Nathan C Gianneschi

List of Publications by Year
in descending order

211 papers	10,945 citations	26567 56 h-index	38300 95 g-index
217 all docs	217 docs citations	217 times ranked	13552 citing authors

#	Article	IF	Citations
1	Development of a Coordination Chemistry-Based Approach for Functional Supramolecular Structures. Accounts of Chemical Research, 2005, 38, 825-837.	7.6	530
2	Seeded growth of single-crystal two-dimensional covalent organic frameworks. Science, 2018, 361, 52-57.	6.0	474
3	Stimuli-Responsive Nanomaterials for Biomedical Applications. Journal of the American Chemical Society, 2015, 137, 2140-2154.	6.6	442
4	Calcium phosphate-bearing matrices induce osteogenic differentiation of stem cells through adenosine signaling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 990-995.	3.3	302
5	A Supramolecular Approach to an Allosteric Catalyst. Journal of the American Chemical Society, 2003, 125, 10508-10509.	6.6	253
6	Bio-Inspired Structural Colors Produced <i>via</i> Self-Assembly of Synthetic Melanin Nanoparticles. ACS Nano, 2015, 9, 5454-5460.	7.3	244
7	Enzymeâ€Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction. Advanced Materials, 2015, 27, 5547-5552.	11.1	229
8	Therapeutic Enzymeâ€Responsive Nanoparticles for Targeted Delivery and Accumulation in Tumors. Advanced Materials, 2015, 27, 4611-4615.	11.1	218
9	Colloidal Covalent Organic Frameworks. ACS Central Science, 2017, 3, 58-65.	5.3	216
10	Single Crystals of Electrically Conductive Two-Dimensional Metalâ€"Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964.	5.3	211
11	Observing the Growth of Metalâ€"Organic Frameworks by <i>in Situ</i> Liquid Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2015, 137, 7322-7328.	6.6	207
12	Programmable Shapeâ€Shifting Micelles. Angewandte Chemie - International Edition, 2010, 49, 5076-5080.	7.2	201
13	Xâ€Ray Computed Tomography Imaging of Breast Cancer by using Targeted Peptideâ€Labeled Bismuth Sulfide Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 12308-12311.	7.2	190
14	Signal Amplification and Detection via a Supramolecular Allosteric Catalyst. Journal of the American Chemical Society, 2005, 127, 1644-1645.	6.6	185
15	Bioinspired bright noniridescent photonic melanin supraballs. Science Advances, 2017, 3, e1701151.	4.7	177
16	Unraveling the Structure and Function of Melanin through Synthesis. Journal of the American Chemical Society, 2021, 143, 2622-2637.	6.6	174
17	Controlling and Switching the Morphology of Micellar Nanoparticles with Enzymes. Journal of the American Chemical Society, 2011, 133, 8392-8395.	6.6	166
18	Supramolecular Allosteric Cofacial Porphyrin Complexes. Journal of the American Chemical Society, 2006, 128, 16286-16296.	6.6	131

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19	Acid Exfoliation of Imineâ€linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. Angewandte Chemie - International Edition, 2020, 59, 5165-5171.	7.2	128
20	Structure and Function of Iron-Loaded Synthetic Melanin. ACS Nano, 2016, 10, 10186-10194.	7.3	127
21	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. ACS Central Science, 2017, 3, 564-569.	5.3	118
22	Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 17140-17151.	6.6	118
23	Controlled growth of imine-linked two-dimensional covalent organic framework nanoparticles. Chemical Science, 2019, 10, 3796-3801.	3.7	118
24	Allosterically Regulated Supramolecular Catalysis of Acyl Transfer Reactions for Signal Amplification and Detection of Small Molecules. Journal of the American Chemical Society, 2007, 129, 10149-10158.	6.6	109
25	ROMPISA: Ring-Opening Metathesis Polymerization-Induced Self-Assembly. ACS Macro Letters, 2017, 6, 925-929.	2.3	108
