

# Materials learning from life: concepts for active, adaptive systems

Chemical Society Reviews

46, 5588-5619

DOI: [10.1039/c6cs00738d](https://doi.org/10.1039/c6cs00738d)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Mapping the structural boundaries of quasiracemate fractional crystallization using 2-substituted diarylamides. <i>Chemical Communications</i> , 2017, 53, 4601-4604.	2.2	7
2	Systems chemistry. <i>Chemical Society Reviews</i> , 2017, 46, 2543-2554.	18.7	415
3	Programmierbare transiente Thermogele vermittelt durch eine pH- und Redox-regulierte supramolekulare Polymerisation. <i>Angewandte Chemie</i> , 2017, 129, 15664-15669.	1.6	30
4	Stimulated Transitions of Directed Nonequilibrium Self-Assemblies. <i>Advanced Materials</i> , 2017, 29, 1703495.	11.1	25
5	Tuneable Transient Thermogels Mediated by a pH- and Redox-Regulated Supramolecular Polymerization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15461-15465.	7.2	101
6	Dynamic Chemistry-Based Sensing: A Molecular System for Detection of Saccharide, Formaldehyde, and the Silver Ion. <i>Analytical Chemistry</i> , 2017, 89, 9360-9367.	3.2	19
7	Self-Regulated and Temporal Control of a "Breathing" Microgel Mediated by Enzymatic Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12581-12585.	7.2	66
8	Self-Regulated and Temporal Control of a "Breathing" Microgel Mediated by Enzymatic Reaction. <i>Angewandte Chemie</i> , 2017, 129, 12755-12759.	1.6	22
9	Temporal switching of an amphiphilic self-assembly by a chemical fuel-driven conformational response. <i>Chemical Science</i> , 2017, 8, 6030-6036.	3.7	69
10	Antagonistic Enzymes in a Biocatalytic pH Feedback System Program Autonomous DNA Hydrogel Life Cycles. <i>Nano Letters</i> , 2017, 17, 4989-4995.	4.5	136
11	Adenosine-Phosphate-Fueled, Temporally Programmed Supramolecular Polymers with Multiple Transient States. <i>Journal of the American Chemical Society</i> , 2017, 139, 16568-16575.	6.6	139
12	Microsphere-to-nanotube transition via <i>in situ</i> sonication triggered in a supramolecular self-assembly system based on triphenylamine derivative. <i>Supramolecular Chemistry</i> , 2018, 30, 674-680.	1.5	3
13	Application of novel nanocomposite-modified electrodes for identifying rice wines of different brands. <i>RSC Advances</i> , 2018, 8, 13333-13343.	1.7	3
14	Spatially controlled clustering of nucleotide-stabilized vesicles. <i>Chemical Communications</i> , 2018, 54, 4818-4821.	2.2	10
15	Feedback-Induced Temporal Control of "Breathing" Polymersomes To Create Self-Adaptive Nanoreactors. <i>Journal of the American Chemical Society</i> , 2018, 140, 5356-5359.	6.6	176
16	Dissipative Synthetic DNA-Based Receptors for the Transient Loading and Release of Molecular Cargo. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10489-10493.	7.2	82
17	Complex dynamics in a two-enzyme reaction network with substrate competition. <i>Nature Catalysis</i> , 2018, 1, 276-281.	16.1	66
18	Networking switches for smart functions using copper signaling and dynamic heteroleptic complexation. <i>Dalton Transactions</i> , 2018, 47, 6654-6659.	1.6	7

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19	Exploitation of Feedback in Enzyme-catalysed Reactions. <i>Israel Journal of Chemistry</i> , 2018, 58, 706-713.	1.0	3
20	Kinetically Controlled Lifetimes in Redox-Responsive Transient Supramolecular Hydrogels. <i>Journal of the American Chemical Society</i> , 2018, 140, 2869-2874.	6.6	117
21	Temporally Controlled Supramolecular Polymerization. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 687-699.	2.0	106
22	Dissipative disassembly of colloidal microgel crystals driven by a coupled cyclic reaction network. <i>Soft Matter</i> , 2018, 14, 910-915.	1.2	27
23	Fuel-Selective Transient Activation of Nanosystems for Signal Generation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1611-1615.	7.2	50
24	Fuel-Selective Transient Activation of Nanosystems for Signal Generation. <i>Angewandte Chemie</i> , 2018, 130, 1627-1631.	1.6	30
25	Photochromism into nanosystems: towards lighting up the future nanoworld. <i>Chemical Society Reviews</i> , 2018, 47, 1044-1097.	18.7	549
26	Dissipative Synthetic DNA-Based Receptors for the Transient Loading and Release of Molecular Cargo. <i>Angewandte Chemie</i> , 2018, 130, 10649-10653.	1.6	35
27	Recent advances in smart hydrogels for biomedical applications: From self-assembly to functional approaches. <i>European Polymer Journal</i> , 2018, 99, 117-133.	2.6	179
28	Nonequilibrium Spatiotemporal Sensing within Acoustically Patterned Two-Dimensional Protocell Arrays. <i>ACS Central Science</i> , 2018, 4, 1551-1558.	5.3	42
29	Substrate-Induced Self-Assembly of Cooperative Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16469-16474.	7.2	76
30	Supramolecular Electropolymerization. <i>Angewandte Chemie</i> , 2018, 130, 15975-15979.	1.6	14
31	Supramolecular Electropolymerization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15749-15753.	7.2	38
32	Substrate-Induced Self-Assembly of Cooperative Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 16707-16712.	1.6	33
33	Energy consumption in chemical fuel-driven self-assembly. <i>Nature Nanotechnology</i> , 2018, 13, 882-889.	15.6	306
34	Bioinspired temporal supramolecular polymerization. <i>RSC Advances</i> , 2018, 8, 18913-18925.	1.7	45
35	Dissipative assemblies that inhibit their deactivation. <i>Soft Matter</i> , 2018, 14, 4852-4859.	1.2	53
36	Self-sustained actuation from heat dissipation in liquid crystal polymer networks. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1331-1336.	2.5	33

