

The nanotechnology of life-inspired systems

Nature Nanotechnology

11, 585-592

DOI: [10.1038/nnano.2016.116](https://doi.org/10.1038/nnano.2016.116)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Emergence of hierarchical structural complexities in nanoparticles and their assembly. <i>Science</i> , 2016, 354, 1580-1584.	6.0	490
2	Nonlinear Kinetic Behavior in Constitutional Dynamic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2016, 138, 16809-16814.	6.6	17
3	Learning to 'think systems'. <i>Nature Nanotechnology</i> , 2016, 11, 824-824.	15.6	2
4	Mimicking Primitive Photobacteria: Sustainable Hydrogen Evolution Based on Peptide-Porphyrin Co-Assemblies with a Self-Mineralized Reaction Center. <i>Angewandte Chemie</i> , 2016, 128, 12691-12695.	1.6	23
5	Mimicking Primitive Photobacteria: Sustainable Hydrogen Evolution Based on Peptide-Porphyrin Co-Assemblies with a Self-Mineralized Reaction Center. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12503-12507.	7.2	145
6	Leaving the Scientific Comfort Zone to Address Complex Challenges. <i>CheM</i> , 2016, 1, 181-183.	5.8	1
7	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1794-1798.	7.2	54
8	Programmed communication. <i>Nature Nanotechnology</i> , 2017, 12, 291-292.	15.6	0
9	Transient self-assembly of molecular nanostructures driven by chemical fuels. <i>Current Opinion in Biotechnology</i> , 2017, 46, 27-33.	3.3	94
10	Self-Organization Induced by Self-Assembly in Microheterogeneous Reaction-Diffusion System. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2127-2131.	1.2	6
11	A nanobiosensor composed of Exfoliated Graphene Oxide and Gold Nano-Urchins, for detection of GMO products. <i>Biosensors and Bioelectronics</i> , 2017, 95, 72-80.	5.3	43
12	Synthesis and Characterization of Cefotaxime Conjugated Gold Nanoparticles and Their Use to Target Drug-Resistant CTX-M-Producing Bacterial Pathogens. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2802-2808.	1.2	45
13	Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. <i>Angewandte Chemie</i> , 2017, 129, 1820-1824.	1.6	13
14	Cell Guidance on Nanostructured Metal Based Surfaces. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600914.	3.9	22
15	Cross-Regulation of an Artificial Metalloenzyme. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10156-10160.	7.2	23
16	Biocatalytic Self-Assembly Cascades. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6828-6832.	7.2	65
17	Cross-Regulation of an Artificial Metalloenzyme. <i>Angewandte Chemie</i> , 2017, 129, 10290-10294.	1.6	3
18	Non-equilibrium steady states in supramolecular polymerization. <i>Nature Communications</i> , 2017, 8, 15899.	5.8	228

