

Olli Ikkala

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanoscale-Structured Hybrid Bragg Stacks with Orientation- and Composition-Dependent Mechanical and Thermal Transport Properties: Implications for Nacre Mimetics and Heat Management Applications.. <i>ACS Applied Nano Materials</i> , 2022 , 5, 4119-4129	5.6	3
307	Compressive stress-mediated p38 activation required for ER β phenotype in breast cancer. <i>Nature Communications</i> , 2021 , 12, 6967	17.4	1
306	Nanocellulose: Recent Fundamental Advances and Emerging Biological and Biomimicking Applications. <i>Advanced Materials</i> , 2021 , 33, e2004349	24	81
305	Luminescent Gold Nanocluster-Methylcellulose Composite Optical Fibers with Low Attenuation Coefficient and High Photostability. <i>Small</i> , 2021 , 17, e2005205	11	8
304	Electroferrofluids with nonequilibrium voltage-controlled magnetism, diffuse interfaces, and patterns.. <i>Science Advances</i> , 2021 , 7, eabi8990	14.3	1
303	Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. <i>Advanced Functional Materials</i> , 2020 , 30, 2000754	15.6	26
302	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. <i>Biomacromolecules</i> , 2020 , 21, 2536-2540	6.9	14
301	UV-Triggered On-Demand Temperature-Responsive Reversible and Irreversible Gelation of Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2020 , 21, 830-838	6.9	2
300	Phosphorylated cellulose nanofibers exhibit exceptional capacity for uranium capture. <i>Cellulose</i> , 2020 , 27, 10719-10732	5.5	14
299	Nanochitins of Varying Aspect Ratio and Properties of Microfibers Produced by Interfacial Complexation with Seaweed Alginate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1137-1145	8.3	15
298	Associative Learning by Classical Conditioning in Liquid Crystal Network Actuators. <i>Matter</i> , 2020 , 2, 194-206	20.6	30
297	Tunable and Magnetic Thiol-ene Micropillar Arrays. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900522	4.8	10
296	Strain Stiffening and Negative Normal Force of Agarose Hydrogels. <i>Macromolecules</i> , 2020 , 53, 9983-9992	5.5	2
295	Slippery and magnetically responsive micropillared surfaces for manipulation of droplets and beads. <i>AIP Advances</i> , 2020 , 10, 085021	1.5	2
294	Viewpoint: Pavlovian Materials-Functional Biomimetics Inspired by Classical Conditioning. <i>Advanced Materials</i> , 2020 , 32, e1906619	24	15
293	Lyotropic liquid crystals and linear supramolecular polymers of end-functionalized oligosaccharides. <i>Chemical Communications</i> , 2019 , 55, 11739-11742	5.8	2
292	Biomimetic composites with enhanced toughening using silk-inspired triblock proteins and aligned nanocellulose reinforcements. <i>Science Advances</i> , 2019 , 5, eaaw2541	14.3	37

291	Strain-Stiffening of Agarose Gels. <i>ACS Macro Letters</i> , 2019 , 8, 670-675	6.6	34
290	Light-induced reversible hydrophobization of cationic gold nanoparticles via electrostatic adsorption of a photoacid. <i>Nanoscale</i> , 2019 , 11, 14118-14122	7.7	16
289	Programmable responsive hydrogels inspired by classical conditioning algorithm. <i>Nature Communications</i> , 2019 , 10, 3267	17.4	29
288	Highly Luminescent Gold Nanocluster Frameworks. <i>Advanced Optical Materials</i> , 2019 , 7, 1900620	8.1	25
287	Macromolecular Architecture and Encapsulation of the Anticancer Drug Everolimus Control the Self-Assembly of Amphiphilic Polypeptide-Containing Hybrids. <i>Biomacromolecules</i> , 2019 , 20, 4546-4562	6.9	9