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37	Wavelength-Selective Light-Responsive DASA-Functionalized Polymersome Nanoreactors. <i>Journal of the American Chemical Society</i> , 2018, 140, 8027-8036.	6.6	137
38	Time programmable hydrogels: regulating the onset time of network dissociation by a reaction relay. <i>Chemical Communications</i> , 2018, 54, 5899-5902.	2.2	14
39	3D DNA Origami Nanoparticles: From Basic Design Principles to Emerging Applications in Soft Matter and (Bio-)Nanosciences. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10436-10448.	7.2	41
40	Pathway-controlled formation of mesostructured all-DNA colloids and superstructures. <i>Nature Nanotechnology</i> , 2018, 13, 730-738.	15.6	85
41	Reversible Social Self-Sorting of Colloidal Cell-Mimics with Blue Light Switchable Proteins. <i>ACS Synthetic Biology</i> , 2018, 7, 1817-1824.	1.9	18
42	Dissipative Self-Assembly of Photoluminescent Silicon Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14608-14612.	7.2	80
43	Dissipative Selbstassemblierung photolumineszierender Siliciumnanokristalle. <i>Angewandte Chemie</i> , 2018, 130, 14817-14822.	1.6	18
44	Temporally Programmed Disassembly and Reassembly of C3Ms. <i>Small</i> , 2018, 14, e1802089.	5.2	25
45	3D-DNA-Origami-Nanopartikel: von grundlegenden Designprinzipien hin zu neuartigen Anwendungen in der weichen Materie und den (Bio-)Nanowissenschaften. <i>Angewandte Chemie</i> , 2018, 130, 10594-10607.	1.6	7
46	Self-Assembly of Soft Nanoparticles. , 2019, , 217-254.		2
47	X-ray-Controlled Bilayer Permeability of Bionic Nanocapsules Stabilized by Nucleobase Pairing Interactions for Pulsatile Drug Delivery. <i>Advanced Materials</i> , 2019, 31, e1903443.	11.1	51
48	Programmable responsive hydrogels inspired by classical conditioning algorithm. <i>Nature Communications</i> , 2019, 10, 3267.	5.8	47
49	Light-responsive block copolymers with a spiropyran located at the block junction. <i>European Polymer Journal</i> , 2019, 119, 83-93.	2.6	4
50	ATP-Mediated Transient Behavior of Stomatocyte Nanosystems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13113-13118.	7.2	50
51	ATP-Mediated Transient Behavior of Stomatocyte Nanosystems. <i>Angewandte Chemie</i> , 2019, 131, 13247-13252.	1.6	23
52	Adaptive Polymeric Assemblies for Applications in Biomimicry and Nanomedicine. <i>Biomacromolecules</i> , 2019, 20, 4053-4064.	2.6	21
53	Chaotic Signatures Exhibited by Plasmonic Effects in Au Nanoparticles with Cells. <i>Sensors</i> , 2019, 19, 4728.	2.1	10
54	Designed Negative Feedback from Transiently Formed Catalytic Nanostructures. <i>Angewandte Chemie</i> , 2019, 131, 15930-15934.	1.6	15

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55	Designed Negative Feedback from Transiently Formed Catalytic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15783-15787.	7.2	53
56	A self-sustained soft actuator able to rock and roll. <i>Chemical Communications</i> , 2019, 55, 11029-11032.	2.2	28
57	Nonlinear Chemical Dynamics and Its Interdisciplinary Impact: Dedicated to Ken Showalter on the Occasion of his 70th Birthday. <i>Chaos</i> , 2019, 29, 080401.	1.0	1
58	Programmable dynamic steady states in ATP-driven nonequilibrium DNA systems. <i>Science Advances</i> , 2019, 5, eaaw0590.	4.7	134
59	Self-assembled micro-fibres by oxime connection of linear peptide amphiphiles. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1984-1991.	1.5	11
60	Stimuli-responsive self-assembly of nanoparticles. <i>Chemical Society Reviews</i> , 2019, 48, 1342-1361.	18.7	339
61	Fuel-Responsive Allosteric DNA-Based Aptamers for the Transient Release of ATP and Cocaine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5582-5586.	7.2	86
62	Photoresponsive Structural Color in Liquid Crystalline Materials. <i>Advanced Optical Materials</i> , 2019, 7, 1900429.	3.6	34
63	Self-organizing motors divide active liquid droplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11125-11130.	3.3	44
64	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9876-9880.	7.2	116
65	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie</i> , 2019, 131, 9981-9985.	1.6	37
66	Independent Blue and Red Light Triggered Narcissistic Self-Sorting Self-Assembly of Colloidal Particles. <i>Small</i> , 2019, 15, e1901801.	5.2	18
67	Dynamic Synthetic Cells Based on Liquid-Liquid Phase Separation. <i>ChemBioChem</i> , 2019, 20, 2553-2568.	1.3	99
68	Bio-inspired temporal regulation of ion-transport in nanochannels. <i>Nanoscale Advances</i> , 2019, 1, 1847-1852.	2.2	12
69	Dynamic Functional Molecular Systems: From Supramolecular Structures to Multi-Component Machinery and to Molecular Cybernetics. <i>Israel Journal of Chemistry</i> , 2019, 59, 197-208.	1.0	21
70	Chiral Metamolecules with Active Plasmonic Transition. <i>ACS Nano</i> , 2019, 13, 4826-4833.	7.3	51
71	Temperature-controlled repeatable scrambling and induced-sorting of building blocks between cubic assemblies. <i>Nature Communications</i> , 2019, 10, 1440.	5.8	11
72	Fuel-Responsive Allosteric DNA-Based Aptamers for the Transient Release of ATP and Cocaine. <i>Angewandte Chemie</i> , 2019, 131, 5638-5642.	1.6	31

