

Job Boekhoven

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

10,837
citations

46918

47
h-index

30848

102
g-index

140
all docs

140
docs citations

140
times ranked

7497
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbodiimide-fueled catalytic reaction cycles to regulate supramolecular processes. <i>Chemical Communications</i> , 2022, 58, 1284-1297.	2.2	25
2	A rotating bioreactor for the production of biofilms at the solid-air interface. <i>Biotechnology and Bioengineering</i> , 2022, 119, 895-906.	1.7	4
3	Tunable induced circular dichroism in gels. <i>Chirality</i> , 2022, 34, 550-558.	1.3	4
4	Memory, switches, and an OR-port through bistability in chemically fueled crystals. <i>Nature Communications</i> , 2022, 13, .	5.8	19
5	Evolution and Single-Droplet Analysis of Fuel-Driven Compartments by Droplet-Based Microfluidics. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
6	Evolution and Single-Droplet Analysis of Fuel-Driven Compartments by Droplet-Based Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
7	A Method to Quench Carbodiimide-Fueled Self-Assembly. <i>ChemSystemsChem</i> , 2021, 3, e2000037.	1.1	19
8	Accelerated Ripening in Chemically Fueled Emulsions**. <i>ChemSystemsChem</i> , 2021, 3, e2000034.	1.1	18
9	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
10	Parasitic behavior in competing chemically fueled reaction cycles. <i>Chemical Science</i> , 2021, 12, 7554-7560.	3.7	17
11	Molecular Design of Chemically Fueled Peptide-Polyelectrolyte Coacervate-Based Assemblies. <i>Journal of the American Chemical Society</i> , 2021, 143, 4782-4789.	6.6	59
12	Chemically Fueled Block Copolymer Self-Assembly into Transient Nanoreactors**. <i>ChemSystemsChem</i> , 2021, 3, e2100015.	1.1	40
13	Fuel-Driven Dynamic Combinatorial Libraries. <i>Journal of the American Chemical Society</i> , 2021, 143, 7719-7725.	6.6	27
14	Synthesis and characterization of chemically fueled supramolecular materials driven by carbodiimide-based fuels. <i>Nature Protocols</i> , 2021, 16, 3901-3932.	5.5	21
15	Chemical reaction powered transient polymer hydrogels for controlled formation and free release of pharmaceutical crystals. <i>Chemical Engineering Journal</i> , 2021, 414, 128877.	6.6	12
16	Gelation Kinetics-Structure Analysis of pH-Triggered Low Molecular Weight Hydrogelators. <i>ChemPhysChem</i> , 2021, 22, 2256-2261.	1.0	4
17	Viscoelastic behavior of chemically fueled supramolecular hydrogels under load and influence of reaction side products. <i>Communications Materials</i> , 2021, 2, .	2.9	5
18	Racing toward Fast and Effective ¹⁷ O Isotopic Labeling and Nuclear Magnetic Resonance Spectroscopy of N-Formyl-MLF-OH and Associated Building Blocks. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11916-11926.	1.2	6