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19	Temporal Control over Transient Chemical Systems using Structurally Diverse Chemical Fuels. Chemistry - A European Journal, 2017, 23, 11549-11559.	1.7	33
20	The interfacial structure of water droplets in a hydrophobic liquid. Nature Communications, 2017, 8, 15548.	5.8	56
21	Dynamic and programmable self-assembly of micro-rafts at the air-water interface. Science Advances, 2017, 3, e1602522.	4.7	87
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25	Dual-light control of nanomachines that integrate motor and modulator subunits. Nature Nanotechnology, 2017, 12, 540-545.	15.6	190
26	Transient Helicity: Fuel-Driven Temporal Control over Conformational Switching in a Supramolecular Polymer. Angewandte Chemie - International Edition, 2017, 56, 1329-1333.	7.2	132
27	Transient Helicity: Fuel-Driven Temporal Control over Conformational Switching in a Supramolecular Polymer. Angewandte Chemie, 2017, 129, 1349-1353.	1.6	69
28	Programmierbare transiente Thermogele vermittelt durch eine pH- und Redox-regulierte supramolekulare Polymerisation. Angewandte Chemie, 2017, 129, 15664-15669.	1.6	30
29	In Situ Characterization of Interfaces Relevant for Efficient Photoinduced Reactions. Advanced Materials Interfaces, 2017, 4, 1601118.	1.9	21
30	Tuneable Transient Thermogels Mediated by a pH- and Redox-Regulated Supramolecular Polymerization. Angewandte Chemie - International Edition, 2017, 56, 15461-15465.	7.2	101
31	Photochemical Control over Oscillations in Chemical Reaction Networks. Journal of the American Chemical Society, 2017, 139, 15296-15299.	6.6	35
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33	Autocatalytic Time-Dependent Evolution of Metastable Two-Component Supramolecular Assemblies to Self-Sorted or Coassembled State. Scientific Reports, 2017, 7, 2425.	1.6	27
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38	Heterogeneous Catalysis "On Demand": Mechanically Controlled Catalytic Activity of a Metal Surface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44264-44269.	4.0	4
39	Hierarchical Self-Assembly of a Copolymer-Stabilized Coacervate Protocell. <i>Journal of the American Chemical Society</i> , 2017, 139, 17309-17312.	6.6	175
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41	Biocatalytic Self-Assembly Cascades. <i>Angewandte Chemie</i> , 2017, 129, 6932-6936.	1.6	26
42	Hybrid membranes for pervaporation separations. <i>Journal of Membrane Science</i> , 2017, 541, 329-346.	4.1	174
43	From dynamic self-assembly to networked chemical systems. <i>Chemical Society Reviews</i> , 2017, 46, 5647-5678.	18.7	241
44	Light-Induced Proton Pumping with a Semiconductor: Vision for Photoproton Lateral Separation and Robust Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24282-24289.	4.0	22
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54	Temporally Controlled Supramolecular Polymerization. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 687-699.	2.0	106
55	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. <i>Chemistry - A European Journal</i> , 2018, 24, 9703-9713.	1.7	80

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58	Artificial Cell Fermentation as a Platform for Highly Efficient Cascade Conversion. <i>ACS Synthetic Biology</i> , 2018, 7, 363-370.	1.9	22
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64	Biomimetic artificial organelles with in vitro and in vivo activity triggered by reduction in microenvironment. <i>Nature Communications</i> , 2018, 9, 1127.	5.8	118
65	Nanotechnology based electrical control and navigation system for worm guidance using electric field gradient. <i>Microsystem Technologies</i> , 2018, 24, 989-993.	1.2	11
66	Synthesis of vertically aligned carbon nanofibers using inductively coupled plasma-enhanced chemical vapor deposition. <i>Electrical Engineering</i> , 2018, 100, 997-1002.	1.2	22
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71	Substrate-Induced Self-Assembly of Cooperative Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16469-16474.	7.2	76
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75	Substrate-Induced Self-Assembly of Cooperative Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 16707-16712.	1.6	33
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79	Bottom-Up Construction of an Adaptive Enzymatic Reaction Network. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14065-14069.	7.2	36
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85	Cobalt oxide nanoparticles mediate tau denaturation and cytotoxicity against PC-12 cell line. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1763-1772.	3.6	12
86	Discovery and Enumeration of Organic-Chemical and Biomimetic Reaction Cycles within the Network of Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 2391-2395.	1.6	3
87	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. <i>Advanced Materials</i> , 2018, 30, e1707073.	11.1	73
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103	Designed Negative Feedback from Transiently Formed Catalytic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15783-15787.	7.2	53
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109	Catalytic transport of molecular cargo using diffusive binding along a polymer track. <i>Nature Chemistry</i> , 2019, 11, 359-366.	6.6	21

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112	Chemical fuel-driven living and transient supramolecular polymerization. <i>Nature Communications</i> , 2019, 10, 450.	5.8	116
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147	Bio-Assisted Tailored Synthesis of Plasmonic Silver Nanorings and Site-Selective Deposition on Graphene Arrays. <i>Advanced Optical Materials</i> , 2020, 8, 1901583.	3.6	18
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159	Force generation by a propagating wave of supramolecular nanofibers. <i>Nature Communications</i> , 2020, 11, 3541.	5.8	24
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163	Disulfide-Linked Allosteric Modulators for Multi-cycle Kinetic Control of DNA-Based Nanodevices. <i>Angewandte Chemie</i> , 2020, 132, 21244-21249.	1.6	9

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