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73	DNA-based long-lived reactionâ€“diffusion patterning in a host hydrogel. <i>Soft Matter</i> , 2019, 15, 9343-9351.	1.2	13
74	High-efficiency and integrable DNA arithmetic and logic system based on strand displacement synthesis. <i>Nature Communications</i> , 2019, 10, 5390.	5.8	64
75	Towards feedback-controlled nanomedicines for smart, adaptive delivery. <i>Experimental Biology and Medicine</i> , 2019, 244, 283-293.	1.1	10
76	Access to Metastable Gel States Using Seeded Selfâ€“Assembly of Lowâ€“Molecularâ€“Weight Gelators. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3800-3803.	7.2	47
77	Access to Metastable Gel States Using Seeded Selfâ€“Assembly of Lowâ€“Molecularâ€“Weight Gelators. <i>Angewandte Chemie</i> , 2019, 131, 3840-3843.	1.6	9
78	Allosteric DNAzyme-based DNA logic circuit: operations and dynamic analysis. <i>Nucleic Acids Research</i> , 2019, 47, 1097-1109.	6.5	42
79	Functional Macromolecular Systems: Kinetic Pathways to Obtain Tailored Structures. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800334.	1.1	29
80	Active structuring of colloids through field-driven self-assembly. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 25-41.	3.4	48
81	Tuning the life-time of supramolecular hydrogels using ROS-responsive telechelic peptide-polymer conjugates. <i>European Polymer Journal</i> , 2019, 110, 90-96.	2.6	20
82	Chemically Fueled Dissipative Selfâ€“Assembly that Exploits Cooperative Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 250-253.	1.6	45
83	Chemically Fueled Dissipative Selfâ€“Assembly that Exploits Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 244-247.	7.2	138
84	Thermodynamic costs of dynamic function in active soft matter. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 28-40.	5.6	13
85	Deconvolution of Transient Species in a Multivalent Fuelâ€“Driven Multistep Assembly under Dissipative Conditions. <i>ChemSystemsChem</i> , 2020, 2, e1900040.	1.1	10
86	Dynamic Vesicles Formed By Dissipative Selfâ€“Assembly. <i>ChemSystemsChem</i> , 2020, 2, e1900044.	1.1	53
87	Nonâ€“Equilibrium, Lightâ€“Adaptive, Steadyâ€“State Reconfiguration of Mechanical Patterns in Bioinspired Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1905309.	7.8	15
88	Evaluation of Chargeâ€“Regulated Supramolecular Copolymerization to Tune the Time Scale for Oxidative Disassembly of $\beta$ -Sheet Comonomers. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900476.	2.0	6
89	Viewpoint: Homeostasis as Inspirationâ€“Toward Interactive Materials. <i>Advanced Materials</i> , 2020, 32, e1905554.	11.1	35
90	Monodisperse Porous Microspheres with pH-Responsive Permeability and Reactivity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 932-938.	2.0	7

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91	ATP-fuelled self-assembly to regulate chemical reactivity in the time domain. <i>Chemical Science</i> , 2020, 11, 1518-1522.	3.7	36
92	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.	6.6	59
93	Designing logic gates based on 3-way DNAzyme complex. <i>Analytical Methods</i> , 2020, 12, 693-700.	1.3	3
94	Biocatalytic Feedback-Controlled Non-Newtonian Fluids. <i>Angewandte Chemie</i> , 2020, 132, 4344-4349.	1.6	8
95	Biocatalytic Feedback-Controlled Non-Newtonian Fluids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4314-4319.	7.2	17
96	Redox-Mediated Transient Reconfiguration of a Supramolecular Assembly. <i>ChemSystemsChem</i> , 2020, 2, e1900042.	1.1	20
97	Light and chemical oscillations: Review and perspectives. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2020, 43, 100321.	5.6	26
98	Recent advances in soft functional materials: preparation, functions and applications. <i>Nanoscale</i> , 2020, 12, 1281-1306.	2.8	56
99	The Design of Dissipative Molecular Assemblies Driven by Chemical Reaction Cycles. <i>CheM</i> , 2020, 6, 552-578.	5.8	157
100	From Molecular Machines to Stimuli-Responsive Materials. <i>Advanced Materials</i> , 2020, 32, e1906036.	11.1	155
101	Associative Learning by Classical Conditioning in Liquid Crystal Network Actuators. <i>Matter</i> , 2020, 2, 194-206.	5.0	51
102	Viewpoint: From Responsive to Adaptive and Interactive Materials and Materials Systems: A Roadmap. <i>Advanced Materials</i> , 2020, 32, e1905111.	11.1	177
103	Redox Chemical-Fueled Dissipative Self-Assembly of Active Materials. <i>ChemSystemsChem</i> , 2020, 2, e1900030.	1.1	45
104	The Importance of Cell-Cell Interaction Dynamics in Bottom-Up Tissue Engineering: Concepts of Colloidal Self-Assembly in the Fabrication of Multicellular Architectures. <i>Nano Letters</i> , 2020, 20, 2257-2263.	4.5	30
105	Transient supramolecular hydrogels formed by catalytic control over molecular self-assembly. <i>Soft Matter</i> , 2020, 16, 9406-9409.	1.2	8
106	Self-Assembled Bioinspired Nanocomposites. <i>Accounts of Chemical Research</i> , 2020, 53, 2622-2635.	7.6	41
107	ATP-powered molecular recognition to engineer transient multivalency and self-sorting 4D hierarchical systems. <i>Nature Communications</i> , 2020, 11, 3658.	5.8	47
108	Dynamic and Modular Formation of a Synergistic Transphosphorylation Catalyst. <i>ACS Catalysis</i> , 2020, 10, 8395-8401.	5.5	13

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109	Force generation by a propagating wave of supramolecular nanofibers. <i>Nature Communications</i> , 2020, 11, 3541.	5.8	24
110	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. <i>Chemical Reviews</i> , 2020, 120, 9420-9481.	23.0	313
111	Multiple Light Control Mechanisms in ATP-Fueled Non-Equilibrium DNA Systems. <i>Angewandte Chemie</i> , 2020, 132, 12182-12190.	1.6	15
112	Switchable supracolloidal 3D DNA origami nanotubes mediated through fuel/antifuel reactions. <i>Nanoscale</i> , 2020, 12, 16995-17004.	2.8	14
113	Disulfide-Linked Allosteric Modulators for Multi-Cycle Kinetic Control of DNA-Based Nanodevices. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21058-21063.	7.2	22
114	Disulfide-Linked Allosteric Modulators for Multi-Cycle Kinetic Control of DNA-Based Nanodevices. <i>Angewandte Chemie</i> , 2020, 132, 21244-21249.	1.6	9
115	Light-Driven Proton Transfer for Cyclic and Temporal Switching of Enzymatic Nanoreactors. <i>Small</i> , 2020, 16, e2002135.	5.2	34
116	Out-of-Equilibrium Colloidal Assembly Driven by Chemical Reaction Networks. <i>Langmuir</i> , 2020, 36, 10639-10656.	1.6	43
117	Regulating Chemically Fueled Peptide Assemblies by Molecular Design. <i>Journal of the American Chemical Society</i> , 2020, 142, 14142-14149.	6.6	50
118	ATP-Responsive and ATP-Fueled Self-Assembling Systems and Materials. <i>Advanced Materials</i> , 2020, 32, e2002629.	11.1	87
119	Scalable One-Pot-Liquid-Phase Oligonucleotide Synthesis for Model Network Hydrogels. <i>Journal of the American Chemical Society</i> , 2020, 142, 16610-16621.	6.6	22
120	Transient DNA-Based Nanostructures Controlled by Redox Inputs. <i>Angewandte Chemie</i> , 2020, 132, 13340-13347.	1.6	15
121	pH Tuning of Water-Soluble Arylazopyrazole Photoswitches. <i>Chemistry - A European Journal</i> , 2020, 26, 13203-13212.	1.7	27
122	Non-Equilibrium Polymerization of Cross-Linked Amyloid Peptides for Temporal Control of Electronic Properties. <i>Angewandte Chemie</i> , 2020, 132, 13608-13612.	1.6	8
123	Chemical-Fuel-Driven Assembly in Macromolecular Science: Recent Advances and Challenges. <i>ChemPlusChem</i> , 2020, 85, 1190-1199.	1.3	13
124	Driving Smart Molecular Systems by Artificial Molecular Machines. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900169.	3.3	17
125	Lasing Properties Activation by Constitutional Isomerism of an Electron-Accepting Group. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13845-13857.	1.5	0
126	Four-Dimensional Deoxyribonucleic Acid-Gold Nanoparticle Assemblies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17250-17255.	7.2	37