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19	Emulsions of hydrolyzable oils for the zero-order release of hydrophobic drugs. <i>Journal of Controlled Release</i> , 2021, 339, 498-505.	4.8	17
20	Morphological transitions in chemically fueled self-assembly. <i>Nanoscale</i> , 2021, 13, 19864-19869.	2.8	4
21	How the Choice of Force-Field Affects the Stability and Self-Assembly Process of Supramolecular CTA Fibers. <i>Journal of Chemical Theory and Computation</i> , 2021, , .	2.3	7
22	Molekulare Selbstorganisation 2.0. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 67-68.	0.0	0
23	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
24	Dynamic Vesicles Formed By Dissipative Self-Assembly. <i>ChemSystemsChem</i> , 2020, 2, e1900044.	1.1	53
25	Biomimetic Strain-Stiffening Self-Assembled Hydrogels. <i>Angewandte Chemie</i> , 2020, 132, 4860-4864.	1.6	14
26	Biomimetic Strain-Stiffening Self-Assembled Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4830-4834.	7.2	48
27	The Design of Dissipative Molecular Assemblies Driven by Chemical Reaction Cycles. <i>Chem</i> , 2020, 6, 552-578.	5.8	157
28	Transient supramolecular hydrogels formed by catalytic control over molecular self-assembly. <i>Soft Matter</i> , 2020, 16, 9406-9409.	1.2	8
29	Active coacervate droplets as a model for membraneless organelles and protocells. <i>Nature Communications</i> , 2020, 11, 5167.	5.8	135
30	Reciprocal Coupling in Chemically Fueled Assembly: A Reaction Cycle Regulates Self-Assembly and Vice Versa. <i>Journal of the American Chemical Society</i> , 2020, 142, 20837-20844.	6.6	42
31	Regulating Chemically Fueled Peptide Assemblies by Molecular Design. <i>Journal of the American Chemical Society</i> , 2020, 142, 14142-14149.	6.6	50
32	Electrochemically assisted hydrogel deposition, shaping and detachment. <i>Electrochimica Acta</i> , 2020, 350, 136352.	2.6	6
33	Transient Supramolecular Hydrogels Formed by Aging-Induced Seeded Self-Assembly of Molecular Hydrogelators. <i>Advanced Science</i> , 2020, 7, 1902487.	5.6	30
34	Active droplets in a hydrogel release drugs with a constant and tunable rate. <i>Materials Horizons</i> , 2020, 7, 1397-1403.	6.4	37
35	Locally pH controlled and directed growth of supramolecular gel microshapes using electrocatalytic nanoparticles. <i>Chemical Communications</i> , 2019, 55, 9092-9095.	2.2	10
36	Controlled Fabrication of Micropatterned Supramolecular Gels by Directed Self-Assembly of Small Molecular Gelators. <i>Small</i> , 2019, 15, e1804154.	5.2	11

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37	Pathway Dependence in the Fuel-Driven Dissipative Self-Assembly of Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 9872-9878.	6.6	114
38	Control over the formation of supramolecular material objects using reactionâ€“diffusion. <i>Soft Matter</i> , 2019, 15, 4276-4283.	1.2	17
39	Continuous nonenzymatic cross-replication of DNA strands with <i>in situ</i> activated DNA oligonucleotides. <i>Chemical Science</i> , 2019, 10, 5807-5814.	3.7	26
40	Dissipative Selfâ€“Assembly of Peptides. <i>Israel Journal of Chemistry</i> , 2019, 59, 898-905.	1.0	20
41	Systems Chemistry: Out of Equilibrium. <i>ChemSystemsChem</i> , 2019, 1, 6-6.	1.1	0
42	Tuning gelled lyotropic liquid crystals (LLCs) â€“ probing the influence of different low molecular weight gelators on the phase diagram of the system H ₂ O/NaClâ€“Genapol LA070. <i>Soft Matter</i> , 2019, 15, 3111-3121.	1.2	17
43	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
44	Hierarchically Compartmentalized Supramolecular Gels through Multilevel Self-Sorting. <i>Journal of the American Chemical Society</i> , 2019, 141, 2847-2851.	6.6	44
45	Selfâ€“Orienting Hydrogel Microâ€“Buckets as Novel Cell Carriers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 547-551.	7.2	48
46	Effect of homogeneous acidic catalyst on mechanical strength of trishydrazone hydrogels: Characterization and optimization studies. <i>Arabian Journal of Chemistry</i> , 2018, 11, 635-644.	2.3	4
47	Directed Nanoscale Selfâ€“Assembly of Low Molecular Weight Hydrogelators Using Catalytic Nanoparticles. <i>Advanced Materials</i> , 2018, 30, e1707408.	11.1	20
48	Macromol. Biosci. 2/2018. <i>Macromolecular Bioscience</i> , 2018, 18, 1870004.	2.1	0
49	Macromolecular Coating Enables Tunable Selectivity in a Porous PDMS Matrix. <i>Macromolecular Bioscience</i> , 2018, 18, 1700311.	2.1	8
50	Collection of amino acids and DNA from fingerprints using hydrogels. <i>Analyst, The</i> , 2018, 143, 900-905.	1.7	11
51	Aniline Catalysed Hydrazone Formation Reactions Show a Large Variation in Reaction Rates and Catalytic Effects. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2571-2576.	2.1	15
52	Unique properties of supramolecular biomaterials through nonequilibrium self-assembly. , 2018, , 235-250.		10
53	Complexity from small molecules. <i>Nature Nanotechnology</i> , 2018, 13, 979-980.	15.6	0
54	Self-selection of dissipative assemblies driven by primitive chemical reaction networks. <i>Nature Communications</i> , 2018, 9, 2044.	5.8	147

