

Andreas Walther

List of Publications by Year in descending order

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194
papers

16,976
citations

13865

67
h-index

16183

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219
docs citations

219
times ranked

15403
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipative Organization of DNA Oligomers for Transient Catalytic Function. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	25
2	Self-Regulating Colloidal Co-Assemblies That Accelerate Their Own Destruction via Chemo-Structural Feedback. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
3	Efficient Softening and Toughening Strategies of Cellulose Nanofibril Nanocomposites Using Comb Polyurethane. <i>Biomacromolecules</i> , 2022, 23, 1693-1702.	5.4	2
4	1D Colloidal chains: recent progress from formation to emergent properties and applications. <i>Chemical Society Reviews</i> , 2022, 51, 4023-4074.	38.1	15
5	An Opto- and Thermal-Rewrite PCM/CNF-R 780 Energy Storage Nanopaper with Mechanical Regulated Performance. <i>Small</i> , 2022, 18, .	10.0	8
6	Wellenlängen-gesteuerte Adaption der Hydrogeleigenschaften durch Photodynamische Multivalenz in Assoziierenden Sternpolymeren. <i>Angewandte Chemie</i> , 2021, 133, 4404-4413.	2.0	2
7	Wavelength-Gated Adaptation of Hydrogel Properties via Photo-Dynamic Multivalency in Associative Star Polymers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4358-4367.	13.8	17
8	Chemically Fueled Volume Phase Transition of Polyacid Microgels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7117-7125.	13.8	47
9	Room-Temperature Phosphorescence Enabled through Nacre-Mimetic Nanocomposite Design. <i>Advanced Materials</i> , 2021, 33, e2005973.	21.0	87
10	Modular functionalization and hydrogel formation <i>via</i> red-shifted and self-reporting [2+2] cycloadditions. <i>Chemical Communications</i> , 2021, 57, 805-808.	4.1	15
11	Autonomous Transient pH Flips Shaped by Layered Compartmentalization of Antagonistic Enzymatic Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3619-3624.	13.8	37
12	Autonomous Transient pH Flips Shaped by Layered Compartmentalization of Antagonistic Enzymatic Reactions. <i>Angewandte Chemie</i> , 2021, 133, 3663-3668.	2.0	17
13	Spinodal decomposition of chemically fueled polymer solutions. <i>Soft Matter</i> , 2021, 17, 5401-5409.	2.7	17
14	AUTONOMOUS CHEMICALLY DRIVEN MATERIALS SYSTEMS INSPIRED FROM LIFE. , 2021, , .		0
15	Multivalency Pattern Recognition to Sort Colloidal Assemblies. <i>Small</i> , 2021, 17, e2005668.	10.0	5
16	Electrical switching of high-performance bioinspired nanocellulose nanocomposites. <i>Nature Communications</i> , 2021, 12, 1312.	12.8	28
17	Chemically Fueled Volume Phase Transition of Polyacid Microgels. <i>Angewandte Chemie</i> , 2021, 133, 7193-7201.	2.0	11
18	Recyclable and Light-Adaptive Vitrimer-Based Nacre-Mimetic Nanocomposites. <i>ACS Nano</i> , 2021, 15, 5043-5055.	14.6	36