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127	Four-Dimensional Deoxyribonucleic Acid-Gold Nanoparticle Assemblies. <i>Angewandte Chemie</i> , 2020, 132, 17403-17408.	1.6	2
128	Towards Active Self-Assembly Through DNA Nanotechnology. <i>Topics in Current Chemistry</i> , 2020, 378, 33.	3.0	15
129	Dissipative Self-Assembly of Dynamic Multicompartmentalized Microsystems with Light-Responsive Behaviors. <i>CheM</i> , 2020, 6, 1160-1171.	5.8	37
130	Light-Driven Flipping of Azobenzene Assemblies-Sparse Crystal Structures and Responsive Behaviour to Polarised Light. <i>Chemistry - A European Journal</i> , 2020, 26, 10759-10768.	1.7	27
131	Nanoarchitectonics beyond Self-Assembly: Challenges to Create Bio-Like Hierarchic Organization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15424-15446.	7.2	176
132	Nanoarchitektonik als ein Ansatz zur Erzeugung bio-Ähnlicher hierarchischer Organise. <i>Angewandte Chemie</i> , 2020, 132, 15550-15574.	1.6	16
133	DNA-Templated Timer Probes for Multiplexed Sensing. <i>Nano Letters</i> , 2020, 20, 2688-2694.	4.5	13
134	Polymer Transformers: Interdigitating Reaction Networks of Fueled Monomer Species to Reconfigure Functional Polymer States. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18161-18165.	7.2	16
135	Polymer Transformers: Interdigitating Reaction Networks of Fueled Monomer Species to Reconfigure Functional Polymer States. <i>Angewandte Chemie</i> , 2020, 132, 18318-18322.	1.6	7
136	Efficiency range of the Belousov-Zhabotinsky reaction to induce the self-organization of transient bonds in metallo-supramolecular polymeric systems. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14965-14975.	1.3	11
137	Template-Dependent (Ir)reversibility of Noncovalent Synthesis Pathways. <i>ChemSystemsChem</i> , 2020, 2, e1900063.	1.1	2
138	Multiresponsive Microgels with Phase-Separated Nanodomains and Self-Regulating Properties via Incorporation of Anthraquinone Moieties. <i>Langmuir</i> , 2020, 36, 2427-2438.	1.6	4
139	The Power of Confocal Laser Scanning Microscopy in Supramolecular Chemistry: In situ Real-time Imaging of Stimuli-Responsive Multicomponent Supramolecular Hydrogels. <i>ChemistryOpen</i> , 2020, 9, 67-79.	0.9	39
140	Vision Statement: Interactive Materials-Drivers of Future Robotic Systems. <i>Advanced Materials</i> , 2020, 32, e1905953.	11.1	10
141	An Autonomous Soft Actuator with Light-Driven Self-Sustained Wavelike Oscillation for Phototactic Self-Locomotion and Power Generation. <i>Advanced Functional Materials</i> , 2020, 30, 1908842.	7.8	100
142	Non-Equilibrium Polymerization of Cross-Linked Amyloid Peptides for Temporal Control of Electronic Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13506-13510.	7.2	38
143	Multiple Light Control Mechanisms in ATP-Fueled Non-equilibrium DNA Systems. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12084-12092.	7.2	62
144	Transient DNA-Based Nanostructures Controlled by Redox Inputs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13238-13245.	7.2	60

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145	Capillarity-Induced Propagation Reversal of Chemical Waves in a Self-oscillating Gel. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3530-3534.	1.1	3
146	ATP-Driven Synthetic Supramolecular Assemblies: From ATP as a Template to Fuel. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2740-2756.	7.2	84
147	ATP-Driven Synthetic Supramolecular Assemblies: From ATP as a Template to Fuel. <i>Angewandte Chemie</i> , 2021, 133, 2772-2788.	1.6	25
148	Active Bicomponent Nanoparticle Assembly with Temporal, Microstructural, and Functional Control. <i>Chemistry - A European Journal</i> , 2021, 27, 705-711.	1.7	7
149	Towards synergistic oscillations in enzymatically active hydrogel spheres. <i>Soft Matter</i> , 2021, 17, 592-599.	1.2	8
150	The Transient Covalent Bond in Abiotic Nonequilibrium Systems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12648-12658.	7.2	52
151	The Transient Covalent Bond in Abiotic Nonequilibrium Systems. <i>Angewandte Chemie</i> , 2021, 133, 12756-12766.	1.6	13
152	Chemically Fueled Volume Phase Transition of Polyacid Microgels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7117-7125.	7.2	47
153	Self-Oscillating Membranes with Polymer Interface Synchronized with Chemical Oscillator to Reproduce Lifelike Pulsatile Flow. <i>Chemistry of Materials</i> , 2021, 33, 998-1005.	3.2	4
154	The Dynamics of an Oscillating Enzymatic Reaction Network is Crucially Determined by Side Reactions. <i>ChemSystemsChem</i> , 2021, 3, e2000033.	1.1	9
155	Autonomous Transient pH Flips Shaped by Layered Compartmentalization of Antagonistic Enzymatic Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3619-3624.	7.2	37
156	A Journey of Nanomotors for Targeted Cancer Therapy: Principles, Challenges, and a Critical Review of the State-of-the-Art. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001236.	3.9	45
157	Autonomous Transient pH Flips Shaped by Layered Compartmentalization of Antagonistic Enzymatic Reactions. <i>Angewandte Chemie</i> , 2021, 133, 3663-3668.	1.6	17
158	Temporal Changes in Interparticle Interactions Drive the Formation of Transiently Stable Nanoparticle Precipitates. <i>Langmuir</i> , 2021, 37, 1843-1849.	1.6	16
159	Developing three-input cascade DNA logic gate based on biological characteristics of metal ion-GO combined with the analysis and verification. <i>Analytical Methods</i> , 2021, 13, 4955-4963.	1.3	2
160	Spinodal decomposition of chemically fueled polymer solutions. <i>Soft Matter</i> , 2021, 17, 5401-5409.	1.2	17
161	Dissipative operation of pH-responsive DNA-based nanodevices. <i>Chemical Science</i> , 2021, 12, 11735-11739.	3.7	33
162	Time-programmable pH: decarboxylation of nitroacetic acid allows the time-controlled rising of pH to a definite value. <i>Chemical Science</i> , 2021, 12, 7460-7466.	3.7	20

