Olli Ikkala

List of Publications by Citations

308 papers	23,870 citations	79 h-index	145 g-index
331 ext. papers	25,860 ext. citations	8.5 avg, IF	6.91 L-index

#	Paper	IF	Citations
308	Enzymatic hydrolysis combined with mechanical shearing and high-pressure homogenization for nanoscale cellulose fibrils and strong gels. *Biomacromolecules*, **2007**, 8, 1934-41	6.9	1450
307	Functional materials based on self-assembly of polymeric supramolecules. *Science*, **2002**, 295, 2407-9	33.3	904
306	Mechanically durable superhydrophobic surfaces. *Advanced Materials*, **2011**, 23, 673-8	24	777
305	Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates. *Nature Nanotechnology*, **2010**, 5, 584-8	28.7	684
304	Hydrophobic nanocellulose aerogels as floating, sustainable, reusable, and recyclable oil absorbents. *ACS Applied Materials & Interfaces*, **2011**, 3, 1813-6	9.5	654
303	Switching supramolecular polymeric materials with multiple length scales. *Science*, **1998**, 280, 557-60	33.3	596
302	Long and entangled native cellulose I nanofibers allow flexible aerogels and hierarchically porous templates for functionalities. *Soft Matter*, **2008**, 4, 2492	3.6	533
301	Large-area, lightweight and thick biomimetic composites with superior material properties via fast, economic, and green pathways. *Nano Letters*, **2010**, 10, 2742-8	11.5	385
300	Strong and tough cellulose nanopaper with high specific surface area and porosity. *Biomacromolecules*, **2011**, 12, 3638-44	6.9	373
299	Hierarchical self-assembly in polymeric complexes: towards functional materials. *Chemical Communications*, **2004**, 2131-7	5.8	369
298	Advanced Materials through Assembly of Nanocelluloses. *Advanced Materials*, **2018**, 30, e1703779	24	340
297	Clay nanopaper with tough cellulose nanofiber matrix for fire retardancy and gas barrier functions. *Biomacromolecules*, **2011**, 12, 633-41	6.9	334
296	Color tunability and electrochemiluminescence of silver nanoclusters. *Angewandte Chemie - International Edition*, **2009**, 48, 2122-5	16.4	333
295	Switchable static and dynamic self-assembly of magnetic droplets on superhydrophobic surfaces. *Science*, **2013**, 341, 253-7	33.3	317
294	Nanofibrillar cellulose hydrogel promotes three-dimensional liver cell culture. *Journal of Controlled Release*, **2012**, 164, 291-8	11.7	293
293	Supramolecular Routes to Hierarchical Structures: Comb-Coil Diblock Copolymers Organized with Two Length Scales. *Macromolecules*, **1999**, 32, 1152-1158	5.5	271
292	Inorganic hollow nanotube aerogels by atomic layer deposition onto native nanocellulose templates. *ACS Nano*, **2011**, 5, 1967-74	16.7	265

291	Superhydrophobic and superoleophobic nanocellulose aerogel membranes as bioinspired cargo carriers on water and oil. *Langmuir*, **2011**, 27, 1930-4	4	257
290	Supramolecular Polymeric Materials with Hierarchical Structure-Within-Structure Morphologies. *Advanced Materials*, **1999**, 11, 777-780	24	234
289	Mesomorphic Structures in Flexible Polymer Surfactant Systems Due to Hydrogen Bonding: Poly(4-vinylpyridine) Pentadecylphenol. *Macromolecules*, **1996**, 29, 3409-3415	5.5	223
288	Photoswitchable Superabsorbency Based on Nanocellulose Aerogels. *Advanced Functional Materials*, **2011**, 21, 510-517	15.6	218
287	In vitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. *Biomaterials*, **2017**, 121, 97-108	15.6	217
286	Modifying native nanocellulose aerogels with carbon nanotubes for mechanoresponsive conductivity and pressure sensing. *Advanced Materials*, **2013**, 25, 2428-32	24	217