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19	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11398-11405.	13.8	42
20	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie</i> , 2021, 133, 11499-11506.	2.0	11
21	One-Component DNA Mechanoprobes for Facile Mechanosensing in Photopolymerized Hydrogels and Elastomers. <i>ACS Macro Letters</i> , 2021, 10, 671-678.	4.8	15
22	Dry Processing and Recycling of Thick Nacreâ€Mimetic Nanocomposites. <i>Advanced Functional Materials</i> , 2021, 31, 2102677.	14.9	18
23	Development of Bioinspired Functional Chitosan/Cellulose Nanofiber 3D Hydrogel Constructs by 3D Printing for Application in the Engineering of Mechanically Demanding Tissues. <i>Polymers</i> , 2021, 13, 1663.	4.5	35
24	Tunable and Large-Scale Model Network StarPEG-DNA Hydrogels. <i>Macromolecules</i> , 2021, 54, 7125-7133.	4.8	12
25	Feedback and Communication in Active Hydrogel Spheres with pH Fronts: Facile Approaches to Grow Soft Hydrogel Structures. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22537-22546.	13.8	34
26	Autonomous DNA nanostructures instructed by hierarchically concatenated chemical reaction networks. <i>Nature Communications</i> , 2021, 12, 5132.	12.8	40
27	Wavelengthâ€Selective Softening of Hydrogel Networks. <i>Advanced Materials</i> , 2021, 33, e2102184.	21.0	39
28	Molecular communication relays for dynamic cross-regulation of self-sorting fibrillar self-assemblies. <i>Science Advances</i> , 2021, 7, eabj5827.	10.3	11
29	Nonâ€Equilibrium, Lightâ€Adaptive, Steadyâ€State Reconfiguration of Mechanical Patterns in Bioinspired Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1905309.	14.9	15
30	Pathway Complexity in Fuel-Driven DNA Nanostructures with Autonomous Reconfiguration of Multiple Dynamic Steady States. <i>Journal of the American Chemical Society</i> , 2020, 142, 685-689.	13.7	59
31	Waterborne Methacrylate-Based Vitrimers. <i>ACS Macro Letters</i> , 2020, 9, 70-76.	4.8	35
32	Supracolloidal Selfâ€Assembly of Divalent Janus 3D DNA Origami via Programmable Multivalent Host/Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5515-5520.	13.8	38
33	Suprakolloidale Selbstorganisation von bivalenten Janusâ€3Dâ€DNAâ€Origami Ã¼ber programmierbare, multivalente Wirt/Gastâ€Wechselwirkungen. <i>Angewandte Chemie</i> , 2020, 132, 5557-5563.	2.0	1
34	Viewpoint: From Responsive to Adaptive and Interactive Materials and Materials Systems: A Roadmap. <i>Advanced Materials</i> , 2020, 32, e1905111.	21.0	177
35	Class Transition Temperature Regulates Mechanical Performance in Nacreâ€Mimetic Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000380.	3.9	11
36	Self-Assembled Bioinspired Nanocomposites. <i>Accounts of Chemical Research</i> , 2020, 53, 2622-2635.	15.6	41