26	Enzyme-Directed Assembly of Nanoparticles in Tumors Monitored by <i>in Vivo</i> Whole Animal Imaging and <i>ex Vivo</i> Super-Resolution Fluorescence Imaging. Journal of the American Chemical Society, 2013, 135, 18710-18713.	6.6	104
27	Stimuli-Responsive Structurally Colored Films from Bioinspired Synthetic Melanin Nanoparticles. Chemistry of Materials, 2016, 28, 5516-5521.	3.2	101
28	Dynamics of Soft Nanomaterials Captured by Transmission Electron Microscopy in Liquid Water. Journal of the American Chemical Society, 2014, 136, 1162-1165.	6.6	96
29	Interrogating Kinetic versus Thermodynamic Topologies of Metalâ€“Organic Frameworks via Combined Transmission Electron Microscopy and X-ray Diffraction Analysis. Journal of the American Chemical Society, 2019, 141, 6146-6151.	6.6	94
30	Polymerization-Induced Self-Assembly of Micelles Observed by Liquid Cell Transmission Electron Microscopy. ACS Central Science, 2018, 4, 543-547.	5.3	89
31	Nuclease-Resistant DNA <i>via</i> High-Density Packing in Polymeric Micellar Nanoparticle Coronas. ACS Nano, 2013, 7, 1379-1387.	7.3	88
32	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. Chemistry of Materials, 2017, 29, 8195-8201.	3.2	80
33	Biological stimuli and biomolecules in the assembly and manipulation of nanoscale polymeric particles. Chemical Science, 2012, 3, 1363.	3.7	79
34	Enzyme-responsive progelator cyclic peptides for minimally invasive delivery to the heart post-myocardial infarction. Nature Communications, 2019, 10, 1735.	5.8	79
35	Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 19728-19735.	6.6	79
36	Enzymeâ€Directed Assembly of a Nanoparticle Probe in Tumor Tissue. Advanced Materials, 2013, 25, 3599-3604.	11.1	78

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37	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11.	7.6	78
38	Enzyme-directed assembly and manipulation of organic nanomaterials. Chemical Communications, 2011, 47, 11814.	2.2	74
39	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. ACS Central Science, 2016, 2, 40-47.	5.3	74
40	Smart Lipids for Programmable Nanomaterials. Nano Letters, 2010, 10, 2690-2693.	4.5	73
41	Insights into the Enhanced Catalytic Activity of Cytochrome c When Encapsulated in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 18576-18582.	6.6	73
42	Design of Molecular Logic Devices Based on a Programmable DNA-Regulated Semisynthetic Enzyme. Angewandte Chemie - International Edition, 2007, 46, 3955-3958.	7.2	71
43	Phase Transitions in Metalâ€“Organic Frameworks Directly Monitored through In Situ Variable Temperature Liquid-Cell Transmission Electron Microscopy and In Situ X-ray Diffraction. Journal of the American Chemical Society, 2020, 142, 4609-4615.	6.6	69
44	Enhanced Magnetic Resonance Contrast of Fe₃O₄ Nanoparticles Trapped in a Porous Silicon Nanoparticle Host. Advanced Materials, 2011, 23, H248-53.	11.1	68
45	Peptides Displayed as High Density Brush Polymers Resist Proteolysis and Retain Bioactivity. Journal of the American Chemical Society, 2014, 136, 15422-15437.	6.6	67
46	Biosynthetic Polymers as Functional Materials. Macromolecules, 2016, 49, 4379-4394.	2.2	67
47	Highâ€Sensitivity Acoustic Molecular Sensors Based on Largeâ€Area, Sprayâ€Coated 2D Covalent Organic Frameworks. Advanced Materials, 2020, 32, e2004205.	11.1	67
48	Dinuclear Platinum Complexes with Hydrogen-Bonding Functionality:â€‰ Noncovalent Assembly of Nanoscale Cyclic Arrays. Journal of the American Chemical Society, 2000, 122, 8474-8479.	6.6	65
49	Polymer brush hypersurface photolithography. Nature Communications, 2020, 11, 1244.	5.8	65
50	Polymerization of protecting-group-free peptides via ROMP. Polymer Chemistry, 2013, 4, 3929.	1.9	64