285	Reversible switching between superhydrophobic states on a hierarchically structured surface. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 10210-3	11.5	215
284	Droplet and Fluid Gating by Biomimetic Janus Membranes. *Advanced Functional Materials*, **2014**, 24, 6023-6028	15.6	211
283	Multifunctional high-performance biofibers based on wet-extrusion of renewable native cellulose nanofibrils. *Advanced Materials*, **2011**, 23, 2924-8	24	205
282	Self-assembled polymeric solid films with temperature-induced large and reversible photonic-bandgap switching. *Nature Materials*, **2004**, 3, 872-6	27	204
281	Healable, Stable and Stiff Hydrogels: Combining Conflicting Properties Using Dynamic and Selective Three-Component Recognition with Reinforcing Cellulose Nanorods. *Advanced Functional Materials*, **2014**, 24, 2706-2713	15.6	197
280	Supramolecular control of stiffness and strength in lightweight high-performance nacre-mimetic paper with fire-shielding properties. *Angewandte Chemie - International Edition*, **2010**, 49, 6448-53	16.4	191
279	SEM imaging of chiral nematic films cast from cellulose nanocrystal suspensions. *Cellulose*, **2012**, 19, 1599-1605	5.5	186
278	Superhydrophobic tracks for low-friction, guided transport of water droplets. *Advanced Materials*, **2011**, 23, 2911-4	24	179
277	Mesomorphic State of Poly(vinylpyridine)-Dodecylbenzenesulfonic Acid Complexes in Bulk and in Xylene Solution. *Macromolecules*, **1995**, 28, 7088-7094	5.5	165
276	Templating organic semiconductors via self-assembly of polymer colloids. *Science*, **2003**, 299, 1872-4	33.3	163
275	Preservation of superhydrophobic and superoleophobic properties upon wear damage. *ACS Applied Materials & Interfaces*, **2013**, 5, 485-8	9.5	162
274	Counter-ion induced processibility of polyaniline: Conducting melt processible polymer blends. *Synthetic Metals*, **1995**, 69, 97-100	3.6	159

273	Self-Assembled Structures in Diblock Copolymers with Hydrogen-Bonded Amphiphilic Plasticizing Compounds. *Macromolecules*, **2006**, 39, 9327-9336	5.5	152
272	Supramolecular Materials Based On Hydrogen-Bonded Polymers. *Advances in Polymer Science*, **2007**, 113-177	1.3	150
271	On the molecular recognition and associations between electrically conducting polyaniline and solvents. *Journal of Chemical Physics*, **1995**, 103, 9855-9863	3.9	141
270	Thermoresponsive Nanocellulose Hydrogels with Tunable Mechanical Properties.. *ACS Macro Letters*, **2014**, 3, 266-270	6.6	135
269	Direct Imaging of Self-Organized Comb Copolymer-like Systems Obtained by Hydrogen Bonding: Poly(4-vinylpyridine)/4-Nonadecylphenol. *Macromolecules*, **1998**, 31, 3532-3536	5.5	135
268	Functional Porous Structures Based on the Pyrolysis of Cured Templates of Block Copolymer and Phenolic Resin. *Advanced Materials*, **2006**, 18, 201-205	24	134
267	Phase Behavior and Temperature-Responsive Molecular Filters Based on Self-Assembly of Polystyrene-block-poly(N-isopropylacrylamide)-block-polystyrene. *Macromolecules*, **2007**, 40, 5827-5834	5.5	133
266	Architecturally induced multiresponsive vesicles from well-defined polypeptides: formation of gene vehicles. *Biomacromolecules*, **2007**, 8, 2173-81	6.9	133
265	Hairy Tubes: Mesoporous Materials Containing Hollow Self-Organized Cylinders with Polymer Brushes at the Walls. *Advanced Materials*, **2001**, 13, 117-121	24	132
264	Poly(4-vinyl pyridine)/Zinc Dodecyl Benzene Sulfonate Mesomorphic State Due to Coordination Complexation. *Macromolecules*, **1995**, 28, 7779-7784	5.5	131