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37	ATP-powered molecular recognition to engineer transient multivalency and self-sorting 4D hierarchical systems. <i>Nature Communications</i> , 2020, 11, 3658.	12.8	47
38	Biodegradation of Crystalline Cellulose Nanofibers by Means of Enzyme Immobilized-Alginate Beads and Microparticles. <i>Polymers</i> , 2020, 12, 1522.	4.5	31
39	Multiple Light Control Mechanisms in ATP-Fueled Non-equilibrium DNA Systems. <i>Angewandte Chemie</i> , 2020, 132, 12182-12190.	2.0	15
40	Fuel-Driven Transient DNA Strand Displacement Circuitry with Self-Resetting Function. <i>Journal of the American Chemical Society</i> , 2020, 142, 21102-21109.	13.7	53
41	Switchable supracolloidal 3D DNA origami nanotubes mediated through fuel/antifuel reactions. <i>Nanoscale</i> , 2020, 12, 16995-17004.	5.6	14
42	Granular Cellulose Nanofibril Hydrogel Scaffolds for 3D Cell Cultivation. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000191.	3.9	15
43	Programmable ATP-Fueled DNA Coacervates by Transient Liquid-Liquid Phase Separation. <i>CheM</i> , 2020, 6, 3329-3343.	11.7	55
44	ATP-Responsive and ATP-Fueled Self-Assembling Systems and Materials. <i>Advanced Materials</i> , 2020, 32, e2002629.	21.0	87
45	Functional and morphological adaptation in DNA protocells via signal processing prompted by artificial metalloenzymes. <i>Nature Nanotechnology</i> , 2020, 15, 914-921.	31.5	76
46	Scalable One-Pot-Liquid-Phase Oligonucleotide Synthesis for Model Network Hydrogels. <i>Journal of the American Chemical Society</i> , 2020, 142, 16610-16621.	13.7	22
47	pH Tuning of Water-Soluble Arylazopyrazole Photoswitches. <i>Chemistry - A European Journal</i> , 2020, 26, 13203-13212.	3.3	27
48	Hierarchical cross-linking for synergetic toughening in crustacean-mimetic nanocomposites. <i>Nanoscale</i> , 2020, 12, 12958-12969.	5.6	10
49	Biodegradable Laser Arrays Self-Assembled from Plant Resources. <i>Advanced Materials</i> , 2020, 32, e2002332.	21.0	27
50	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. <i>Biomacromolecules</i> , 2020, 21, 2536-2540.	5.4	30
51	Polymer Transformers: Interdigitating Reaction Networks of Fueled Monomer Species to Reconfigure Functional Polymer States. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18161-18165.	13.8	16
52	Cellulose Nanofibril Hydrogel Promotes Hepatic Differentiation of Human Liver Organoids. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901658.	7.6	62
53	Structure, Mechanical Properties, and Dynamics of Polyethylenoxide/Nanoclay Nacre-Mimetic Nanocomposites. <i>Macromolecules</i> , 2020, 53, 1716-1725.	4.8	27
54	Multiple Light Control Mechanisms in ATP-Fueled Non-equilibrium DNA Systems. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12084-12092.	13.8	62

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55	DNA-templated Polymer Nanostructures by RAFT Polymerization and Polymerization-Induced Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15474-15479.	13.8	46
56	Highly Mineralized Biomimetic Polysaccharide Nanofiber Materials Using Enzymatic Mineralization. <i>Biomacromolecules</i> , 2020, 21, 2176-2186.	5.4	24
57	Outstanding Synergies in Mechanical Properties of Bioinspired Cellulose Nanofibril Nanocomposites using Self-Cross-Linking Polyurethanes. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3334-3342.	4.4	22
58	Programmable dynamic steady states in ATP-driven nonequilibrium DNA systems. <i>Science Advances</i> , 2019, 5, eaaw0590.	10.3	134
59	Phytochrome-Based Extracellular Matrix with Reversibly Tunable Mechanical Properties. <i>Advanced Materials</i> , 2019, 31, e1806727.	21.0	104
60	Modular Design of Programmable Mechanofluorescent DNA Hydrogels. <i>Nature Communications</i> , 2019, 10, 528.	12.8	111
61	Bottom-up design of model network elastomers and hydrogels from precise star polymers. <i>Polymer Chemistry</i> , 2019, 10, 3740-3750.	3.9	11
62	Poly(4-vinyl imidazole): A pH-Responsive Trigger for Hierarchical Self-Assembly of Multicompartment Micelles Based upon Triblock Terpolymers. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900131.	2.2	14
63	Biomaterials: Phytochrome-Based Extracellular Matrix with Reversibly Tunable Mechanical Properties (<i>Adv. Mater.</i> 12/2019). <i>Advanced Materials</i> , 2019, 31, 1970083.	21.0	1
64	Bioactive Patchy Nanoparticles with Compartmentalized Cargoes for Simultaneous and Trackable Delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7335-7340.	13.8	25
65	Bioactive Patchy Nanoparticles with Compartmentalized Cargoes for Simultaneous and Trackable Delivery. <i>Angewandte Chemie</i> , 2019, 131, 7413-7418.	2.0	6
66	Surface roughness influences the protein corona formation of glycosylated nanoparticles and alter their cellular uptake. <i>Nanoscale</i> , 2019, 11, 23259-23267.	5.6	66
67	Vitrimer Chemistry Meets Cellulose Nanofibrils: Bioinspired Nanopapers with High Water Resistance and Strong Adhesion. <i>Biomacromolecules</i> , 2019, 20, 1045-1055.	5.4	77
68	Sustainable Chitin Nanofibrils Provide Outstanding Flame-Retardant Nanopapers. <i>Biomacromolecules</i> , 2019, 20, 1098-1108.	5.4	35
69	2D Patterned Ion-Exchange Membranes Induce Electroconvection. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801309.	3.7	40
70	Nanofibrillar Cellulose as an Enzymatically and Flow Driven Degradable Scaffold for Three-Dimensional Tissue Engineering. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2019, 2, .	0.5	3
71	Photochemical ligation meets nanocellulose: a versatile platform for self-reporting functional materials. <i>Materials Horizons</i> , 2018, 5, 560-568.	12.2	25
72	Raising the Bar in Aromatic Donor-Acceptor Interactions with Cyclic Trinuclear Gold(I) Complexes as Strong π -Donors. <i>Journal of the American Chemical Society</i> , 2018, 140, 17932-17944.	13.7	43

