Rienk Eelkema

List of Publications by Year
in descending order

96 papers	6,837 citations	71061 41 h-index	60583 81 g-index
112 all docs	112 docs citations	112 times ranked	6768 citing authors

#	Article	IF	Citations
1	Lightâ€Sensitive Phenacyl Crosslinked Dextran Hydrogels for Controlled Delivery**. Chemistry - A European Journal, 2022, 28, .	1.7	8
2	Thioanisole ester based logic gate cascade to control ROS-triggered micellar degradation. Polymer Chemistry, 2022, 13, 2383-2390.	1.9	9
3	Fuel-driven macromolecular coacervation in complex coacervate core micelles. Chemical Science, 2022, 13, 4533-4544.	3.7	18
4	Permanent Electrochemical Doping of Quantum Dot Films through Photopolymerization of Electrolyte Ions. Chemistry of Materials, 2022, 34, 4019-4028.	3.2	1
5	Transient Hostâ€"Guest Complexation To Control Catalytic Activity. Journal of the American Chemical Society, 2022, 144, 9465-9471.	6.6	14
6	On the use of catalysis to bias reaction pathways in out-of-equilibrium systems. Chemical Science, 2021, 12, 4484-4493.	3.7	15
7	Photo cleavable thioacetal block copolymers for controlled release. Polymer Chemistry, 2021, 12, 3612-3618.	1.9	12
8	Tuneable Control of Organocatalytic Activity through Hostâ€"Guest Chemistry. Angewandte Chemie - International Edition, 2021, 60, 14022-14029.	7.2	13
9	Tuneable Control of Organocatalytic Activity through Hostâ€"Guest Chemistry. Angewandte Chemie, 2021, 133, 14141-14148.	1.6	0
10	Ionizing Radiation-Induced Release from Poly(Îµ-caprolactone-<i>b</i>-ethylene glycol) Micelles. ACS Applied Polymer Materials, 2021, 3, 968-975.	2.0	11
11	A Fuelâ€Driven Chemical Reaction Network Based on Conjugate Addition and Elimination Chemistry. ChemSystemsChem, 2020, 2, e1900028.	1.1	15
12	Pros and Cons: Supramolecular or Macromolecular: What Is Best for Functional Hydrogels with Advanced Properties?. Advanced Materials, 2020, 32, e1906012.	11.1	78
13	Biomimetic Strainâ€Stiffening Selfâ€Assembled Hydrogels. Angewandte Chemie, 2020, 132, 4860-4864.	1.6	14
14	Biomimetic Strainâ€Stiffening Selfâ€Assembled Hydrogels. Angewandte Chemie - International Edition, 2020, 59, 4830-4834.	7.2	48
15	Transient supramolecular hydrogels formed by catalytic control over molecular self-assembly. Soft Matter, 2020, 16, 9406-9409.	1.2	8
16	Out-of-Equilibrium Colloidal Assembly Driven by Chemical Reaction Networks. Langmuir, 2020, 36, 10639-10656.	1.6	43
17	Organocatalytic Control over a Fuelâ€Driven Transientâ€Esterification Network**. Angewandte Chemie - International Edition, 2020, 59, 20604-20611.	7.2	30
18	Indoline Catalyzed Acylhydrazone/Oxime Condensation under Neutral Aqueous Conditions. Organic Letters, 2020, 22, 6035-6040.	2.4	15