#	ARTICLE	IF	CITATIONS
163	Chemically fueled materials with a self-immolative mechanism: transient materials with a fast on/off response. <i>Chemical Science</i> , 2021, 12, 9969-9976.	3.7	13
164	Parasitic behavior in competing chemically fueled reaction cycles. <i>Chemical Science</i> , 2021, 12, 7554-7560.	3.7	17
165	Evolution of catalytic machinery: three-component nanorotor catalyzes formation of four-component catalytic machinery. <i>Chemical Communications</i> , 2021, 57, 7180-7183.	2.2	2
166	Chemically Fueled Volume Phase Transition of Polyacid Microgels. <i>Angewandte Chemie</i> , 2021, 133, 7193-7201.	1.6	11
167	Fast and Ample Light Controlled Actuation of Monodisperse All- $\alpha$ -DNA Microgels. <i>Advanced Functional Materials</i> , 2021, 31, 2010396.	7.8	11
168	Synthetic Biology: Emerging Concepts to Design and Advance Adeno-associated Viral Vectors for Gene Therapy. <i>Advanced Science</i> , 2021, 8, 2004018.	5.6	27
169	Coupled liquid crystalline oscillators in Huygens's synchrony. <i>Nature Materials</i> , 2021, 20, 1702-1706.	13.3	44
170	Simultaneous Nanolocal Polymer and <i>In Situ</i> Readout Unit Placement in Mesoporous Separation Layers. <i>Analytical Chemistry</i> , 2021, 93, 5394-5402.	3.2	4
172	Chemically Fueled Self-Assembly in Biology and Chemistry. <i>Angewandte Chemie</i> , 2021, 133, 20280-20303.	1.6	24
175	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11398-11405.	7.2	42
176	Chemically Fueled Block Copolymer Self-Assembly into Transient Nanoreactors**. <i>ChemSystemsChem</i> , 2021, 3, e2100015.	1.1	40
177	Interconnectivity between Surface Reactivity and Self-Assembly of Kemp Elimination Catalyzing Nanorods. <i>Chemistry - A European Journal</i> , 2021, 27, 7831-7836.	1.7	8
178	On-board Mechanical Control Systems for Untethered Microrobots. <i>Advanced Intelligent Systems</i> , 0, , 2000233.	3.3	10
179	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie</i> , 2021, 133, 11499-11506.	1.6	11
183	Chemically Fueled Self-Assembly in Biology and Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20120-20143.	7.2	160
184	Phototunable self-oscillating system driven by a self-winding fiber actuator. <i>Nature Communications</i> , 2021, 12, 3211.	5.8	85
185	Autocatalytic and oscillatory reaction networks that form guanidines and products of their cyclization. <i>Nature Communications</i> , 2021, 12, 2994.	5.8	13
186	One-Component DNA Mechanoprobes for Facile Mechanosensing in Photopolymerized Hydrogels and Elastomers. <i>ACS Macro Letters</i> , 2021, 10, 671-678.	2.3	15

#	ARTICLE	IF	CITATIONS
187	Direct Evidence of Heteroleptic Complexation in the Macroscopic Dynamics of Metallo-supramolecular Polymer Networks. <i>Macromolecules</i> , 2021, 54, 7113-7124.	2.2	21
188	Urea-Urease Reaction in Controlling Properties of Supramolecular Hydrogels: Pros and Cons. <i>Chemistry - A European Journal</i> , 2021, 27, 8928-8939.	1.7	24
189	Dictating Catalytic Preference and Activity of a Nanoparticle by Modulating Its Multivalent Engagement. <i>ACS Catalysis</i> , 2021, 11, 8504-8509.	5.5	13
190	The rise of intelligent matter. <i>Nature</i> , 2021, 594, 345-355.	13.7	228
191	Dynamics of Meso-Chiral Interconversion in a Butterfly-Shape Overcrowded Alkene Rotor Tunable by Solvent Properties. <i>Angewandte Chemie</i> , 2021, 133, 16602-16607.	1.6	2
192	Dynamics of Meso-Chiral Interconversion in a Butterfly-Shape Overcrowded Alkene Rotor Tunable by Solvent Properties. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16466-16471.	7.2	10
193	Self-Sustained Marangoni Flows Driven by Chemical Reactions**. <i>ChemSystemsChem</i> , 2021, 3, .	1.1	4
194	Understanding the Molecular Origin of the Collective Movement in a Diarylethene-based Photo-Responsive Actuator. <i>ChemPhysChem</i> , 2021, 22, 1658-1661.	1.0	1
195	How Was Nature Able to Discover Its Own Laws Twice?. <i>Life</i> , 2021, 11, 679.	1.1	3
196	Out of equilibrium coil-helix transition driven by chemical fuels. <i>Giant</i> , 2021, 7, 100067.	2.5	6
197	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. <i>Angewandte Chemie</i> , 2021, 133, 20674-20680.	1.6	3
198	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.	7.2	34
199	Autonomous DNA nanostructures instructed by hierarchically concatenated chemical reaction networks. <i>Nature Communications</i> , 2021, 12, 5132.	5.8	40
200	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20511-20517.	7.2	82
201	A dissipative pathway for the structural evolution of DNA fibres. <i>Nature Chemistry</i> , 2021, 13, 843-849.	6.6	60
202	Chemoadaptive Polymeric Assemblies by Integrated Chemical Feedback in Self-Assembled Synthetic Protocells. <i>ACS Central Science</i> , 2021, 7, 1543-1550.	5.3	15
203	Feedback and Communication in Active Hydrogel Spheres with pH Fronts: Facile Approaches to Grow Soft Hydrogel Structures. <i>Angewandte Chemie</i> , 2021, 133, 22711-22720.	1.6	5
204	Out-of-equilibrium supramolecular self-assembling systems driven by chemical fuel. <i>Aggregate</i> , 2021, 2, e110.	5.2	31