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73	Facile and On-Demand Cross-Linking of Nacre-Mimetic Nanocomposites Using Tailor-Made Polymers with Latent Reactivity. ACS Applied Materials & Interfaces, 2018, 10, 20250-20255.	8.0	15
74	3D DNA Origami Nanoparticles: From Basic Design Principles to Emerging Applications in Soft Matter and (Bio)Nanosciences. Angewandte Chemie - International Edition, 2018, 57, 10436-10448.	13.8	41
75	Exceptionally Ductile and Tough Biomimetic Artificial Nacre with Gas Barrier Function. Advanced Materials, 2018, 30, e1802477.	21.0	81
76	Pathway-controlled formation of mesostructured all-DNA colloids and superstructures. Nature Nanotechnology, 2018, 13, 730-738.	31.5	85
77	Compartmentalized nanoparticles in aqueous solution through hierarchical self-assembly of triblock glycopolymers. Polymer Chemistry, 2018, 9, 4132-4142.	3.9	26
78	Visible Light [2 + 2] Cycloadditions for Reversible Polymer Ligation. Macromolecules, 2018, 51, 3802-3807.	4.8	84
79	Social Self-Sorting of Colloidal Families in Co-Assembling Microgel Systems. Angewandte Chemie - International Edition, 2017, 56, 2176-2182.	13.8	57
80	Social Self-Sorting of Colloidal Families in Co-Assembling Microgel Systems. Angewandte Chemie, 2017, 129, 2208-2214.	2.0	26
81	Large-scale, thick, self-assembled, nacre-mimetic brick-walls as fire barrier coatings on textiles. Scientific Reports, 2017, 7, 39910.	3.3	36
82	Materials learning from life: concepts for active, adaptive and autonomous molecular systems. Chemical Society Reviews, 2017, 46, 5588-5619.	38.1	375
83	Nanocellulose Aerogels for Supporting Iron Catalysts and In Situ Formation of Polyethylene Nanocomposites. Advanced Functional Materials, 2017, 27, 1605586.	14.9	57
84	Photonic Devices Out of Equilibrium: Transient Memory, Signal Propagation, and Sensing. Advanced Materials, 2017, 29, 1606842.	21.0	79
85	Switchable Supracolloidal Coassembly of Microgels Mediated by Host/Guest Interactions. ACS Macro Letters, 2017, 6, 310-314.	4.8	33
86	Light-Fueled, Spatiotemporal Modulation of Mechanical Properties and Rapid Self-Healing of Graphene-Doped Supramolecular Elastomers. Advanced Functional Materials, 2017, 27, 1700767.	14.9	55
87	Counterion Size and Nature Control Structural and Mechanical Response in Cellulose Nanofibril Nanopapers. Biomacromolecules, 2017, 18, 1642-1653.	5.4	50
88	Peptizing Mechanism at the Molecular Level of Laponite Nanoclay Gels. Langmuir, 2017, 33, 66-74.	3.5	5
89	Block Copolymer Micelles with Inverted Morphologies. Angewandte Chemie - International Edition, 2017, 56, 10992-10994.	13.8	36
90	Blockcopolymer-Mizellen mit inversen Morphologien. Angewandte Chemie, 2017, 129, 11136-11138.	2.0	9