263	Polyelectrolyte brushes grafted from cellulose nanocrystals using Cu-mediated surface-initiated controlled radical polymerization. *Biomacromolecules*, **2011**, 12, 2997-3006	6.9	125
262	Genetic engineering of biomimetic nanocomposites: diblock proteins, graphene, and nanofibrillated cellulose. *Angewandte Chemie - International Edition*, **2011**, 50, 8688-91	16.4	125
261	Hollow Inorganic Nanospheres and Nanotubes with Tunable Wall Thicknesses by Atomic Layer Deposition on Self-Assembled Polymeric Templates. *Advanced Materials*, **2007**, 19, 102-106	24	118
260	Effects of compatibilizers on the properties of polyamide/polypropylene blends. *Polymer Engineering and Science*, **1992**, 32, 868-877	2.3	117
259	Rational design of ABC triblock terpolymer solution nanostructures with controlled patch morphology. *Nature Communications*, **2016**, 7, 12097	17.4	116
258	Ambient-Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. *Advanced Functional Materials*, **2015**, 25, 6618-6626	15.6	115
257	Phase Behavior of Solvent Vapor Annealed Thin Films of PS-b-P4VP(PDP) Supramolecules. *Macromolecules*, **2008**, 41, 3199-3208	5.5	114
256	Human stem cell decorated nanocellulose threads for biomedical applications. *Biomaterials*, **2016**, 82, 208-20	15.6	113

255	Elasticity of Comb Copolymer Cylindrical Brushes. *Macromolecules*, **2000**, 33, 3447-3452	5.5	110
254	Water-resistant, transparent hybrid nanopaper by physical cross-linking with chitosan. *Biomacromolecules*, **2015**, 16, 1062-71	6.9	109
253	Functionalization of nanofibrillated cellulose with silver nanoclusters: fluorescence and antibacterial activity. *Macromolecular Bioscience*, **2011**, 11, 1185-91	5.5	109
252	On lyotropic behavior of molecular bottle-brushes: A Monte Carlo computer simulation study. *Journal of Chemical Physics*, **1997**, 107, 3267-3276	3.9	109
251	Structural hierarchy in molecular films of two class II hydrophobins. *Biochemistry*, **2003**, 42, 5253-8	3.2	109
250	Facile method for stiff, tough, and strong nanocomposites by direct exfoliation of multilayered graphene into native nanocellulose matrix. *Biomacromolecules*, **2012**, 13, 1093-9	6.9	107
249	Generic method for modular surface modification of cellulosic materials in aqueous medium by sequential "click" reaction and adsorption. *Biomacromolecules*, **2012**, 13, 736-42	6.9	105
248	Polymer–Dye Complexes: A Facile Method for High Doping Level and Aggregation Control of Dye Molecules. *Chemistry of Materials*, **2005**, 17, 5798-5802	9.6	104
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246	Reliable measurement of the receding contact angle. *Langmuir*, **2013**, 29, 3858-63	4	103
245	Hydrogen-Bonded Polymer–Azobenzene Complexes: Enhanced Photoinduced Birefringence with High Temporal Stability through Interplay of Intermolecular Interactions. *Chemistry of Materials*, **2008**, 20, 6358-6363	9.6	103
244	Optically triggered release of DNA from multivalent dendrons by degrading and charge-switching multivalency. *Angewandte Chemie - International Edition*, **2007**, 46, 7600-4	16.4	99
243	Order–Disorder Transition in Comblike Block Copolymers Obtained by Hydrogen Bonding between Homopolymers and End-Functionalized Oligomers: Poly(4-vinylpyridine)–Pentadecylphenol. *Macromolecules*, **1997**, 30, 2002-2007	5.5	97
242	Hierarchical Porosity in Self-Assembled Polymers: Post-Modification of Block Copolymer–Phenolic Resin Complexes by Pyrolysis Allows the Control of Micro- and Mesoporosity. *Advanced Functional Materials*, **2007**, 17, 183-190	15.6	96