286	Supramolecular Self-Assembly of Nanoconfined Ionic Liquids for Fast Anisotropic Ion Transport. <i>Advanced Functional Materials</i> , 2019 , 29, 1905054	15.6	6
285	DNA origami directed 3D nanoparticle superlattice via electrostatic assembly. <i>Nanoscale</i> , 2019 , 11, 4546-4551	7.7	27
284	Effects of Chloride Concentration on the Water Disinfection Performance of Silver Containing Nanocellulose-based Composites. <i>Scientific Reports</i> , 2019 , 9, 19505	4.9	8
283	Methyl cellulose/cellulose nanocrystal nanocomposite fibers with high ductility. <i>European Polymer Journal</i> , 2019 , 112, 334-345	5.2	17
282	Imaging Inelastic Fracture Processes in Biomimetic Nanocomposites and Nacre by Laser Speckle for Better Toughness. <i>Advanced Science</i> , 2018 , 5, 1700635	13.6	23
281	Block Copolymer Micelles for Photonic Fluids and Crystals. <i>ACS Nano</i> , 2018 , 12, 3149-3158	16.7	28
280	Advanced Materials through Assembly of Nanocelluloses. <i>Advanced Materials</i> , 2018 , 30, e1703779	24	340
279	Self-Assembly of Electrostatic Cocrystals from Supercharged Fusion Peptides and Protein Cages. <i>ACS Macro Letters</i> , 2018 , 7, 318-323	6.6	30
278	Polymersomes with asymmetric membranes and self-assembled superstructures using pentablock quaterpolymers resolved by electron tomography. <i>Chemical Communications</i> , 2018 , 54, 1085-1088	5.8	5
277	Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing. <i>ACS Macro Letters</i> , 2018 , 7, 381-386	6.6	18
276	Anomalous-Diffusion-Assisted Brightness in White Cellulose Nanofibril Membranes. <i>Advanced Materials</i> , 2018 , 30, e1704050	24	61
275	Crystalline Cyclophane-Protein Cage Frameworks. <i>ACS Nano</i> , 2018 , 12, 8029-8036	16.7	27
274	Inverse Thermoreversible Mechanical Stiffening and Birefringence in a Methylcellulose/Cellulose Nanocrystal Hydrogel. <i>Biomacromolecules</i> , 2018 , 19, 2795-2804	6.9	35

273	Polymer brush guided templating on well-defined rod-like cellulose nanocrystals. <i>Polymer Chemistry</i> , 2018 , 9, 1650-1657	4.9	24
272	Hydrogen Bonding Directed Colloidal Self-Assembly of Nanoparticles into 2D Crystals, Capsids, and Supracolloidal Assemblies. <i>Advanced Functional Materials</i> , 2018 , 28, 1704328	15.6	37
271	A versatile colloidal Janus platform: surface asymmetry control, functionalization, and applications. <i>Chemical Communications</i> , 2018 , 54, 12726-12729	5.8	16
270	Polymer Nanowires with Highly Precise Internal Morphology and Topography. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12736-12740	16.4	21
269	Photoantimicrobial Biohybrids by Supramolecular Immobilization of Cationic Phthalocyanines onto Cellulose Nanocrystals. <i>Chemistry - A European Journal</i> , 2017 , 23, 4320-4326	4.8	29
268	Toughness and Fracture Properties in Nacre-Mimetic Clay/Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2017 , 27, 1605378	15.6	83
267	In Vitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. <i>Biomaterials</i> , 2017 , 121, 97-108	15.6	217
266	Self-Assembly of Native Cellulose Nanostructures 2017 , 123-174		7
265	Interfacial Polyelectrolyte Complex Spinning of Cellulose Nanofibrils for Advanced Bicomponent Fibers. <i>Biomacromolecules</i> , 2017 , 18, 1293-1301	6.9	50
264	Hierarchical Supramolecular Cross-Linking of Polymers for Biomimetic Fracture Energy Dissipating Sacrificial Bonds and Defect Tolerance under Mechanical Loading. <i>ACS Macro Letters</i> , 2017 , 6, 210-214	6.6	21
263	Reversible Supracolloidal Self-Assembly of Cobalt Nanoparticles to Hollow Capsids and Their Superstructures. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6473-6477	16.4	28