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91	Antagonistic Enzymes in a Biocatalytic pH Feedback System Program Autonomous DNA Hydrogel Life Cycles. <i>Nano Letters</i> , 2017, 17, 4989-4995.	9.1	136
92	Dynamic covalent single chain nanoparticles based on hetero Diels-Alder chemistry. <i>Chemical Communications</i> , 2017, 53, 157-160.	4.1	27
93	Simple Platform Method for the Synthesis of Densely Functionalized Microgels by Modification of Active Ester Latex Particles. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1323-1330.	3.9	10
94	Bioinspired Mechanical Gradients in Cellulose Nanofibril/Polymer Nanopapers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5966-5970.	13.8	56
95	Hierarchische Selbstassemblierung dreidimensional gedruckter Schlüssel/Schloss-Kolloide durch Formerkennung. <i>Angewandte Chemie</i> , 2016, 128, 11429-11434.	2.0	6
96	Supramolecular Engineering of Hierarchically Self-Assembled, Bioinspired, Cholesteric Nanocomposites Formed by Cellulose Nanocrystals and Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11031-11040.	8.0	71
97	3D Structures of Responsive Nanocompartmentalized Microgels. <i>Nano Letters</i> , 2016, 16, 7295-7301.	9.1	90
98	Hierarchical Self-Assembly of 3D-Printed Lock-and-Key Colloids through Shape Recognition. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11261-11265.	13.8	35
99	Light-Adaptive Supramolecular Nacre-Mimetic Nanocomposites. <i>Nano Letters</i> , 2016, 16, 5176-5182.	9.1	42
100	3D DNA Origami Cuboids as Monodisperse Patchy Nanoparticles for Switchable Hierarchical Self-Assembly. <i>Nano Letters</i> , 2016, 16, 7870-7874.	9.1	70
101	Bioinspired Mechanical Gradients in Cellulose Nanofibril/Polymer Nanopapers. <i>Angewandte Chemie</i> , 2016, 128, 6070-6074.	2.0	22
102	Understanding Toughness in Bioinspired Cellulose Nanofibril/Polymer Nanocomposites. <i>Biomacromolecules</i> , 2016, 17, 2417-2426.	5.4	49
103	Cellulose Nanofibril Hydrogel Tubes as Sacrificial Templates for Freestanding Tubular Cell Constructs. <i>Biomacromolecules</i> , 2016, 17, 905-913.	5.4	63
104	Hierarchical Nacre Mimetics with Synergistic Mechanical Properties by Control of Molecular Interactions in Self-Healing Polymers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8653-8657.	13.8	139
105	Preparation of Highly Monodisperse Monopatch Particles with Orthogonal Click-Type Functionalization and Biorecognition. <i>Small</i> , 2015, 11, 4540-4548.	10.0	21
106	Biocatalytic Feedback-Driven Temporal Programming of Self-Regulating Peptide Hydrogels. <i>Angewandte Chemie</i> , 2015, 127, 13456-13460.	2.0	73
107	Biocatalytic Feedback-Driven Temporal Programming of Self-Regulating Peptide Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13258-13262.	13.8	218
108	Effect of Molecular Architecture of PDMAEMA-POEGMA Random and Block Copolymers on Their Adsorption on Regenerated and Anionic Nanocelluloses and Evidence of Interfacial Water Expulsion. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15275-15286.	2.6	30