51	Polycatechol Nanoparticle MRI Contrast Agents. Small, 2016, 12, 668-677.	5.2	64
52	Gadolinium Doping Enhances the Photoacoustic Signal of Synthetic Melanin Nanoparticles: A Dual Modality Contrast Agent for Stem Cell Imaging. Chemistry of Materials, 2019, 31, 251-259.	3.2	64
53	Intracellular mRNA Regulation with Self-Assembled Locked Nucleic Acid Polymer Nanoparticles. Journal of the American Chemical Society, 2014, 136, 7615-7618.	6.6	62
54	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. Materials Horizons, 2019, 6, 1868-1876.	6.4	62

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55	Aqueous-Phase Ring-Opening Metathesis Polymerization-Induced Self-Assembly. ACS Macro Letters, 2018, 7, 401-405.	2.3	61
56	Antitumor Activity of 1,18-Octadecanedioic Acid-Paclitaxel Complexed with Human Serum Albumin. Journal of the American Chemical Society, 2019, 141, 11765-11769.	6.6	61
57	Polymer-Stabilized Perfluorobutane Nanodroplets for Ultrasound Imaging Agents. Journal of the American Chemical Society, 2017, 139, 15-18.	6.6	59
58	Activating peptides for cellular uptake via polymerization into high density brushes. Chemical Science, 2016, 7, 989-994.	3.7	57
59	Artificial Allomelanin Nanoparticles. ACS Nano, 2019, 13, 10980-10990.	7.3	57
60	Insights into the Structure and Dynamics of Metalâ€"Organic Frameworks via Transmission Electron Microscopy. Journal of the American Chemical Society, 2020, 142, 17224-17235.	6.6	57
61	Pore Breathing of Metalâ€"Organic Frameworks by Environmental Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 13973-13976.	6.6	56
62	Self-assembling peptides imaged by correlated liquid cell transmission electron microscopy and MALDI-imaging mass spectrometry. Nature Communications, 2019, 10, 4837.	5.8	56
63	Discovering de novo peptide substrates for enzymes using machine learning. Nature Communications, 2018, 9, 5253.	5.8	55
64	Mimicking Natural Human Hair Pigmentation with Synthetic Melanin. ACS Central Science, 2020, 6, 1179-1188.	5.3	55
65	Developing injectable nanomaterials to repair the heart. Current Opinion in Biotechnology, 2015, 34, 225-231.	3.3	52
66	Fluorogenic enzyme-responsive micellar nanoparticles. Chemical Science, 2012, 3, 2690.	3.7	51
67	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 1348-1357.	6.6	51
68	Phase Diagrams of Polynorbornene Amphiphilic Block Copolymers in Solution. Macromolecules, 2015, 48, 1152-1161.	2.2	50
69	Poly(peptide): Synthesis, Structure, and Function of Peptideâ€"Polymer Amphiphiles and Protein-like Polymers. Accounts of Chemical Research, 2020, 53, 400-413.	7.6	50
70	Proapoptotic Peptide Brush Polymer Nanoparticles via Photoinitiated Polymerizationâ€Induced Selfâ€Assembly. Angewandte Chemie - International Edition, 2020, 59, 19136-19142.	7.2	49
71	High Relaxivity Gadoliniumâ€Polydopamine Nanoparticles. Small, 2017, 13, 1701830.	5.2	48
72	Degradable polymers via olefin metathesis polymerization. Progress in Polymer Science, 2021, 120, 101427.	11.8	48

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73	Recent Advances in Amphiphilic Polymerâ€“Oligonucleotide Nanomaterials via Living/Controlled Polymerization Technologies. Bioconjugate Chemistry, 2019, 30, 1889-1904.	1.8	47
74	Hierarchical spidroin micellar nanoparticles as the fundamental precursors of spider silks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11507-11512.	3.3	46
75	Peptide Brush Polymers and Nanoparticles with Enzyme-Regulated Structure and Charge for Inducing or Evading Macrophage Cell Uptake. ACS Nano, 2017, 11, 9877-9888.	7.3	45
76	Labelling polymers and micellar nanoparticles via initiation, propagation and termination with ROMP. Polymer Chemistry, 2014, 5, 1954-1964.	1.9	44