#	ARTICLE	IF	CITATIONS
205	Architecturing materials at mesoscale: some current trends. <i>Materials Research Letters</i> , 2021, 9, 399-421.	4.1	51
206	Bridging Rigidity and Flexibility: Modulation of Supramolecular Hydrogels by Metal Complexation. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100473.	2.0	2
207	Unveiling electron transfer in a supramolecular aggregate for adaptive and autonomous photochromic response. <i>IScience</i> , 2021, 24, 102956.	1.9	5
208	Fe <sub>3</sub> O <sub>4</sub> Nanoparticle-Decorated Graphene Oxide Nanosheets for Magnetic Assembly of Artificial Nacre. <i>ACS Applied Nano Materials</i> , 2021, 4, 9689-9696.	2.4	6
209	Chemical micro-oscillators based on the Belousov-Zhabotinsky reaction. <i>Russian Chemical Reviews</i> , 2021, 90, 1263-1286.	2.5	11
210	Dissipative Self-Assembly: Fueling with Chemicals versus Light. <i>CheM</i> , 2021, 7, 23-37.	5.8	112
211	Viewpoint: Pavlovian Materials—Functional Biomimetics Inspired by Classical Conditioning. <i>Advanced Materials</i> , 2020, 32, e1906619.	11.1	21
212	Transient Supramolecular Hydrogels Formed by Aging-Induced Seeded Self-Assembly of Molecular Hydrogelators. <i>Advanced Science</i> , 2020, 7, 1902487.	5.6	30
213	Self-regulating photochemical Rayleigh-Bénard convection using a highly-absorbing organic photoswitch. <i>Nature Communications</i> , 2020, 11, 2599.	5.8	26
214	Artificial Oscillating Membrane Systems. <i>RSC Smart Materials</i> , 2019, , 329-361.	0.1	1
215	Seeking to uncover biology's chemical roots. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 435-443.	1.1	10
216	Self-Sustained Marangoni Flows Driven by Chemical Reactions. <i>ChemSystemsChem</i> , 0, , .	1.1	1
217	Chemical engines: driving systems away from equilibrium through catalyst reaction cycles. <i>Nature Nanotechnology</i> , 2021, 16, 1057-1067.	15.6	70
218	Crown Ether-Functionalized Complex Emulsions as an Artificial Adaptive Material Platform. <i>Advanced Functional Materials</i> , 2022, 32, 2107688.	7.8	11
220	Über den Trend vom Molekül zum System. <i>Nachrichten Aus Der Chemie</i> , 2019, 67, 62-65.	0.0	0
222	Self-Propulsion of Droplets via Light-Stimuli Rapid Control of Their Surface Tension. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100751.	1.9	13
223	Substrate induced generation of transient self-assembled catalytic systems. <i>Chemical Science</i> , 2021, 12, 14674-14685.	3.7	16
224	Dissecting Biological and Synthetic Soft-Hard Interfaces for Tissue-Like Systems. <i>Chemical Reviews</i> , 2022, 122, 5233-5276.	23.0	32

#	ARTICLE	IF	CITATIONS
225	Dissipative control of the fluorescence of a 1,3-dipyrenyl calix[4]arene in the cone conformation. <i>Organic and Biomolecular Chemistry</i> , 2021, 20, 132-138.	1.5	15
226	Morphological transitions in chemically fueled self-assembly. <i>Nanoscale</i> , 2021, 13, 19864-19869.	2.8	4
227	Self-evolving materials based on metastable-to-stable crystal transition of a polymorphic polyolefin. <i>Materials Horizons</i> , 2022, 9, 756-763.	6.4	6
228	Spontaneous Reorganization of DNA-Based Polymers in Higher Ordered Structures Fueled by RNA. <i>Journal of the American Chemical Society</i> , 2021, 143, 20296-20301.	6.6	21
229	Molecular communication relays for dynamic cross-regulation of self-sorting fibrillar self-assemblies. <i>Science Advances</i> , 2021, 7, eabj5827.	4.7	11
230	Droplet Formation by Chemically Fueled Self-Assembly: The Role of Precursor Hydrophobicity. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13542-13551.	1.2	4
231	Concurrent base and silver (<sc>i</sc>) catalysis pulsed by fuel acid. <i>Chemical Communications</i> , 2022, 58, 1728-1731.	2.2	9
232	Carbodiimide-fueled catalytic reaction cycles to regulate supramolecular processes. <i>Chemical Communications</i> , 2022, 58, 1284-1297.	2.2	25
233	Spatiotemporal Regulation of Hydrogel Actuators by Autocatalytic Reaction Networks. <i>Advanced Materials</i> , 2022, 34, e2106816.	11.1	22
234	Roadmap on soft robotics: multifunctionality, adaptability and growth without borders. <i>Multifunctional Materials</i> , 2022, 5, 032001.	2.4	37
235	Nonequilibrium Catalytic Supramolecular Assemblies of Melamine- and Imidazole-Based Dynamic Building Blocks. <i>Journal of the American Chemical Society</i> , 2022, 144, 673-678.	6.6	14
236	Chemical Fuel Mediated Self-Regulatory Polymer Brushes for Autonomous Fluorescence Modulator and Wettability Switcher. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100878.	2.0	4
237	Dynamic and reconfigurable materials from reversible network interactions. <i>Nature Reviews Materials</i> , 2022, 7, 541-556.	23.3	105
238	Predicting the Supramolecular Assembly of Amphiphilic Peptides from Comprehensive Coarse-Grained Simulations. <i>ACS Applied Polymer Materials</i> , 2022, 4, 822-831.	2.0	3
239	Electro-assembly of a dynamically adaptive molten fibril state for collagen. <i>Science Advances</i> , 2022, 8, eabl7506.	4.7	15
240	Soft Actuators Based On Carbon Nanomaterials. <i>ChemPlusChem</i> , 2022, 87, e202100437.	1.3	13
241	Recent Advances in Stimuli-Responsive DNA-Based Hydrogels. <i>ACS Applied Bio Materials</i> , 2022, 5, 1934-1953.	2.3	20
242	Coordination Geometry in Metallo-Supramolecular Polymer Networks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1