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55	Dissipative assemblies that inhibit their deactivation. <i>Soft Matter</i> , 2018, 14, 4852-4859.	1.2	53
56	Functional Bioinorganic Hybrids from Enzymes and Luminescent Silicon-Based Nanoparticles. <i>Langmuir</i> , 2018, 34, 6556-6569.	1.6	16
57	Dissipative Self-Assembly of Photoluminescent Silicon Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14608-14612.	7.2	80
58	Vereinigung von Kunst und Wissenschaft: Die 53. BÃ¼rgerstock-Konferenz. <i>Angewandte Chemie</i> , 2018, 130, 10163-10166.	1.6	0
59	Merging Art and Science – The 53rd BÃ¼rgerstock Conference. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10011-10014.	7.2	0
60	Dissipative Selbstassemblierung photolumineszierender Siliciumnanokristalle. <i>Angewandte Chemie</i> , 2018, 130, 14817-14822.	1.6	18
61	Applications of Dissipative Supramolecular Materials with a Tunable Lifetime. <i>ChemNanoMat</i> , 2018, 4, 710-719.	1.5	53
62	A nano-fibrous platform of copolymer patterned surfaces for controlled cell alignment. <i>RSC Advances</i> , 2018, 8, 21777-21785.	1.7	4
63	Crosslinker-Induced Effects on the Gelation Pathway of a Low Molecular Weight Hydrogel. <i>Advanced Materials</i> , 2017, 29, 1603769.	11.1	21
64	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. <i>Journal of the American Chemical Society</i> , 2017, 139, 6120-6127.	6.6	60
65	Biocatalytic Self-Assembly of Tripeptide Gels and Emulsions. <i>Langmuir</i> , 2017, 33, 4986-4995.	1.6	26
66	Synthesis of a Double-Network Supramolecular Hydrogel by Having One Network Catalyse the Formation of the Second. <i>Chemistry - A European Journal</i> , 2017, 23, 2018-2021.	1.7	23
67	Chemical signal activation of an organocatalyst enables control over soft material formation. <i>Nature Communications</i> , 2017, 8, 879.	5.8	21
68	Chemical systems out of equilibrium. <i>Chemical Society Reviews</i> , 2017, 46, 5474-5475.	18.7	136
69	Non-equilibrium dissipative supramolecular materials with a tunable lifetime. <i>Nature Communications</i> , 2017, 8, 15895.	5.8	251
70	Compartmentalizing Supramolecular Hydrogels Using Aqueous Multi-Phase Systems. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14923-14927.	7.2	32
71	Instructing cells with programmable peptide DNA hybrids. <i>Nature Communications</i> , 2017, 8, 15982.	5.8	87
72	Dissipative out-of-equilibrium assembly of man-made supramolecular materials. <i>Chemical Society Reviews</i> , 2017, 46, 5519-5535.	18.7	391