77	Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. ACS Central Science, 2019, 5, 1892-1899.	5.3	44
78	Bio-inspired CO₂reduction by a rhenium tricarbonyl bipyridine-based catalyst appended to amino acids and peptidic platforms: incorporating proton relays and hydrogen-bonding functional groups. Faraday Discussions, 2017, 198, 279-300.	1.6	42
79	Bioactive Peptide Brush Polymers via Photoinduced Reversibleâ€Deactivation Radical Polymerization. Angewandte Chemie - International Edition, 2019, 58, 17359-17364.	7.2	42
80	Elucidating the Growth of Metalâ€“Organic Nanotubes Combining Isoreticular Synthesis with Liquid-Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2019, 141, 10177-10182.	6.6	42
81	Allomelanin: A Biopolymer of Intrinsic Microporosity. Journal of the American Chemical Society, 2021, 143, 4005-4016.	6.6	41
82	Poly(oligonucleotide). Journal of the American Chemical Society, 2014, 136, 11216-11219.	6.6	40
83	The Copolymer Blending Method: A New Approach for Targeted Assembly of Micellar Nanoparticles. Macromolecules, 2015, 48, 6516-6522.	2.2	40
84	Fluorocarbon Modified Low-Molecular-Weight Polyethylenimine for siRNA Delivery. Bioconjugate Chemistry, 2016, 27, 1784-1788.	1.8	39
85	Tumor Retention of Enzyme-Responsive Pt(II) Drug-Loaded Nanoparticles Imaged by Nanoscale Secondary Ion Mass Spectrometry and Fluorescence Microscopy. ACS Central Science, 2018, 4, 1477-1484.	5.3	39
86	One-pot universal initiation-growth methods from a liquid crystalline block copolymer. Nature Communications, 2019, 10, 2397.	5.8	39
87	Micellar Thrombin-Binding Aptamers: Reversible Nanoscale Anticoagulants. Journal of the American Chemical Society, 2017, 139, 16442-16445.	6.6	38
88	Facile Procedure for Generating Side Chain Functionalized Poly(Î±-hydroxy acid) Copolymers from Aldehydes via a Versatile Passerini-Type Condensation. Organic Letters, 2010, 12, 3560-3563.	2.4	36
89	Cellular Delivery of Nanoparticles Revealed with Combined Optical and Isotopic Nanoscopy. ACS Nano, 2016, 10, 4046-4054.	7.3	36
90	Enzymeâ€Responsive Polymer Nanoparticles via Ringâ€Opening Metathesis Polymerizationâ€Induced Selfâ€Assembly. Macromolecular Rapid Communications, 2019, 40, e1800467.	2.0	36

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91	Delivery of Immunotherapeutic Nanoparticles to Tumors via Enzymeâ€Directed Assembly. Advanced Healthcare Materials, 2019, 8, e1901105.	3.9	35
92	Selenomelanin: An Abiotic Selenium Analogue of Pheomelanin. Journal of the American Chemical Society, 2020, 142, 12802-12810.	6.6	34
93	Characterization of drug encapsulation and retention in archaea-inspired tetraether liposomes. Organic and Biomolecular Chemistry, 2017, 15, 2157-2162.	1.5	33
94	Enhancing and Mitigating Radiolytic Damage to Soft Matter in Aqueous Phase Liquid-Cell Transmission Electron Microscopy in the Presence of Gold Nanoparticle Sensitizers or Isopropanol Scavengers. Nano Letters, 2021, 21, 1141-1149.	4.5	33
95	Probing Thermoresponsive Polymerization-Induced Self-Assembly with Variable-Temperature Liquid-Cell Transmission Electron Microscopy. Matter, 2021, 4, 722-736.	5.0	33
96	Polymerization of a peptide-based enzyme substrate. Chemical Communications, 2013, 49, 2873.	2.2	32
97	Bait-and-Switch Supramolecular Strategy To Generate Noncationic RNAâ€“Polymer Complexes for RNA Delivery. Biomacromolecules, 2019, 20, 435-442.	2.6	31
98	Acid Exfoliation of Imineâ€linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. Angewandte Chemie, 2020, 132, 5203-5209.	1.6	31
99	Charged Macromolecular Rhenium Bipyridine Catalysts with Tunable CO 2 Reduction Potentials. Chemistry - A European Journal, 2017, 23, 8619-8622.	1.7	30