#	ARTICLE	IF	CITATIONS
243	pH Oscillator-Driven Jellyfish-like Hydrogel Actuator with Dissipative Synergy between Deformation and Fluorescence Color Change. <i>ACS Macro Letters</i> , 2022, 11, 347-353.	2.3	25
244	All- $\pi$ -Flexible Artificial Reflex Arc Based on Threshold-Switching Memristor. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
245	Self-Regulating Colloidal Co-Assemblies That Accelerate Their Own Destruction via Chemo-Structural Feedback. <i>Angewandte Chemie</i> , 0, , .	1.6	0
246	Who's gonna use this? Acceptance prediction of emerging technologies with Cognitive-Affective Mapping and transdisciplinary considerations in the Anthropocene. <i>Infrastructure Asset Management</i> , 0, , 205301962210789.	1.2	1
247	History Dependence in a Chemical Reaction Network Enables Dynamic Switching. <i>Small</i> , 2022, 18, e2107523.	5.2	1
249	Self-Regulating Colloidal Co-Assemblies That Accelerate Their Own Destruction via Chemo-Structural Feedback. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
250	Liquid Crystals: Versatile Self-Organized Smart Soft Materials. <i>Chemical Reviews</i> , 2022, 122, 4887-4926.	23.0	288
251	An Approach to the De Novo Synthesis of Life. <i>Accounts of Chemical Research</i> , 2022, 55, 145-155.	7.6	29
252	Magnetic Micro- and Nanoagents for Monitoring Enzymatic Activity In Vivo. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 311-333.	7.5	2
253	Programming Hydrogels with Complex Transient Behaviors via Autocatalytic Cascade Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20073-20082.	4.0	5
254	Molecular communications in complex systems of dynamic supramolecular polymers. <i>Nature Communications</i> , 2022, 13, 2162.	5.8	14
255	Biomacromolecule-Fueled Transient Volume Phase Transition of a Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
256	Biomacromolecule-Fueled Transient Volume Phase Transition of a Hydrogel. <i>Angewandte Chemie</i> , 0, , .	1.6	1
257	1D Colloidal chains: recent progress from formation to emergent properties and applications. <i>Chemical Society Reviews</i> , 2022, 51, 4023-4074.	18.7	15
258	Feedback-controlled topological reconfiguration of molecular assemblies for programming supramolecular structures. <i>Soft Matter</i> , 2022, 18, 3856-3866.	1.2	4
259	DNA-Based Dissipative Assembly toward Nanoarchitectonics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	26
260	Photochemically Sequestered Off-Pathway Dormant States of Peptide Amphiphiles for Predictive On-Demand Piezoresponsive Nanostructures. <i>Chemistry of Materials</i> , 2022, 34, 4456-4470.	3.2	17
261	Dissipative biocatalytic cascades and gated transient biocatalytic cascades driven by nucleic acid networks. <i>Science Advances</i> , 2022, 8, eabn3534.	4.7	23

#	ARTICLE	IF	CITATIONS
262	Out-of-equilibrium chemical logic systems: Light- and sound-controlled programmable spatiotemporal patterns and mechanical functions. <i>CheM</i> , 2022, 8, 2192-2203.	5.8	5
263	Nonequilibrium regulation of interfacial chemistry for transient macroscopic supramolecular assembly. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 674-684.	5.0	13
265	Backbone Polarity Tunes Sticker Clustering in Hydrogen-Bonded Supramolecular Polymer Networks. <i>Macromolecules</i> , 2022, 55, 5514-5526.	2.2	15
266	Dissipative Formation of Covalent Basket Cages. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
267	Dissipative Formation of Covalent Basket Cages. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	19
268	Light-fueled dissipative self-assembly at molecular and macro-scale enabled by a visible-light-responsive transient hetero-complementary quadruple hydrogen bond. <i>Chinese Chemical Letters</i> , 2023, 34, 107639.	4.8	6
269	Kinetic and energetic insights into the dissipative non-equilibrium operation of an autonomous light-powered supramolecular pump. <i>Nature Nanotechnology</i> , 2022, 17, 746-751.	15.6	40
270	Chemical fuels for molecular machinery. <i>Nature Chemistry</i> , 2022, 14, 728-738.	6.6	53
271	Light-Activated Membrane Transport in Polymeric Cell-Mimics. <i>Angewandte Chemie</i> , 0, , .	1.6	1
272	Dilution-induced gel-sol-gel-sol transitions by competitive supramolecular pathways in water. <i>Science</i> , 2022, 377, 213-218.	6.0	47
273	In situ Synthesis of Supramolecular Polymers: Finding the Right Conditions when Combining Covalent and Non-Covalent Synthesis. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
274	Multicomponent Pseudorotaxane Quadrilateral as Dual-Way Logic AND Gate with Two Catalytic Outputs. <i>Journal of the American Chemical Society</i> , 2022, 144, 13039-13043.	6.6	9
275	Regulating Spatial Localization and Reactivity Biasness of DNAzymes by Metal Ions and Oligonucleotides. <i>ChemBioChem</i> , 2022, 23, .	1.3	2
276	Light-Activated Membrane Transport in Polymeric Cell-Mimics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
277	In situ Synthesis of Supramolecular Polymers: Finding the Right Conditions when Combining Covalent and Non-Covalent Synthesis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
278	Ultra-specific fluorescence detection of DNA modifying enzymes by dissipation system. <i>Biosensors and Bioelectronics</i> , 2022, 215, 114561.	5.3	7
279	Perovskite Plasticity: Exploiting Instability for Self-Optimized Performance. <i>Advanced Functional Materials</i> , 0, , 2203771.	7.8	1
280	Application of Super Photoacids in Controlling Dynamic Processes: Light-Triggering the Self-Propulsion of Oil Droplets. <i>Journal of Physical Chemistry B</i> , 2022, 126, 6331-6337.	1.2	1