241	Control of Self-Assembly by Charge-Transfer Complexation between C60 Fullerene and Electron Donating Units of Block Copolymers. *Macromolecules*, **2006**, 39, 7648-7653	5.5	95
240	Critical Interaction Strength for Surfactant-Induced Mesomorphic Structures in Polymer–Surfactant Systems. *Macromolecules*, **1996**, 29, 6621-6628	5.5	94
239	Aggregation and self-assembly of hydrophobins from Trichoderma reesei: low-resolution structural models. *Biophysical Journal*, **2002**, 83, 2240-7	2.9	93
238	Molecular Recognition Solvents for Electrically Conductive Polyaniline. *Macromolecules*, **1996**, 29, 2945-2953	5.5	90

237	Fullerene-based bistable devices and associated negative differential resistance effect. *Organic Electronics*, **2005**, 6, 188-192	3.5	88
236	Nanoscale Conducting Cylinders Based on Self-Organization of Hydrogen-Bonded Polyaniline Supramolecules. *Macromolecules*, **2000**, 33, 8671-8675	5.5	86
235	Effect of Side Chain Rigidity on the Elasticity of Comb Copolymer Cylindrical Brushes: A Monte Carlo Simulation Study. *Macromolecules*, **1999**, 32, 4439-4443	5.5	85
234	Transition to reinforced state by percolating domains of intercalated brush-modified cellulose nanocrystals and poly(butadiene) in cross-linked composites based on thiol-ene click chemistry. *Biomacromolecules*, **2013**, 14, 1547-54	6.9	84
233	Toughness and Fracture Properties in Nacre-Mimetic Clay/Polymer Nanocomposites. *Advanced Functional Materials*, **2017**, 27, 1605378	15.6	83
232	Chiral Plasmonics Using Twisting along Cellulose Nanocrystals as a Template for Gold Nanoparticles. *Advanced Materials*, **2016**, 28, 5262-7	24	83
231	Blue, green and red emissive silver nanoclusters formed in organic solvents. *Nanoscale*, **2012**, 4, 4434-7	7.7	82
230	Nanocellulose: Recent Fundamental Advances and Emerging Biological and Biomimicking Applications. *Advanced Materials*, **2021**, 33, e2004349	24	81
229	Sensitive Humidity-Driven Reversible and Bidirectional Bending of Nanocellulose Thin Films as Bio-Inspired Actuation. *Advanced Materials Interfaces*, **2015**, 2, 1500080	4.6	79
228	Cationic polymer brush-modified cellulose nanocrystals for high-affinity virus binding. *Nanoscale*, **2014**, 6, 11871-81	7.7	79
227	The effect of viscosity ratio on the phase inversion of polyamide 66/polypropylene blends. *Journal of Applied Polymer Science*, **1994**, 54, 1613-1623	2.9	77
226	Order-disorder transitions in polymer-surfactant systems. *Physical Review E*, **1996**, 54, 6646-6649	2.4	75
225	Effects of compatibilization on fractionated crystallization of PA6/PP blends. *Journal of Applied Polymer Science*, **1993**, 49, 1165-1174	2.9	75
224	Colloidal ionic assembly between anionic native cellulose nanofibrils and cationic block copolymer micelles into biomimetic nanocomposites. *Biomacromolecules*, **2011**, 12, 2074-81	6.9	74
223	Self-assembly and electrical conductivity transitions in conjugated oligoaniline-surfactant complexes. *Angewandte Chemie - International Edition*, **2005**, 44, 751-6	16.4	73
222	Smart materials based on self-assembled hydrogen-bonded comb-shaped supramolecules. *Chemical Record*, **2004**, 4, 219-30	6.6	72
221	Hybrid supramolecular and colloidal hydrogels that bridge multiple length scales. *Angewandte Chemie - International Edition*, **2015**, 54, 5383-8	16.4	69