100	Degradable Polyphosphoramidate via Ring-Opening Metathesis Polymerization. ACS Macro Letters, 2020, 9, 1417-1422.	2.3	30
101	Synthetic Porous Melanin. Journal of the American Chemical Society, 2021, 143, 3094-3103.	6.6	30
102	Catalytic Degradation of Polyethylene Terephthalate Using a Phaseâ€Transitional Zirconiumâ€Based Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
103	Blending block copolymer micelles in solution; obstacles of blending. Polymer Chemistry, 2016, 7, 1577-1583.	1.9	29
104	DNAâ€“nanoparticle micelles as supramolecular fluorogenic substrates enabling catalytic signal amplification and detection by DNAzyme probes. Chemical Communications, 2011, 47, 167-169.	2.2	28
105	Ring-opening metathesis polymerization-induced self-assembly (ROMPISA) of a cisplatin analogue for high drug-loaded nanoparticles. Polymer Chemistry, 2019, 10, 2996-3000.	1.9	28
106	Transient Catenation in a Zirconium-Based Metalâ€“Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. Journal of the American Chemical Society, 2021, 143, 1503-1512.	6.6	28
107	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. Chemical Science, 2016, 7, 4230-4236.	3.7	26
108	Self-Transfecting Micellar RNA: Modulating Nanoparticle Cell Interactions via High Density Display of Small Molecule Ligands on Micelle Coronas. Bioconjugate Chemistry, 2018, 29, 126-135.	1.8	26

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109	Electronically Coupled 2D Polymer/MoS₂ Heterostructures. Journal of the American Chemical Society, 2020, 142, 21131-21139.	6.6	25
110	100th Anniversary of Macromolecular Science Viewpoint: Polymeric Materials by <i>In Situ</i> Liquid-Phase Transmission Electron Microscopy. ACS Macro Letters, 2021, 10, 14-38.	2.3	25
111	Mapping Grains, Boundaries, and Defects in 2D Covalent Organic Framework Thin Films. Chemistry of Materials, 2021, 33, 1341-1352.	3.2	25
112	Dual-responsive nanoparticles release cargo upon exposure to matrix metalloproteinase and reactive oxygen species. Chemical Communications, 2016, 52, 2126-2128.	2.2	24
113	Block Copolymer Amphiphile Phase Diagrams by High-Throughput Transmission Electron Microscopy. Macromolecules, 2019, 52, 5529-5537.	2.2	24
114	Mussel Adhesive-Inspired Proteomimetic Polymer. Journal of the American Chemical Society, 2022, 144, 4383-4392.	6.6	24
115	A Tetranuclear Heterobimetallic Square Formed from the Cooperative Ligand Binding Properties of Square Planar and Tetrahedral Metal Centers. Inorganic Chemistry, 2002, 41, 5326-5328.	1.9	23
116	Innovations in Disease State Responsive Soft Materials for Targeting Extracellular Stimuli Associated with Cancer, Cardiovascular Disease, Diabetes, and Beyond. Advanced Materials, 2021, 33, e2007504.	11.1	23
117	Enzyme-Induced Kinetic Control of Peptideâ€“Polymer Micelle Morphology. ACS Macro Letters, 2019, 8, 676-681.	2.3	22
118	Characterization of broadband complex refractive index of synthetic melanin coatings and their changes after ultraviolet irradiation. Applied Physics Letters, 2020, 117, .	1.5	22
119	Liquid Crystal Interfaces Programmed with Enzymeâ€Responsive Polymers and Surfactants. Small, 2015, 11, 5747-5751.	5.2	21
120	Peptide Brush Polymers for Efficient Delivery of a Gene Editing Protein to Stem Cells. Angewandte Chemie - International Edition, 2019, 58, 15646-15649.	7.2	21
121	In Situ Ni²⁺ Stain for Liposome Imaging by Liquid-Cell Transmission Electron Microscopy. Nano Letters, 2020, 20, 4292-4297.	4.5	21
122	Dipeptide Nanostructure Assembly and Dynamics <i>via in Situ</i> Liquid-Phase Electron Microscopy. ACS Nano, 2021, 15, 16542-16551.	7.3	21
123	Bioinspired Chemoenzymatic Route to Artificial Melanin for Hair Pigmentation. Chemistry of Materials, 2020, 32, 9201-9210.	3.2	20