#	ARTICLE	IF	CITATIONS
281	Reversed spin of a ratchet motor on a vibrating water bed. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
282	Coordination geometry in metallo-supramolecular polymer networks. <i>Coordination Chemistry Reviews</i> , 2022, 471, 214733.	9.5	19
283	A chemically fueled supramolecular glue for self-healing gels. <i>Chemical Science</i> , 2022, 13, 11411-11421.	3.7	13
284	Spatial programming of self-organizing chemical systems using sustained physicochemical gradients from reaction, diffusion and hydrodynamics. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 23980-24001.	1.3	11
285	Dynamic Timing Control of Molecular Photoluminescent Systems. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
286	Chemical Cascading Between Polymersomal Nanoreactor Populations. <i>Macromolecular Chemistry and Physics</i> , 2023, 224, .	1.1	3
287	Amyloid-Inspired Peptide Self-Assembly/Disassembly as Intervened by Gold Nanoparticles and Polydopamine Coating to Dictate Spatiotemporal Organization. <i>ChemNanoMat</i> , 2022, 8, .	1.5	7
288	Tuning the Kinetic Trapping in Chemically Fueled Self-Assembly**. <i>ChemSystemsChem</i> , 2023, 5, .	1.1	7
289	Trade-off between carbohydrates and metal ions regulates the chemotactic directionality of alkaline phosphatase. <i>Chemical Communications</i> , 2022, 58, 12851-12854.	2.2	4
290	Engineering strategies for sustainable synthetic cells. <i>Trends in Chemistry</i> , 2022, 4, 1106-1120.	4.4	7
291	Nonequilibrium Amyloid Polymers Exploit Dynamic Covalent Linkage to Temporally Control Charge-Selective Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 19248-19252.	6.6	8
292	Orthogonal Enzyme-Driven Timers for DNA Strand Displacement Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 19791-19798.	6.6	20
293	Construction of Transient Supramolecular Polymers Controlled by Mass Transfer in Biphasic System. <i>Chemical Science</i> , 0, , .	3.7	0
294	Photoswitchable gating of non-equilibrium enzymatic feedback in chemically communicating polymersome nanoreactors. <i>Nature Chemistry</i> , 2023, 15, 110-118.	6.6	26
295	Exploring the theoretical foundation of molecular assembly: current status and opportunities. <i>Scientia Sinica Chimica</i> , 2023, 53, 145-173.	0.2	2
296	Self-healing cyclic peptide hydrogels. <i>Journal of Materials Chemistry B</i> , 2023, 11, 606-617.	2.9	2
297	Responses to single and multiple temperature-, medium-, and pH-stimuli triggering reversible shape shifts in hydrogel actuators. <i>Materials and Design</i> , 2023, 225, 111511.	3.3	6
298	Light-driven autonomous swing of multi-layered hydrogel. <i>RSC Advances</i> , 2022, 12, 33612-33616.	1.7	0

#	ARTICLE	IF	CITATIONS
299	Autonomous Soft Robots Empowered by Chemical Reaction Networks. <i>Advanced Materials</i> , 2023, 35, .	11.1	25
300	Persistent ATP- Concentration Gradients in a Hydrogel Sustained by Chemical Fuel Consumption. <i>Angewandte Chemie</i> , 0, , .	1.6	1
301	Persistent ATP- Concentration Gradients in a Hydrogel Sustained by Chemical Fuel Consumption. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	3
302	On the Chemical Origin of Biological Cognition. <i>Life</i> , 2022, 12, 2016.	1.1	6
303	Functional Rhythmic Chemical Systems Governed by pH-Driven Kinetic Feedback. <i>ChemSystemsChem</i> , 2023, 5, .	1.1	4
304	Chemically Driven Multimodal Locomotion of Active, Flexible Sheets. <i>Langmuir</i> , 2023, 39, 780-789.	1.6	5
305	pH-feedback systems to program autonomous self-assembly and material lifecycles. <i>Chemical Communications</i> , 2023, 59, 1125-1144.	2.2	14
306	Formation of Catalytic Hotspots in ATP-Templated Assemblies. <i>Journal of the American Chemical Society</i> , 2023, 145, 898-904.	6.6	10
307	Autonomic self-regulating systems based on polyelectrolyte microcapsules and microgel particles. <i>Journal of Colloid and Interface Science</i> , 2023, 638, 403-411.	5.0	1
308	Adaptive 2D and Pseudo-2D Systems: Molecular, Polymeric, and Colloidal Building Blocks for Tailored Complexity. <i>Nanomaterials</i> , 2023, 13, 855.	1.9	5
309	A Dissipative Reaction Network Drives Transient Solid-Liquid and Liquid-Liquid Phase Cycling of Nanoparticles. <i>Angewandte Chemie</i> , 0, , .	1.6	2
310	Transient Biomacromolecular Nanoparticles for Labels with Self-Erasable and Rewritable Ability. <i>ChemSystemsChem</i> , 2023, 5, .	1.1	3
311	Waste-Free Fully Electrically Fueled Dissipative Self-Assembly System. <i>Journal of the American Chemical Society</i> , 2023, 145, 3727-3735.	6.6	8
312	A Hydrolyzable Supra-Amphiphile as a Marangoni Self-Propulsion Fuel for Efficient Macroscopic Supramolecular Self-Assembly. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
313	A Hydrolyzable Supra-Amphiphile as a Marangoni Self-Propulsion Fuel for Efficient Macroscopic Supramolecular Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	5
314	Orbiting Self-Organization of Filament-Tethered Surface-Active Droplets. <i>Small</i> , 2023, 19, .	5.2	2
315	A subwoofer separates chiral fibers. <i>CheM</i> , 2023, 9, 551-554.	5.8	0
316	Light-Fueled Nonequilibrium and Adaptable Hydrogels for Highly Tunable Autonomous Self-Oscillating Functions. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	11

#	ARTICLE	IF	CITATIONS
317	Darwinian evolution as a dynamical principle. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	6
318	Temporally programmed switching of functional states in polyaniline film. APL Materials, 2023, 11, .	2.2	1
319	A Dissipative Reaction Network Drives Transient Solidâ€“Liquid and Liquidâ€“Liquid Phase Cycling of Nanoparticles. Angewandte Chemie - International Edition, 0, , .	7.2	1
320	Chemically Fueled Supramolecular Materials. Accounts of Materials Research, 2023, 4, 416-426.	5.9	12
321	Dynamical Behaviors of Oscillating Metallosurfactant Coacervate Microdroplets under Redox Stress. Advanced Materials, 2023, 35, .	11.1	3
322	Multimodal Selfâ€“sustainable Autonomous Locomotions of Lightâ€“driven Seifert Ribbon Actuators based on Liquid Crystal Elastomers. Angewandte Chemie, 0, , .	1.6	0
324	Multimodal Selfâ€“sustainable Autonomous Locomotions of Lightâ€“driven Seifert Ribbon Actuators based on Liquid Crystal Elastomers. Angewandte Chemie - International Edition, 2023, 62, .	7.2	11
340	Engineering metabolic cycle-inspired hydrogels with enzyme-fueled programmable transient volume changes. Journal of Materials Chemistry B, 2023, 11, 8136-8141.	2.9	0
343	From autocatalysis to survival of the fittest in self-reproducing lipid systems. Nature Reviews Chemistry, 2023, 7, 673-691.	13.8	4
345	The entropy-controlled strategy in self-assembling systems. Chemical Society Reviews, 2023, 52, 6806-6837.	18.7	9
359	Dynamic monitoring of an enzymatically driven dissipative toehold-mediated strand displacement reaction. Chemical Communications, 0, , .	2.2	0