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109	Combining the incompatible: Block copolymers consecutively displaying activated esters and amines and their use as protein-repellent surface modifiers with multivalent biorecognition. <i>Polymer Chemistry</i> , 2015, 6, 476-486.	3.9	13
110	Print your membrane: Rapid prototyping of complex 3D-PDMS membranes via a sacrificial resist. <i>Journal of Membrane Science</i> , 2015, 478, 12-18.	8.2	90
111	Cleaning the Click: A Simple Electrochemical Avenue for Copper Removal from Strongly Coordinating Macromolecules. <i>ACS Macro Letters</i> , 2015, 4, 298-301.	4.8	27
112	Aligned Bioinspired Cellulose Nanocrystal-Based Nanocomposites with Synergetic Mechanical Properties and Improved Hygromechanical Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4595-4607.	8.0	99
113	Nacre-mimetics with synthetic nanoclays up to ultrahigh aspect ratios. <i>Nature Communications</i> , 2015, 6, 5967.	12.8	252
114	Conducting, Self-Assembled, Nacre-Mimetic Polymer/Clay Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15681-15685.	8.0	44
115	Strong anionic polyelectrolyte microgels. <i>Polymer Chemistry</i> , 2015, 6, 5550-5554.	3.9	15
116	Bioactive Gyroid Scaffolds Formed by Sacrificial Templating of Nanocellulose and Nanochitin Hydrogels as Instructive Platforms for Biomimetic Tissue Engineering. <i>Advanced Materials</i> , 2015, 27, 2989-2995.	21.0	195
117	Self-Assembled, Iridescent, Crustacean-Mimetic Nanocomposites with Tailored Periodicity and Layered Cuticular Structure. <i>ACS Nano</i> , 2015, 9, 10637-10646.	14.6	166
118	Celebrating Soft Matter's 10th Anniversary: Approaches to program the time domain of self-assemblies. <i>Soft Matter</i> , 2015, 11, 7857-7866.	2.7	75
119	Polyacid microgels with adaptive hydrophobic pockets and ampholytic character: synthesis, solution properties and insights into internal nanostructure by cryogenic-TEM. <i>Soft Matter</i> , 2015, 11, 8342-8353.	2.7	28
120	Nanoscale hybrid silica/polymer Janus particles with a double-responsive hemicorona. <i>Polymer</i> , 2015, 79, 299-308.	3.8	22
121	Generic Concept to Program the Time Domain of Self-Assemblies with a Self-Regulation Mechanism. <i>Nano Letters</i> , 2015, 15, 2213-2219.	9.1	153
122	A Versatile Synthesis Platform To Prepare Uniform, Highly Functional Microgels via Click-Type Functionalization of Latex Particles. <i>Macromolecules</i> , 2014, 47, 2257-2267.	4.8	14
123	Mechanical Performance of Macrobundles of Cellulose and Chitin Nanofibrils Aligned by Wet-Stretching: A Critical Comparison. <i>Biomacromolecules</i> , 2014, 15, 2709-2717.	5.4	154
124	Polyglycidol-Based Prepolymers to Tune the Nanostructure of Microgels. <i>Macromolecules</i> , 2014, 47, 1633-1645.	4.8	19
125	Deoxyguanosine Phosphate Mediated Sacrificial Bonds Promote Synergistic Mechanical Properties in Nacre-Mimetic Nanocomposites. <i>Biomacromolecules</i> , 2013, 14, 2531-2535.	5.4	22
126	Nacre-Mimetic Clay/Xyloglucan Bionanocomposites: A Chemical Modification Route for Hygromechanical Performance at High Humidity. <i>Biomacromolecules</i> , 2013, 14, 3842-3849.	5.4	49