124	Printing a Wide Gamut of Saturated Structural Colors Using Binary Mixtures, With Applications in Anticounterfeiting. ACS Applied Materials & Interfaces, 2020, 12, 19882-19889.	4.0	20
125	Dual responsive polymeric nanoparticles prepared by direct functionalization of polylactic acid-based polymers via graft-from ring opening metathesis polymerization. Chemical Communications, 2016, 52, 567-570.	2.2	19
126	Enzyme-targeted nanoparticles for delivery to ischemic skeletal muscle. Polymer Chemistry, 2017, 8, 5212-5219.	1.9	19

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127	Mechanism of UVA Degradation of Synthetic Eumelanin. Biomacromolecules, 2019, 20, 4593-4601.	2.6	19
128	Experimental and theoretical evidence for molecular forces driving surface segregation in photonic colloidal assemblies. Science Advances, 2019, 5, eaax1254.	4.7	19
129	<i>In Situ</i> Monitoring of the Seeding and Growth of Silver Metalâ€"Organic Nanotubes by Liquid-Cell Transmission Electron Microscopy. ACS Nano, 2020, 14, 8735-8743.	7.3	19
130	Thermoresponsive polymer assemblies via variable temperature liquid-phase transmission electron microscopy and small angle X-ray scattering. Nature Communications, 2021, 12, 6568.	5.8	19
131	Phosphorescent Pt(<scp>ii</scp>) complexes spatially arrayed in micellar polymeric nanoparticles providing dual readout for multimodal imaging. Chemical Communications, 2019, 55, 501-504.	2.2	18
132	Complex Nanoparticle Diffusional Motion in Liquid-Cell Transmission Electron Microscopy. Journal of Physical Chemistry C, 2020, 124, 14881-14890.	1.5	18
133	Optical monitoring of polymerizations in droplets with high temporal dynamic range. Chemical Science, 2020, 11, 2647-2656.	3.7	18
134	Cyclic (Alkyl)(Amino)Carbene (CAAC) Gold(I) Complexes as Chemotherapeutic Agents. Chemistry - A European Journal, 2021, 27, 3772-3778.	1.7	18
135	Anisotropic Synthetic Allomelanin Materials via Solidâ€State Polymerization of Selfâ€Assembled 1,8â€Dihydroxynaphthalene Dimers. Angewandte Chemie - International Edition, 2021, 60, 17464-17471.	7.2	18
136	Enzyme-regulated topology of a cyclic peptide brush polymer for tuning assembly. Chemical Communications, 2015, 51, 17108-17111.	2.2	17
137	Modulation of crystal growth and structure within cerium-based metalâ€"organic frameworks. CrystEngComm, 2020, 22, 8182-8188.	1.3	17
138	Radical-Enriched Artificial Melanin. Chemistry of Materials, 2020, 32, 5759-5767.	3.2	17
139	Multiâ€Scale Responses of Liquid Crystals Triggered by Interfacial Assemblies of Cleavable Homopolymers. ChemPhysChem, 2018, 19, 2037-2045.	1.0	16
140	Orthogonal Images Concealed Within a Responsive 6â€Dimensional Hypersurface. Advanced Materials, 2021, 33, e2100803.	11.1	16
141	Non-Iridescent Structural Color Control <i>via</i> Inkjet Printing of Self-Assembled Synthetic Melanin Nanoparticles. Chemistry of Materials, 2021, 33, 6433-6442.	3.2	15
142	Direct Observation of Emulsion Morphology, Dynamics, and Demulsification. ACS Nano, 2022, 16, 7783-7793.	7.3	15
143	Structural Color Production in Melaninâ€Based Disordered Colloidal Nanoparticle Assemblies in Spherical Confinement. Advanced Optical Materials, 2022, 10, .	3.6	15
144	Biomolecular Densely Grafted Brush Polymers: Oligonucleotides, Oligosaccharides and Oligopeptides. Angewandte Chemie - International Edition, 2020, 59, 19762-19772.	7.2	14

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145	A Catalytically Accessible Polyoxometalate in a Porous Fiber for Degradation of a Mustard Gas Simulant. ACS Applied Materials & Interfaces, 2022, 14, 16687-16693.	4.0	14
146	Soft nanomaterials analysed by in situ liquid TEM: Towards high resolution characterisation of nanoparticles in motion. Perspectives in Science, 2015, 6, 106-112.	0.6	13