220	Precisely defined protein-polymer conjugates: construction of synthetic DNA binding domains on proteins by using multivalent dendrons. *ACS Nano*, **2007**, 1, 103-13	16.7	69

219	Tridirectional Protonic Conductivity in Soft Materials. *Advanced Materials*, **2002**, 14, 357	24	69
218	A facile template-free approach to magnetodriven, multifunctional artificial cilia. *ACS Applied Materials & Interfaces*, **2010**, 2, 2226-30	9.5	68
217	Self-Organization of Hairy-Rod Polymers. *Macromolecules*, **2003**, 36, 3758-3763	5.5	68
216	Polymeric Nanofibers Prepared from Self-Organized Supramolecules. *Chemistry of Materials*, **2001**, 13, 4580-4583	9.6	68
215	Crystallization and Cocrystallization in Supramolecular Comb Copolymer-like Systems: Blends of Poly(4-vinylpyridine) and Pentadecylphenol. *Macromolecules*, **1999**, 32, 4404-4410	5.5	68
214	Hierarchical ionic self-assembly of rod-comb block copolypeptide-surfactant complexes. *Biomacromolecules*, **2006**, 7, 3379-84	6.9	67
213	Towards Internal Structuring of Electrospun Fibers by Hierarchical Self-Assembly of Polymeric Comb-Shaped Supramolecules. *Advanced Materials*, **2005**, 17, 1048-1052	24	67
212	Supramolecular amplification of amyloid self-assembly by iodination. *Nature Communications*, **2015**, 6, 7574	17.4	66
211	Extended conformations of isolated molecular bottle-brushes: Influence of side-chain topology. *Macromolecular Theory and Simulations*, **1998**, 7, 211-216	1.5	66
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208	Functionalized elastomeric compatibilizer in PA 6/PP blends and binary interactions between compatibilizer and polymer. *Polymer Engineering and Science*, **1994**, 34, 395-404	2.3	65
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206	Supracolloidal multivalent interactions and wrapping of dendronized glycopolymers on native cellulose nanocrystals. *Journal of the American Chemical Society*, **2014**, 136, 866-9	16.4	63
205	Free-decay and resonant methods for investigating the fundamental limit of superhydrophobicity. *Nature Communications*, **2013**, 4, 2398	17.4	63
204	Shear Alignment at Two Length Scales: Comb-Shaped Supramolecules Self-Organized as Cylinders-within-Lamellar Hierarchy. *Macromolecules*, **2003**, 36, 3684-3688	5.5	63
203	Self-Assembly and Hierarchies in Pyridine-Containing Homopolymers and Block Copolymers with Hydrogen-Bonded Cholesteric Side-Chains. *Macromolecules*, **2010**, 43, 1507-1514	5.5	62
202	Aminic epoxy resin hardeners as reactive solvents for conjugated polymers: polyaniline base/epoxy composites for anticorrosion coatings. *Polymer*, **2005**, 46, 6855-6861	3.9	62

201	Anomalous-Diffusion-Assisted Brightness in White Cellulose Nanofibril Membranes. *Advanced Materials*, **2018**, 30, e1704050	24	61
200	Bacterial Nanocellulose Aerogel Membranes: Novel High-Porosity Materials for Membrane Distillation. *Environmental Science and Technology Letters*, **2016**, 3, 85-91	11	61
199	Halogen-bonded mesogens direct polymer self-assemblies up to millimetre length scale. *Nature Communications*, **2014**, 5, 4043	17.4	61
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197	Processible polyaniline complexes due to molecular recognition: Supramolecular structures based on hydrogen bonding and phenyl stacking. *Synthetic Metals*, **1997**, 84, 55-58	3.6	61
196	Rebounding droplet-droplet collisions on superhydrophobic surfaces: from the phenomenon to droplet logic. *Advanced Materials*, **2012**, 24, 5738-43	24	60
195	Multivalent dendrons for high-affinity adhesion of proteins to DNA. *Angewandte Chemie - International Edition*, **2006**, 45, 3538-42	16.4	60