262	Halogenation dictates the architecture of amyloid peptide nanostructures. <i>Nanoscale</i> , 2017 , 9, 9805-9810	10.7	23
261	Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. <i>CheM</i> , 2017 , 2, 417-426	16.2	40
260	Hierarchical self-assembly from nanometric micelles to colloidal spherical superstructures. <i>Polymer</i> , 2017 , 126, 177-187	3.9	10
259	Cooperative colloidal self-assembly of metal-protein superlattice wires. <i>Nature Communications</i> , 2017 , 8, 671	17.4	54
258	Aligning cellulose nanofibril dispersions for tougher fibers. <i>Scientific Reports</i> , 2017 , 7, 11860	4.9	52
257	Polymer Brushes on Cellulose Nanofibers: Modification, SI-ATRP, and Unexpected Degradation Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7642-7650	8.3	39
256	Nanocellulose-Based Materials in Supramolecular Chemistry 2017 , 351-364		0

255	Reversible Supracolloidal Self-Assembly of Cobalt Nanoparticles to Hollow Capsids and Their Superstructures. <i>Angewandte Chemie</i> , 2017 , 129, 6573-6577	3.6	11
254	Controlling Multicompartment Morphologies Using Solvent Conditions and Chemical Modification. <i>ACS Macro Letters</i> , 2016 , 5, 1044-1048	6.6	28
253	Template-Free Supracolloidal Self-Assembly of Atomically Precise Gold Nanoclusters: From 2D Colloidal Crystals to Spherical Capsids. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16035-16038	16.4	64
252	Controlling the shape of Janus nanostructures through supramolecular modification of ABC terpolymer bulk morphologies. <i>Polymer</i> , 2016 , 107, 456-465	3.9	28
251	Bacterial Nanocellulose Aerogel Membranes: Novel High-Porosity Materials for Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 85-91	11	61
250	Human stem cell decorated nanocellulose threads for biomedical applications. <i>Biomaterials</i> , 2016 , 82, 208-20	15.6	113
249	Chiral Plasmonics Using Twisting along Cellulose Nanocrystals as a Template for Gold Nanoparticles. <i>Advanced Materials</i> , 2016 , 28, 5262-7	24	83
248	Template-Free Supracolloidal Self-Assembly of Atomically Precise Gold Nanoclusters: From 2D Colloidal Crystals to Spherical Capsids. <i>Angewandte Chemie</i> , 2016 , 128, 16269-16272	3.6	16
247	Rational design of ABC triblock terpolymer solution nanostructures with controlled patch morphology. <i>Nature Communications</i> , 2016 , 7, 12097	17.4	116
246	Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State. <i>Macromolecules</i> , 2016 , 49, 4095-4101	5.5	26
245	Electrical behaviour of native cellulose nanofibril/carbon nanotube hybrid aerogels under cyclic compression. <i>RSC Advances</i> , 2016 , 6, 89051-89056	3.7	17
244	Rod-Like Nanoparticles with Striped and Helical Topography. <i>ACS Macro Letters</i> , 2016 , 5, 1185-1190	6.6	27
243	Efficient Light-Induced Phase Transitions in Halogen-Bonded Liquid Crystals. <i>Chemistry of Materials</i> , 2016 , 28, 8314-8321	9.6	39
242	Hydrogen bonding asymmetric star-shape derivative of bile acid leads to supramolecular fibrillar aggregates that wrap into micrometer spheres. <i>Soft Matter</i> , 2016 , 12, 7159-65	3.6	16
241	Supramolecular amplification of amyloid self-assembly by iodination. <i>Nature Communications</i> , 2015 , 6, 7574	17.4	66
240	Hybrid supramolecular and colloidal hydrogels that bridge multiple length scales. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5383-8	16.4	69