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73	Fuel-Mediated Transient Clustering of Colloidal Building Blocks. <i>Journal of the American Chemical Society</i> , 2017, 139, 9763-9766.	6.6	100
74	Free-standing supramolecular hydrogel objects by reaction-diffusion. <i>Nature Communications</i> , 2017, 8, 15317.	5.8	67
75	Negatively Charged Lipid Membranes Catalyze Supramolecular Hydrogel Formation. <i>Journal of the American Chemical Society</i> , 2016, 138, 8670-8673.	6.6	32
76	Synthetic Self-Assembled Materials in Biological Environments. <i>Advanced Materials</i> , 2016, 28, 4576-4592.	11.1	68
77	A tenascin-C mimetic peptide amphiphile nanofiber gel promotes neurite outgrowth and cell migration of neurosphere-derived cells. <i>Acta Biomaterialia</i> , 2016, 37, 50-58.	4.1	74
78	Bio-inspired supramolecular materials by orthogonal self-assembly of hydrogelators and phospholipids. <i>Chemical Science</i> , 2016, 7, 6021-6031.	3.7	52
79	A facile approach for the fabrication of 2D supermicelle networks. <i>Chemical Communications</i> , 2016, 52, 12360-12363.	2.2	5
80	Catalysis of Supramolecular Hydrogelation. <i>Accounts of Chemical Research</i> , 2016, 49, 1440-1447.	7.6	64
81	A toolbox for controlling the properties and functionalisation of hydrazone-based supramolecular hydrogels. <i>Journal of Materials Chemistry B</i> , 2016, 4, 852-858.	2.9	43
82	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016, 15, 469-476.	13.3	348
83	Biopolymers and supramolecular polymers as biomaterials for biomedical applications. <i>MRS Bulletin</i> , 2015, 40, 1089-1101.	1.7	49
84	Supramolecular Protein Immobilization on Lipid Bilayers. <i>Chemistry - A European Journal</i> , 2015, 21, 18466-18473.	1.7	26
85	Alginate-peptide amphiphile core-shell microparticles as a targeted drug delivery system. <i>RSC Advances</i> , 2015, 5, 8753-8756.	1.7	68
86	Gelation Landscape Engineering Using a Multi-Reaction Supramolecular Hydrogelator System. <i>Journal of the American Chemical Society</i> , 2015, 137, 14236-14239.	6.6	46
87	Transient assembly of active materials fueled by a chemical reaction. <i>Science</i> , 2015, 349, 1075-1079.	6.0	656
88	Spatial Structuring of a Supramolecular Hydrogel by using a Visible-Light Triggered Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 998-1001.	7.2	135
89	Supramolecular assembly of multifunctional maspin-mimetic nanostructures as a potent peptide-based angiogenesis inhibitor. <i>Acta Biomaterialia</i> , 2015, 12, 1-10.	4.1	26
90	Spatial and Directional Control over Self-Assembly Using Catalytic Micropatterned Surfaces. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4132-4136.	7.2	67