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193	Tuning the electrical switching of polymer/fullerene nanocomposite thin film devices by control of morphology. *Applied Physics Letters*, **2008**, 93, 203309	3.4	59
192	Self-organized cross-linked phenolic thermosets: thermal and dynamic mechanical properties of novolac/block copolymer blends. *Polymer*, **2001**, 42, 9481-9486	3.9	59
191	Cilia-mimetic hairy surfaces based on end-immobilized nanocellulose colloidal rods. *Biomacromolecules*, **2013**, 14, 2807-13	6.9	54
190	Cooperative colloidal self-assembly of metal-protein superlattice wires. *Nature Communications*, **2017**, 8, 671	17.4	54
189	Functionalized porous microparticles of nanofibrillated cellulose for biomimetic hierarchically structured superhydrophobic surfaces. *RSC Advances*, **2012**, 2, 2882	3.7	54
188	Hierarchical Smectic Self-Assembly of an ABC Miktoarm Star Terpolymer with a Helical Polypeptide Arm. *Macromolecules*, **2010**, 43, 9071-9076	5.5	54
187	Tailoring of the hierarchical structure within electrospun fibers due to supramolecular comb-coil block copolymers: polystyrene-block-poly(4-vinyl pyridine) plasticized by hydrogen bonded pentadecylphenol. *Soft Matter*, **2007**, 3, 978-985	3.6	53
186	Multicomb Polymeric Supramolecules and Their Self-Organization: Combination of Coordination and Ionic Interactions. *Macromolecular Rapid Communications*, **2003**, 24, 556-560	4.8	53
185	Amphiphiles Coordinated to Block Copolymers as a Template for Mesoporous Materials. *Macromolecules*, **2003**, 36, 3986-3991	5.5	53
184	Hydration and dynamic state of nanoconfined polymer layers govern toughness in nacre-mimetic nanocomposites. *Advanced Materials*, **2013**, 25, 5055-9	24	52

183	Aligning cellulose nanofibril dispersions for tougher fibers. *Scientific Reports*, **2017**, 7, 11860	4.9	52
182	Comb-Shaped Supramolecules of Emeraldine Base Form of Polyaniline Due to Coordination with Zinc Dodecyl Benzenesulfonate and Their Plasticized Self-Organized Structures. *Macromolecules*, **2000**, 33, 9272-9276	5.5	52
181	Highly water repellent aerogels based on cellulose stearoyl esters. *Polymer Chemistry*, **2011**, 2, 1789	4.9	51
180	Interfacial Polyelectrolyte Complex Spinning of Cellulose Nanofibrils for Advanced Bicomponent Fibers. *Biomacromolecules*, **2017**, 18, 1293-1301	6.9	50
179	Self-Assembly of a Functional Oligo(Aniline)-Based Amphiphile into Helical Conductive Nanowires. *Journal of the American Chemical Society*, **2015**, 137, 14288-94	16.4	49
178	From hot-injection synthesis to heating-up synthesis of cobalt nanoparticles: observation of kinetically controllable nucleation. *Angewandte Chemie - International Edition*, **2011**, 50, 2080-4	16.4	49
177	Micro- and Macrophase Separation in Phenolic Resol Resin/PEO-PPO-PEO Block Copolymer Blends: Effect of Hydrogen-Bonded PEO Length. *Macromolecular Chemistry and Physics*, **2002**, 203, 388-392	2.6	49
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175	Incorporation of PPE in Lamellar Self-Assembled PS-b-P4VP(PDP) Supramolecules and PS-b-P4VP Diblock Copolymers. *Macromolecules*, **2006**, 39, 6574-6579	5.5	47
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173	Orientation of Supramolecular Self-Organized Polymeric Nanostructures by Oscillatory Shear Flow. *Macromolecules*, **2000**, 33, 3441-3446	5.5	44
172	Molecular engineering of fracture energy dissipating sacrificial bonds into cellulose nanocrystal nanocomposites. *Angewandte Chemie - International Edition*, **2014**, 53, 5049-53	16.4	42