239	Sensitive Humidity-Driven Reversible and Bidirectional Bending of Nanocellulose Thin Films as Bio-Inspired Actuation. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500080	4.6	79
238	Bulk morphologies of polystyrene-block-polybutadiene-block-poly(tert-butyl methacrylate) triblock terpolymers. <i>Polymer</i> , 2015 , 72, 479-489	3.9	31

237	Self-Assembly of a Functional Oligo(Aniline)-Based Amphiphile into Helical Conductive Nanowires. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14288-94	16.4	49
236	Enhanced plastic deformations of nanofibrillated cellulose film by adsorbed moisture and protein-mediated interactions. <i>Biomacromolecules</i> , 2015 , 16, 311-8	6.9	24
235	Modular architecture of protein binding units for designing properties of cellulose nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12025-8	16.4	23
234	Hybrid Supramolecular and Colloidal Hydrogels that Bridge Multiple Length Scales. <i>Angewandte Chemie</i> , 2015 , 127, 5473-5478	3.6	12
233	Ambient-Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 6618-6626	15.6	115
232	Self-assembly of amphiphilic Janus dendrimers into mechanically robust supramolecular hydrogels for sustained drug release. <i>Chemistry - A European Journal</i> , 2015 , 21, 14433-9	4.8	36
231	Modular Architecture of Protein Binding Units for Designing Properties of Cellulose Nanomaterials. <i>Angewandte Chemie</i> , 2015 , 127, 12193-12196	3.6	7
230	Water-resistant, transparent hybrid nanopaper by physical cross-linking with chitosan. <i>Biomacromolecules</i> , 2015 , 16, 1062-71	6.9	109
229	Healable, Stable and Stiff Hydrogels: Combining Conflicting Properties Using Dynamic and Selective Three-Component Recognition with Reinforcing Cellulose Nanorods. <i>Advanced Functional Materials</i> , 2014 , 24, 2706-2713	15.6	197
228	Supracolloidal multivalent interactions and wrapping of dendronized glycopolymers on native cellulose nanocrystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 866-9	16.4	63
227	Thermoresponsive Nanocellulose Hydrogels with Tunable Mechanical Properties.. <i>ACS Macro Letters</i> , 2014 , 3, 266-270	6.6	135
226	Extended self-assembled long periodicity and Zig-Zag domains from helix-helix diblock copolymer Poly(Ebenzyl-L-glutamate)-block-poly(O-benzyl-L-hydroxyproline). <i>Biomacromolecules</i> , 2014 , 15, 3923-30	6.9	16
225	Polypeptide-based aerosol nanoparticles: self-assembly and control of conformation by solvent and thermal annealing. <i>Biomacromolecules</i> , 2014 , 15, 2607-15	6.9	9
224	Droplet and Fluid Gating by Biomimetic Janus Membranes. <i>Advanced Functional Materials</i> , 2014 , 24, 6023-6028	15.6	211
223	An efficient and stable star-shaped plasticizer for starch: cyclic phosphazene with hydrogen bonding aminoethoxy ethanol side chains. <i>Green Chemistry</i> , 2014 , 16, 4339-4350	10	17
222	Cationic polymer brush-modified cellulose nanocrystals for high-affinity virus binding. <i>Nanoscale</i> , 2014 , 6, 11871-81	7.7	79
221	Molecular engineering of fracture energy dissipating sacrificial bonds into cellulose nanocrystal nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5049-53	16.4	42
220	Halogen-bonded mesogens direct polymer self-assemblies up to millimetre length scale. <i>Nature Communications</i> , 2014 , 5, 4043	17.4	61

219	Ferromagnetic resonance in γ -Co magnetic composites. <i>Nanotechnology</i> , 2014 , 25, 485707	3.4	8
218	Molecular Engineering of Fracture Energy Dissipating Sacrificial Bonds Into Cellulose Nanocrystal Nanocomposites. <i>Angewandte Chemie</i> , 2014 , 126, 5149-5153	3.6	16