147	Paclitaxel-terminated peptide brush polymers. Chemical Communications, 2020, 56, 6778-6781.	2.2	13
148	Controlled nâ€Doping of Naphthaleneâ€Diimideâ€Based 2D Polymers. Advanced Materials, 2022, 34, e2101932.	11.1	13
149	A Morphologyâ€Dependent Bioâ€organic Template for Inorganic Nanowire Synthesis. Small, 2011, 7, 2041-2046.	5.2	12
150	Picoliter Drop-On-Demand Dispensing for Multiplex Liquid Cell Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 507-514.	0.2	12
151	Tuning the ultrasonic and photoacoustic response of polydopamine-stabilized perfluorocarbon contrast agents. Journal of Materials Chemistry B, 2019, 7, 4833-4842.	2.9	12
152	Inside polyMOFs: layered structures in polymer-based metalâ€"organic frameworks. Chemical Science, 2020, 11, 10523-10528.	3.7	12
153	Design Principles for Triggerable Polymeric Amphiphiles with Mesogenic Side Chains for Multiscale Responses with Liquid Crystals. Macromolecules, 2018, 51, 1978-1985.	2.2	11
154	Lipophilic indocarbocyanine conjugates for efficient incorporation of enzymes, antibodies and small molecules into biological membranes. Biomaterials, 2018, 161, 57-68.	5.7	11
155	Fluorous-phase iron oxide nanoparticles as enhancers of acoustic droplet vaporization of perfluorocarbons with supra-physiologic boiling point. Journal of Controlled Release, 2019, 302, 54-62.	4.8	11
156	Squeezing the box: isoreticular contraction of pyrene-based linker in a Zr-based metalâ€"organic framework for Xe/Kr separation. Dalton Transactions, 2020, 49, 6553-6556.	1.6	11
157	Structurally Colored Inks from Synthetic Melanin-Based Crosslinked Supraparticles. , 2021, 3, 50-55.		11
158	pHâ€Responsive Chargeâ€Conversion Progelator Peptides. Advanced Functional Materials, 2021, 31, 2007733.	7.8	11
159	Organic solution-phase transmission electron microscopy of copolymer nanoassembly morphology and dynamics. Cell Reports Physical Science, 2022, 3, 100772.	2.8	11
160	Tapping a Bacterial Enzymatic Pathway for the Preparation and Manipulation of Synthetic Nanomaterials. Journal of the American Chemical Society, 2014, 136, 17378-17381.	6.6	10
161	Proapoptotic Peptide Brush Polymer Nanoparticles via Photoinitiated Polymerizationâ€Induced Selfâ€Assembly. Angewandte Chemie, 2020, 132, 19298-19304.	1.6	10
162	The evolution of darker wings in seabirds in relation to temperature-dependent flight efficiency. Journal of the Royal Society Interface, 2021, 18, 20210236.	1.5	10

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163	Origin of Proteolytic Stability of Peptide-Brush Polymers as Globular Proteomimetics. ACS Central Science, 2021, 7, 2063-2072.	5.3	10
164	Rapid Generation of Metalâ€"Organic Framework Phase Diagrams by High-Throughput Transmission Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 6674-6680.	6.6	10
165	Dye Encapsulation in Polynorbornene Micelles. Langmuir, 2015, 31, 9707-9717.	1.6	9
166	Targeted nanoscale therapeutics for myocardial infarction. Biomaterials Science, 2021, 9, 1204-1216.	2.6	9
167	Lipogels for Encapsulation of Hydrophilic Proteins and Hydrophobic Small Molecules. Biomacromolecules, 2018, 19, 132-140.	2.6	8
168	Chemical and physical transformations of carbon-based nanomaterials observed by liquid phase transmission electron microscopy. MRS Bulletin, 2020, 45, 727-737.	1.7	8
169	Enzyme-Directed Functionalization of Designed, Two-Dimensional Protein Lattices. Biochemistry, 2021, 60, 1050-1062.	1.2	8
170	Glycopolymer Microarrays with Subâ€Femtomolar Avidity for Glycan Binding Proteins Prepared by Graftedâ€To/Graftedâ€From Photopolymerizations. Angewandte Chemie - International Edition, 2021, 60, 20350-20357.	7.2	8
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