171	Side-Chain-Controlled Self-Assembly of Polystyrene–Polypeptide Miktoarm Star Copolymers. *Macromolecules*, **2012**, 45, 2850-2856	5.5	41
170	Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. *CheM*, **2017**, 2, 417-426	16.2	40
169	Polymer Brushes on Cellulose Nanofibers: Modification, SI-ATRP, and Unexpected Degradation Processes. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7642-7650	8.3	39
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165	Nacre-mimetic clay/xyloglucan bionanocomposites: a chemical modification route for hygromechanical performance at high humidity. *Biomacromolecules*, **2013**, 14, 3842-9	6.9	38
164	Self-assembly and induced circular dichroism in dendritic supramolecules with cholesteric pendant groups. *Journal of the American Chemical Society*, **2010**, 132, 10882-90	16.4	38
163	Correlation Hole Effect in Comblike Copolymer Systems Obtained by Hydrogen Bonding between Homopolymers and End-Functionalized Oligomers. *Macromolecules*, **1997**, 30, 1828-1835	5.5	38
162	Polarized luminescence from self-assembled, aligned, and cleaved supramolecules of highly ordered rodlike polymers. *Applied Physics Letters*, **2002**, 81, 1489-1491	3.4	38
161	Cylindrical Brushes of Comb Copolymer Molecules Containing Rigid Side Chains. *Macromolecules*, **2000**, 33, 6168-6173	5.5	38
160	Biomimetic composites with enhanced toughening using silk-inspired triblock proteins and aligned nanocellulose reinforcements. *Science Advances*, **2019**, 5, eaaw2541	14.3	37
159	Organic memory using [6,6]-phenyl-C(61) butyric acid methyl ester: morphology, thickness and concentration dependence studies. *Nanotechnology*, **2008**, 19, 035203	3.4	37
158	Self-Assembled Poly(4-vinylpyridine)–Surfactant Systems Using Alkyl and Alkoxy Phenylazophenols. *Macromolecules*, **2008**, 41, 4200-4204	5.5	37
157	Hydrogen Bonding Directed Colloidal Self-Assembly of Nanoparticles into 2D Crystals, Capsids, and Supracolloidal Assemblies. *Advanced Functional Materials*, **2018**, 28, 1704328	15.6	37
156	Self-assembly of amphiphilic Janus dendrimers into mechanically robust supramolecular hydrogels for sustained drug release. *Chemistry - A European Journal*, **2015**, 21, 14433-9	4.8	36
155	One-dimensional optical reflectors based on self-organization of polymeric comb-shaped supramolecules. *European Physical Journal E*, **2003**, 10, 69-75	1.5	36
154	Inverse Thermoreversible Mechanical Stiffening and Birefringence in a Methylcellulose/Cellulose Nanocrystal Hydrogel. *Biomacromolecules*, **2018**, 19, 2795-2804	6.9	35
153	Hierarchical Structures in Lamellar Hydrogen Bonded LC Side Chain Diblock Copolymers. *Macromolecules*, **2012**, 45, 7091-7097	5.5	35
152	Comb copolymer cylindrical brushes containing semiflexible side chains: a Monte Carlo study. *Macromolecular Rapid Communications*, **2000**, 21, 110-115	4.8	35
151	Strain-Stiffening of Agarose Gels. *ACS Macro Letters*, **2019**, 8, 670-675	6.6	34
150	Structural and Conformational Transformations in Self-Assembled Polypeptide–Surfactant Complexes. *Macromolecules*, **2008**, 41, 866-872	5.5	34
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148	Self-Organized Liquid Phase and Co-Crystallization of Rod-Like Polymers Hydrogen-Bonded to Amphiphilic Molecules. *Advanced Materials*, **1999**, 11, 1206-1210	24	33

147	Nanotechnologies for Future Mobile Devices **2010**,		33
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