217	From Block Copolymer Self-Assembly, Liquid Crystallinity, and Supramolecular Concepts to Functionalities 2014 , 1-58		1
216	Deoxyguanosine phosphate mediated sacrificial bonds promote synergistic mechanical properties in nacre-mimetic nanocomposites. <i>Biomacromolecules</i> , 2013 , 14, 2531-5	6.9	21
215	Cilia-mimetic hairy surfaces based on end-immobilized nanocellulose colloidal rods. <i>Biomacromolecules</i> , 2013 , 14, 2807-13	6.9	54
214	Switchable static and dynamic self-assembly of magnetic droplets on superhydrophobic surfaces. <i>Science</i> , 2013 , 341, 253-7	33.3	317
213	Photoinduced surface patterning of azobenzene-containing supramolecular dendrons, dendrimers and dendronized polymers. <i>Optical Materials Express</i> , 2013 , 3, 711	2.6	9
212	Nacre-mimetic clay/xyloglucan bionanocomposites: a chemical modification route for hygromechanical performance at high humidity. <i>Biomacromolecules</i> , 2013 , 14, 3842-9	6.9	38
211	Free-decay and resonant methods for investigating the fundamental limit of superhydrophobicity. <i>Nature Communications</i> , 2013 , 4, 2398	17.4	63
210	Hydration and dynamic state of nanoconfined polymer layers govern toughness in nacre-mimetic nanocomposites. <i>Advanced Materials</i> , 2013 , 25, 5055-9	24	52
209	Ionically interacting nanoclay and nanofibrillated cellulose lead to tough bulk nanocomposites in compression by forced self-assembly. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 835-840	7.3	25
208	Reliable measurement of the receding contact angle. <i>Langmuir</i> , 2013 , 29, 3858-63	4	103
207	Modifying native nanocellulose aerogels with carbon nanotubes for mechanoresponsive conductivity and pressure sensing. <i>Advanced Materials</i> , 2013 , 25, 2428-32	24	217
206	Preservation of superhydrophobic and superoleophobic properties upon wear damage. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 485-8	9.5	162
205	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. <i>Biomacromolecules</i> , 2013 , 14, 1547-54	6.9	84
204	Side-Chain-Controlled Self-Assembly of Polystyrene-Polypeptide Miktoarm Star Copolymers. <i>Macromolecules</i> , 2012 , 45, 2850-2856	5.5	41
203	SEM imaging of chiral nematic films cast from cellulose nanocrystal suspensions. <i>Cellulose</i> , 2012 , 19, 1599-1605	5.5	186
202	Hierarchical Structures in Lamellar Hydrogen Bonded LC Side Chain Diblock Copolymers. <i>Macromolecules</i> , 2012 , 45, 7091-7097	5.5	35

201	Double smectic self-assembly in block copolypeptide complexes. <i>Biomacromolecules</i> , 2012 , 13, 3572-80	6.9	13
200	Rebounding droplet-droplet collisions on superhydrophobic surfaces: from the phenomenon to droplet logic. <i>Advanced Materials</i> , 2012 , 24, 5738-43	24	60
199	Generic method for modular surface modification of cellulosic materials in aqueous medium by sequential "click" reaction and adsorption. <i>Biomacromolecules</i> , 2012 , 13, 736-42	6.9	105
198	Facile method for stiff, tough, and strong nanocomposites by direct exfoliation of multilayered graphene into native nanocellulose matrix. <i>Biomacromolecules</i> , 2012 , 13, 1093-9	6.9	107
197	Nanofibrillar cellulose hydrogel promotes three-dimensional liver cell culture. <i>Journal of Controlled Release</i> , 2012 , 164, 291-8	11.7	293
196	Functionalized porous microparticles of nanofibrillated cellulose for biomimetic hierarchically structured superhydrophobic surfaces. <i>RSC Advances</i> , 2012 , 2, 2882	3.7	54
