	48
221	Melt processing of polyamide 12 and cellulose nanocrystals nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	47
220	Roll-to-roll fabrication of multilayer films for high capacity optical data storage. <i>Advanced Materials</i> , 2012 , 24, 5222-6, 5146	24	47
219	Synthesis and Properties of Metallo-Supramolecular Poly(p-xylylene)s. <i>Macromolecules</i> , 2006 , 39, 4069-4075	4.5	47
218	Patterning of Oriented Photofunctional Polymer Systems Through Selective Photobleaching. <i>Advanced Functional Materials</i> , 2001 , 11, 31-35	15.6	47
217	Continuous melt processing of all-polymer distributed feedback lasers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7520		46
216	Liquid crystalline, highly luminescent poly(2,5-dialkoxy-p-phenyleneethynylene). <i>Macromolecular Rapid Communications</i> , 1997 , 18, 643-649	4.8	45
215	Light upconversion by triplet-triplet annihilation in diphenylanthracene-based copolymers. <i>Polymer Chemistry</i> , 2014 , 5, 6898-6904	4.9	44
214	Polymer Nanocomposites with Cellulose Nanocrystals Featuring Adaptive Surface Groups. <i>Biomacromolecules</i> , 2017 , 18, 517-525	6.9	43
213	Binary Cellulose Nanocrystal Blends for Bioinspired Damage Tolerant Photonic Films. <i>Advanced Functional Materials</i> , 2018 , 28, 1800032	15.6	41
212	Influence of mechanical treatments on the properties of cellulose nanofibers isolated from microcrystalline cellulose. <i>Reactive and Functional Polymers</i> , 2014 , 85, 134-141	4.6	41
211	Tensile Orientation Behavior of Alkoxy-Substituted Bis(phenylethynyl)benzene Derivatives in Polyolefin Blend Films. <i>Chemistry of Materials</i> , 2000 , 12, 472-480	9.6	41
210	(De)bonding on Demand with Optically Switchable Adhesives. <i>Advanced Optical Materials</i> , 2019 , 7, 1900230	23.0	40
209	Effect of the Solid State Structure on the Third-Order Nonlinear Optical Response of Poly(2,5-dialkoxy-p-phenyleneethynylene)s. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18931-18936		40

208	Complexation of unsaturated carbon-carbon bonds in pi-conjugated polymers with transition metals. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3857-63	16.4	40
207	New Polyamides with Large Second-Order Nonlinear Optical Properties. <i>Macromolecules</i> , 1994 , 27, 2181-2186	5.5	40
206	Chemical Modification of Reducing End-Groups in Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 66-87	16.4	39
205	Mechanical and shape-memory properties of poly(mannitol sebacate)/cellulose nanocrystal nanocomposites. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 3123-3133	2.5	38
204	Light-stimulated mechanically switchable, photopatternable cellulose nanocomposites. <i>Polymer Chemistry</i> , 2014 , 5, 5716-5724	4.9	38
203	Bionanocomposites: differential effects of cellulose nanocrystals on protein diblock copolymers. <i>Biomacromolecules</i> , 2013 , 14, 4360-7	6.9	38
202	Temperature indicators for high temperature applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 104-110		38
201	Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. <i>Acta Biomaterialia</i> , 2016 , 29, 81-93	10.8	37
200	Shape Memory Composites Based on Electrospun Poly(vinyl alcohol) Fibers and a Thermoplastic Polyether Block Amide Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6701-8	9.5	37
199	Electronic Properties of PAEs. <i>Advances in Polymer Science</i> , 2005 , 209-248	1.3	37
198	Visualization of Polymer Deformation Using Microcapsules Filled with Charge-Transfer Complex Precursors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21828-34	9.5	36
197	Cellulose nanocrystal driven crystallization of poly(d,l-lactide) and improvement of the thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	36
196	Electrical conductivity and mechanical properties of polyaniline/natural rubber composite fibers. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 4038-4046	2.9	36
195	Terahertz Photonic Crystals Based on Barium Titanate/Polymer Nanocomposites. <i>Advanced Materials</i> , 2008 , 20, 3649-3653	24	36
194	Morphology of Polymer/Liquid-Crystal Nanotubes: Influence of Confinement. <i>Advanced Functional Materials</i> , 2005 , 15, 1656-1664	15.6	36
193	New polyamides with long alkane segments: nylon 6.24 and 6.34. <i>Polymer</i> , 2000 , 41, 3531-3539	3.9	36
192	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216	2.6	36
191	A mechano- and thermoresponsive luminescent cyclophane. <i>Chemical Communications</i> , 2016 , 52, 5694-758	5.8	35