#	Article	IF	Citations
19	Organocatalytic Control over a Fuelâ€Driven Transientâ€Esterification Network**. Angewandte Chemie, 2020, 132, 20785-20792.	1.6	10
20	Self-Healing Injectable Polymer Hydrogel via Dynamic Thiol-Alkynone Double Addition Cross-Links. ACS Macro Letters, 2020, 9, 776-780.	2.3	36
21	Single-molecule functionality in electronic components based on orbital resonances. Physical Chemistry Chemical Physics, 2020, 22, 12849-12866.	1.3	17
22	Conditional Copperâ€Catalyzed Azideâ€"Alkyne Cycloaddition by Catalyst Encapsulation. Angewandte Chemie, 2020, 132, 9426-9430.	1.6	8
23	Conditional Copperâ€Catalyzed Azideâ€"Alkyne Cycloaddition by Catalyst Encapsulation. Angewandte Chemie - International Edition, 2020, 59, 9340-9344.	7.2	33
24	RÃ¼cktitelbild: Biomimetic Strainâ€Stiffening Selfâ€Assembled Hydrogels (Angew. Chem. 12/2020). Angewandte Chemie, 2020, 132, 5001-5001.	1.6	0
25	Organocatalysis in aqueous media. Nature Reviews Chemistry, 2019, 3, 491-508.	13.8	138
26	Resolving Chemical Modifications to a Single Amino Acid within a Peptide Using a Biological Nanopore. ACS Nano, 2019, 13, 13668-13676.	7.3	76
27	Control over the formation of supramolecular material objects using reactionâ€"diffusion. Soft Matter, 2019, 15, 4276-4283.	1.2	17
28	Hierarchically Compartmentalized Supramolecular Gels through Multilevel Self-Sorting. Journal of the American Chemical Society, 2019, 141, 2847-2851.	6.6	44
29	Supramolecular Gluing of Polymeric Hydrogels. ChemNanoMat, 2018, 4, 772-775.	1.5	8
30	Selective activation of organocatalysts by specific signals. Chemical Science, 2018, 9, 5999-6005.	3.7	18
31	Crosslinkerâ€Induced Effects on the Gelation Pathway of a Low Molecular Weight Hydrogel. Advanced Materials, 2017, 29, 1603769.	11.1	21
32	The relationship between molecular structure and electronic properties in dicyanovinyl substituted acceptor-donor-acceptor chromophores. Tetrahedron, 2017, 73, 4994-5004.	1.0	21
33	Synthesis of a Doubleâ€Network Supramolecular Hydrogel by Having One Network Catalyse the Formation of the Second. Chemistry - A European Journal, 2017, 23, 2018-2021.	1.7	23
34	Design of an efficient coherent multi-site single-molecule rectifier. Physical Chemistry Chemical Physics, 2017, 19, 29187-29194.	1.3	14
35	Chemical signal activation of an organocatalyst enables control over soft material formation. Nature Communications, 2017, 8, 879.	5.8	21
36	Compartmentalizing Supramolecular Hydrogels Using Aqueous Multiâ€phase Systems. Angewandte Chemie, 2017, 129, 15119-15123.	1.6	14

#	Article	IF	Citations
37	Compartmentalizing Supramolecular Hydrogels Using Aqueous Multiâ€phase Systems. Angewandte Chemie - International Edition, 2017, 56, 14923-14927.	7.2	32
38	InnenrÃ¼cktitelbild: Compartmentalizing Supramolecular Hydrogels Using Aqueous Multiâ€phase Systems (Angew. Chem. 47/2017). Angewandte Chemie, 2017, 129, 15363-15363.	1.6	0
39	Dissipative out-of-equilibrium assembly of man-made supramolecular materials. Chemical Society Reviews, 2017, 46, 5519-5535.	18.7	391
40	Fuel-Mediated Transient Clustering of Colloidal Building Blocks. Journal of the American Chemical Society, 2017, 139, 9763-9766.	6.6	100
41	Free-standing supramolecular hydrogel objects by reaction-diffusion. Nature Communications, 2017, 8, 15317.	5.8	67
42	Negatively Charged Lipid Membranes Catalyze Supramolecular Hydrogel Formation. Journal of the American Chemical Society, 2016, 138, 8670-8673.	6.6	32
43	Synthetic Selfâ€Assembled Materials in Biological Environments. Advanced Materials, 2016, 28, 4576-4592.	11.1	68
44	Insulator-protected mechanically controlled break junctions for measuring single-molecule conductance in aqueous environments. Applied Physics Letters, 2016, 109, .	1.5	10
45	A gate-tunable single-molecule diode. Nanoscale, 2016, 8, 8919-8923.	2.8	76
46	Catalysis of Supramolecular Hydrogelation. Accounts of Chemical Research, 2016, 49, 1440-1447.	7.6	64
47	Synthesis of 1,2-biphenylethane based single-molecule diodes. Organic and Biomolecular Chemistry, 2016, 14, 2439-2443.	1.5	11
48	A toolbox for controlling the properties and functionalisation of hydrazone-based supramolecular hydrogels. Journal of Materials Chemistry B, 2016, 4, 852-858.	2.9	43
49	Computational design of donor-bridge-acceptor systems exhibiting pronounced quantum interference effects. Physical Chemistry Chemical Physics, 2016, 18, 6773-6779.	1.3	12
50	Supramolecular Protein Immobilization on Lipid Bilayers. Chemistry - A European Journal, 2015, 21, 18466-18473.	1.7	26
51	Electrical properties and mechanical stability of anchoring groups for single-molecule electronics. Beilstein Journal of Nanotechnology, 2015, 6, 1558-1567.	1.5	69
52	Charge transfer versus molecular conductance: molecular orbital symmetry turns quantum interference rules upside down. Chemical Science, 2015, 6, 4196-4206.	3.7	38
53	Single-Molecule Resonant Tunneling Diode. Journal of Physical Chemistry C, 2015, 119, 5697-5702.	1.5	46
54	Gelation Landscape Engineering Using a Multi-Reaction Supramolecular Hydrogelator System. Journal of the American Chemical Society, 2015, 137, 14236-14239.	6.6	46