195	Vapour-driven Marangoni propulsion: continuous, prolonged and tunable motion. <i>Chemical Science</i> , 2012 , 3, 2526	9.4	65
194	Blue, green and red emissive silver nanoclusters formed in organic solvents. <i>Nanoscale</i> , 2012 , 4, 4434-7	7.7	82
193	Reversible switching between superhydrophobic states on a hierarchically structured surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10210-3	11.5	215
192	Inorganic hollow nanotube aerogels by atomic layer deposition onto native nanocellulose templates. <i>ACS Nano</i> , 2011 , 5, 1967-74	16.7	265
191	Strong and tough cellulose nanopaper with high specific surface area and porosity. <i>Biomacromolecules</i> , 2011 , 12, 3638-44	6.9	373
190	Colloidal ionic assembly between anionic native cellulose nanofibrils and cationic block copolymer micelles into biomimetic nanocomposites. <i>Biomacromolecules</i> , 2011 , 12, 2074-81	6.9	74
189	Clay nanopaper with tough cellulose nanofiber matrix for fire retardancy and gas barrier functions. <i>Biomacromolecules</i> , 2011 , 12, 633-41	6.9	334
188	Polyelectrolyte brushes grafted from cellulose nanocrystals using Cu-mediated surface-initiated controlled radical polymerization. <i>Biomacromolecules</i> , 2011 , 12, 2997-3006	6.9	125
187	Highly water repellent aerogels based on cellulose stearyl esters. <i>Polymer Chemistry</i> , 2011 , 2, 1789	4.9	51
186	Hydrophobic nanocellulose aerogels as floating, sustainable, reusable, and recyclable oil absorbents. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1813-6	9.5	654
185	Superhydrophobic and superoleophobic nanocellulose aerogel membranes as bioinspired cargo carriers on water and oil. <i>Langmuir</i> , 2011 , 27, 1930-4	4	257
184	Functionalization of nanofibrillated cellulose with silver nanoclusters: fluorescence and antibacterial activity. <i>Macromolecular Bioscience</i> , 2011 , 11, 1185-91	5.5	109

183	Photoswitchable Superabsorbency Based on Nanocellulose Aerogels. <i>Advanced Functional Materials</i> , 2011 , 21, 510-517	15.6	218
182	Mechanically durable superhydrophobic surfaces. <i>Advanced Materials</i> , 2011 , 23, 673-8	24	777
181	Superhydrophobic tracks for low-friction, guided transport of water droplets. <i>Advanced Materials</i> , 2011 , 23, 2911-4	24	179
180	Multifunctional high-performance biofibers based on wet-extrusion of renewable native cellulose nanofibrils. <i>Advanced Materials</i> , 2011 , 23, 2924-8	24	205
179	From Hot-Injection Synthesis to Heating-Up Synthesis of Cobalt Nanoparticles: Observation of Kinetically Controllable Nucleation. <i>Angewandte Chemie</i> , 2011 , 123, 2128-2132	3.6	8
178	Self-Assembled Polymeric Supramolecular Frameworks. <i>Angewandte Chemie</i> , 2011 , 123, 2564-2568	3.6	5
177	Genetic Engineering of Biomimetic Nanocomposites: Diblock Proteins, Graphene, and Nanofibrillated Cellulose. <i>Angewandte Chemie</i> , 2011 , 123, 8847-8850	3.6	15
176	From hot-injection synthesis to heating-up synthesis of cobalt nanoparticles: observation of kinetically controllable nucleation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2080-4	16.4	49
175	Self-assembled polymeric supramolecular frameworks. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2516-20	16.4	39
174	Genetic engineering of biomimetic nanocomposites: diblock proteins, graphene, and nanofibrillated cellulose. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8688-91	16.4	125
173	Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates. <i>Nature Nanotechnology</i> , 2010 , 5, 584-8	28.7	684