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127	Guided hierarchical co-assembly of soft patchy nanoparticles. <i>Nature</i> , 2013, 503, 247-251.	27.8	573
128	Humidity and Multiscale Structure Govern Mechanical Properties and Deformation Modes in Films of Native Cellulose Nanofibrils. <i>Biomacromolecules</i> , 2013, 14, 4497-4506.	5.4	230
129	Ionic supramolecular bonds preserve mechanical properties and enable synergetic performance at high humidity in water-borne, self-assembled nacre-mimetics. <i>Nanoscale</i> , 2013, 5, 9348.	5.6	62
130	Hydration and Dynamic State of Nanoconfined Polymer Layers Govern Toughness in Nacre-mimetic Nanocomposites. <i>Advanced Materials</i> , 2013, 25, 5055-5059.	21.0	57
131	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.	5.8	25
132	Influence of Janus Particle Shape on Their Interfacial Behavior at Liquid-Liquid Interfaces. <i>Langmuir</i> , 2013, 29, 1388-1394.	3.5	147
133	Janus Particles: Synthesis, Self-Assembly, Physical Properties, and Applications. <i>Chemical Reviews</i> , 2013, 113, 5194-5261.	47.7	1,512
134	Facile Access to Large-Scale, Self-Assembled, Nacre-Inspired, High-Performance Materials with Tunable Nanoscale Periodicities. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3738-3747.	8.0	121
135	Biomimetic Dopamine-Diels-Alder Switches. <i>Macromolecular Rapid Communications</i> , 2013, 34, 640-644.	3.9	33
136	Amphiphilic Diblock Copolymer and Polycaprolactone Blends to Produce New Vesicular Nanocarriers. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 272-279.	1.1	7
137	Facile, Solution-Based Synthesis of Soft, Nanoscale Janus Particles with Tunable Janus Balance. <i>Journal of the American Chemical Society</i> , 2012, 134, 13850-13860.	13.7	247
138	Facile Method for Stiff, Tough, and Strong Nanocomposites by Direct Exfoliation of Multilayered Graphene into Native Nanocellulose Matrix. <i>Biomacromolecules</i> , 2012, 13, 1093-1099.	5.4	126
139	Soft, Nanoscale Janus Particles by Macromolecular Engineering and Molecular Self-assembly. <i>RSC Smart Materials</i> , 2012, , 1-28.	0.1	2
140	Tough and Catalytically Active Hybrid Biofibers Wet-Spun From Nanochitin Hydrogels. <i>Biomacromolecules</i> , 2012, 13, 4205-4212.	5.4	61
141	Precise hierarchical self-assembly of multicompartment micelles. <i>Nature Communications</i> , 2012, 3, 710.	12.8	504
142	Blue, green and red emissive silver nanoclusters formed in organic solvents. <i>Nanoscale</i> , 2012, 4, 4434.	5.6	88
143	Superparamagnetic and fluorescent thermo-responsive core-shell-corona hybrid nanogels with a protective silica shell. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 45-53.	9.4	47
144	Janus Cylinders at Liquid-Liquid Interfaces. <i>Langmuir</i> , 2011, 27, 9807-9814.	3.5	117

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145	Colloidal Ionic Assembly between Anionic Native Cellulose Nanofibrils and Cationic Block Copolymer Micelles into Biomimetic Nanocomposites. <i>Biomacromolecules</i> , 2011, 12, 2074-2081.	5.4	78
146	Clay Nanopaper with Tough Cellulose Nanofiber Matrix for Fire Retardancy and Gas Barrier Functions. <i>Biomacromolecules</i> , 2011, 12, 633-641.	5.4	383
147	Janus Triad: Three Types of Nonspherical, Nanoscale Janus Particles from One Single Triblock Terpolymer. <i>Macromolecules</i> , 2011, 44, 9221-9229.	4.8	46
148	Polyelectrolyte Brushes Grafted from Cellulose Nanocrystals Using Cu-Mediated Surface-Initiated Controlled Radical Polymerization. <i>Biomacromolecules</i> , 2011, 12, 2997-3006.	5.4	155
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