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91	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. <i>Nature Communications</i> , 2014, 5, 3321.	5.8	135
92	Variable gelation time and stiffness of low-molecular-weight hydrogels through catalytic control over self-assembly. <i>Nature Protocols</i> , 2014, 9, 977-988.	5.5	64
93	25th Anniversary Article: Supramolecular Materials for Regenerative Medicine. <i>Advanced Materials</i> , 2014, 26, 1642-1659.	11.1	285
94	Catalytic control over the formation of supramolecular materials. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6292-6296.	1.5	22
95	Post-Assembly Functionalization of Supramolecular Nanostructures with Bioactive Peptides and Fluorescent Proteins by Native Chemical Ligation. <i>Bioconjugate Chemistry</i> , 2014, 25, 707-717.	1.8	36
96	Binding of an intravascular delivery vehicle for prevention of arterial restenosis is contingent on tertiary structure. <i>Journal of the American College of Surgeons</i> , 2013, 217, S137.	0.2	0
97	Chemical-gradient directed self-assembly of hydrogel fibers. <i>Soft Matter</i> , 2013, 9, 1556-1561.	1.2	35
98	Aggregation-Driven Reversible Formation of Conjugated Polymers in Water. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1998-2001.	7.2	47
99	Catalytic control over supramolecular gel formation. <i>Nature Chemistry</i> , 2013, 5, 433-437.	6.6	246
100	The Lost Work in Dissipative Self-Assembly. <i>International Journal of Thermophysics</i> , 2013, 34, 1229-1238.	1.0	16
101	Dynamic Display of Bioactivity through Host-Guest Chemistry. <i>Angewandte Chemie</i> , 2013, 125, 12299-12302.	1.6	11
102	Dynamic Display of Bioactivity through Host-Guest Chemistry. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12077-12080.	7.2	114
103	Dynamic covalent assembly of stimuli responsive vesicle gels. <i>Chemical Communications</i> , 2012, 48, 9837.	2.2	43
104	A Self-Assembled Delivery Platform with Post-production Tunable Release Rate. <i>Journal of the American Chemical Society</i> , 2012, 134, 12908-12911.	6.6	98
105	Responsive Wormlike Micelles from Dynamic Covalent Surfactants. <i>Langmuir</i> , 2012, 28, 13570-13576.	1.6	47
106	Micellization Behavior of Aromatic Moiety Bearing Hybrid Fluorocarbon Sulfonate Surfactants. <i>Langmuir</i> , 2012, 28, 3397-3402.	1.6	28
107	Responsive Vesicles from Dynamic Covalent Surfactants. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3421-3424.	7.2	125
108	Programmed Morphological Transitions of Multisegment Assemblies by Molecular Chaperone Analogues. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12285-12289.	7.2	38

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109	Dissipative Self-Assembly of a Molecular Gelator by Using a Chemical Fuel. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4825-4828.	7.2	373
110	Biocatalytic induction of supramolecular order. <i>Nature Chemistry</i> , 2010, 2, 1089-1094.	6.6	324
111	Size control and compartmentalization in self-assembled nano-structures of a multisegment amphiphile. <i>Chemical Communications</i> , 2010, 46, 3490.	2.2	23
112	Self-assembled interpenetrating networks by orthogonal self assembly of surfactants and hydrogelators. <i>Faraday Discussions</i> , 2009, 143, 345.	1.6	45
113	Triggered Self-Assembly of Simple Dynamic Covalent Surfactants. <i>Journal of the American Chemical Society</i> , 2009, 131, 11274-11275.	6.6	174
114	Quantitatively Interpreting Thermal Behavior of Self-Associating Systems. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15597-15601.	1.2	14
115	We Can Design Molecular Gelators, But Do We Understand Them?. <i>Langmuir</i> , 2009, 25, 8392-8394.	1.6	217
116	Preparation of Nanostructures by Orthogonal Self-Assembly of Hydrogelators and Surfactants. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2063-2066.	7.2	184
117	Design and Application of Self-Assembled Low Molecular Weight Hydrogels. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3615-3631.	1.2	541
118	Light-Driven Dynamic Pattern Formation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2373-2376.	7.2	130
119	Two-stage enzyme mediated drug release from LMWG hydrogels. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2917.	1.5	128
120	Entrapment and release of quinoline derivatives using a hydrogel of a low molecular weight gelator. <i>Journal of Controlled Release</i> , 2004, 97, 241-248.	4.8	194
121	Reversible Optical Transcription of Supramolecular Chirality into Molecular Chirality. <i>Science</i> , 2004, 304, 278-281.	6.0	635
122	Responsive Cyclohexane-Based Low-Molecular-Weight Hydrogelators with Modular Architecture. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1663-1667.	7.2	280
123	Orthogonal Self-Assembly of Low Molecular Weight Hydrogelators and Surfactants. <i>Journal of the American Chemical Society</i> , 2003, 125, 14252-14253.	6.6	201
124	New Functional Materials Based on Self-Assembling Organogels: From Serendipity towards Design. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2263-2266.	7.2	1,045
125	New Functional Materials Based on Self-Assembling Organogels: From Serendipity towards Design. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2263-2266.	7.2	64
126	A Dynamic Model for Cellular Membranes. <i>ChemistryViews</i> , 0, , .	0.0	0