190	Influence of the nanofiber dimensions on the properties of nanocellulose/poly(vinyl alcohol) aerogels. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	34
189	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. <i>ACS Macro Letters</i> , 2017 , 6, 892-897	6.6	34
188	Thermally activated shape memory behavior of melt-mixed polyurethane/cellulose nanocrystal composites. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45033	2.9	33
187	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24571-24576	9.5	33
186	Asymmetric Cyclophanes Permit Access to Supercooled Nematic Liquid Crystals with Stimulus-Responsive Luminescence. <i>Chemistry of Materials</i> , 2017 , 29, 6145-6152	9.6	33
185	Self-assembly and alignment of semiconductor nanoparticles on cellulose nanocrystals. <i>Journal of Materials Science</i> , 2011 , 46, 5672-5679	4.3	33
184	Epoxy Resin-Inspired Reconfigurable Supramolecular Networks. <i>Macromolecules</i> , 2016 , 49, 7877-7885	5.5	33
183	Polymer nanocomposites with nanorods having different length distributions. <i>Polymer</i> , 2017 , 110, 284-294	3.9	32
182	Multistimuli, Multiresponsive Fully Supramolecular Orthogonally Bound Polymer Networks. <i>Macromolecules</i> , 2018 , 51, 5867-5874	5.5	32
181	Photopatternable Reflective Films Produced by Nanolayer Extrusion. <i>Advanced Functional Materials</i> , 2004 , 14, 595-604	15.6	32
180	Thermoresponsive low-power light upconverting polymer nanoparticles. <i>Materials Horizons</i> , 2016 , 3, 602-607	14.4	32
179	Stimuli-responsive epoxy coatings. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 688-96	9.5	31
178	Mechanochemistry in Polymers with Supramolecular Mechanophores. <i>Topics in Current Chemistry</i> , 2015 , 369, 345-75		30
177	Synthesis, electrical properties, and nanocomposites of poly(3,4-ethylenedioxythiophene) nanorods. <i>Polymer Chemistry</i> , 2010 , 1, 1237	4.9	30
176	Ultra-high performance photoluminescent polarizers based on melt-processed polymer blends. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2221-2226		30
175	From Molecules to Polymers-Harnessing Inter- and Intramolecular Interactions to Create Mechanochromic Materials. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000573	4.8	30
174	Microcapsule-Containing Self-Reporting Polymers. <i>Small</i> , 2018 , 14, e1802489	11	30
173	Tailoring the Properties of a Shape-Memory Polyurethane via Nanocomposite Formation and Nucleation. <i>Macromolecules</i> , 2018 , 51, 1841-1849	5.5	29

172	Thermoplastic shape-memory polyurethanes based on natural oils. <i>Smart Materials and Structures</i> , 2014 , 23, 025033	3.4	29
171	Photoswitchable nanocomposites made from coumarin-functionalized cellulose nanocrystals. <i>Polymer Chemistry</i> , 2014 , 5, 5501	4.9	29
170	Synthesis and optical properties of novel poly(p-phenylene ethynylene)s. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 192-198	2.6	29
169	Fluorescent Organometallic Sensors for the Detection of Chemical-Warfare-Agent Mimics. <i>Angewandte Chemie</i> , 2006 , 118, 5957-5961	3.6	28
168	Azo-Containing Polymers with Degradation On-Demand Feature. <i>Macromolecules</i> , 2016 , 49, 2917-2927	5.5	28
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