172	Large-area, lightweight and thick biomimetic composites with superior material properties via fast, economic, and green pathways. <i>Nano Letters</i> , 2010 , 10, 2742-8	11.5	385
171	A facile template-free approach to magnetodriven, multifunctional artificial cilia. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2226-30	9.5	68
170	Oblique self-assemblies and order-order transitions in polypeptide complexes with PEGylated triple-tail lipids. <i>Biomacromolecules</i> , 2010 , 11, 3440-7	6.9	6
169	Self-assembly and induced circular dichroism in dendritic supramolecules with cholesteric pendant groups. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10882-90	16.4	38
168	Self-Assembly and Hierarchies in Pyridine-Containing Homopolymers and Block Copolymers with Hydrogen-Bonded Cholesteric Side-Chains. <i>Macromolecules</i> , 2010 , 43, 1507-1514	5.5	62
167	Hierarchical Smectic Self-Assembly of an ABC Miktoarm Star Terpolymer with a Helical Polypeptide Arm. <i>Macromolecules</i> , 2010 , 43, 9071-9076	5.5	54
166	Cobalt nanoparticle Langmuir-Schaefer films on ethylene glycol subphase. <i>Langmuir</i> , 2010 , 26, 13937-434	15	

165	Controlled growth of silver nanoparticle arrays guided by a self-assembled polymer-peptide conjugate. <i>Soft Matter</i> , 2010 , 6, 3160	3.6	28
164	Supramolekulare Kontrolle der mechanischen Eigenschaften feuerabschirmender biomimetischer Perlmutteranaloge. <i>Angewandte Chemie</i> , 2010 , 122, 6593-6599	3.6	16
163	Supramolecular control of stiffness and strength in lightweight high-performance nacre-mimetic paper with fire-shielding properties. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6448-53	16.4	191
162	Self-assembly of cationic rod-like poly(2,5-pyridine) by acidic bis(trifluoromethane)sulfonimide in the hydrated state: A highly-ordered self-assembled protonic conductor. <i>Polymer</i> , 2010 , 51, 4095-4102	3.9	6
161	Poly(aniline) doped with 5-formyl-2-furansulfonic acid: A humidity memory. <i>Organic Electronics</i> , 2010 , 11, 472-478	3.5	17
160	Magnetic Nanocomposites at Microwave Frequencies. <i>Engineering Materials</i> , 2010 , 257-285	0.4	10
159	Nanotechnologies for Future Mobile Devices 2010 ,		33
158	Directing the Smectic Layer Orientation by Shear Flow in Hierarchical Lamellar-within-lamellar Liquid Crystalline Diblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1218-1223	2.6	10
157	Color tunability and electrochemiluminescence of silver nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2122-5	16.4	333
156	Order-disorder transitions in self-assembled polymers: A positron annihilation study. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2414-2416		3
155	Negative differential resistance in polymeric memory devices containing disordered block copolymers with semiconducting block. <i>Organic Electronics</i> , 2009 , 10, 1478-1482	3.5	13
154	Effect of double-tailed surfactant architecture on the conformation, self-assembly, and processing in polypeptide-surfactant complexes. <i>Biomacromolecules</i> , 2009 , 10, 2787-94	6.9	11
153	Solid state nanofibers based on self-assemblies: from cleaving from self-assemblies to multilevel hierarchical constructs. <i>Faraday Discussions</i> , 2009 , 143, 95-107; discussion 169-86	3.6	32
152	Hydrogen-Bonded Polymer-Azobenzene Complexes: Enhanced Photoinduced Birefringence with High Temporal Stability through Interplay of Intermolecular Interactions. <i>Chemistry of Materials</i> , 2008 , 20, 6358-6363	9.6	103
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