#	Article	IF	Citations
55	Transient assembly of active materials fueled by a chemical reaction. Science, 2015, 349, 1075-1079.	6.0	656
56	Spatial Structuring of a Supramolecular Hydrogel by using a Visibleâ€Light Triggered Catalyst. Angewandte Chemie - International Edition, 2015, 54, 998-1001.	7.2	135
57	Spatial and Directional Control over Selfâ€Assembly Using Catalytic Micropatterned Surfaces. Angewandte Chemie - International Edition, 2014, 53, 4132-4136.	7.2	67
58	Variable gelation time and stiffness of low-molecular-weight hydrogels through catalytic control over self-assembly. Nature Protocols, 2014, 9, 977-988.	5.5	64
59	Different Mechanisms for Hole and Electron Transfer along Identical Molecular Bridges: The Importance of the Initial State Delocalization. Journal of Physical Chemistry A, 2014, 118, 3891-3898.	1.1	16
60	Catalytic control over the formation of supramolecular materials. Organic and Biomolecular Chemistry, 2014, 12, 6292-6296.	1.5	22
61	Unbiased Tracking of the Progression of mRNA and Protein Synthesis in Bulk and in Liposomeâ€Confined Reactions. ChemBioChem, 2013, 14, 1963-1966.	1.3	39
62	Designing new symmetrical facial oligothiophene amphiphiles. Organic and Biomolecular Chemistry, 2013, 11, 8435.	1.5	7
63	Aggregationâ€Driven Reversible Formation of Conjugated Polymers in Water. Angewandte Chemie - International Edition, 2013, 52, 1998-2001.	7.2	47
64	Large tunable image-charge effects in single-molecule junctions. Nature Nanotechnology, 2013, 8, 282-287.	15.6	258
65	Signatures of Quantum Interference Effects on Charge Transport Through a Single Benzene Ring. Angewandte Chemie - International Edition, 2013, 52, 3152-3155.	7.2	204
66	Catalytic control over supramolecular gel formation. Nature Chemistry, 2013, 5, 433-437.	6.6	246
67	MARTINI Model for Physisorption of Organic Molecules on Graphite. Journal of Physical Chemistry C, 2013, 117, 15623-15631.	1.5	39
68	The Lost Work in Dissipative Self-Assembly. International Journal of Thermophysics, 2013, 34, 1229-1238.	1.0	16
69	PROFILE: Early Excellence in Physical Organic Chemistry. Journal of Physical Organic Chemistry, 2013, 26, 287-288.	0.9	0
70	Dynamic covalent assembly of stimuli responsive vesicle gels. Chemical Communications, 2012, 48, 9837.	2.2	43
71	A Self-Assembled Delivery Platform with Post-production Tunable Release Rate. Journal of the American Chemical Society, 2012, 134, 12908-12911.	6.6	98
72	Responsive Wormlike Micelles from Dynamic Covalent Surfactants. Langmuir, 2012, 28, 13570-13576.	1.6	47

#	Article	IF	Citations
73	Platinum-nanogaps for single-molecule electronics: room-temperature stability. Physical Chemistry Chemical Physics, 2011, 13, 14297.	1.3	17
74	Self-assembly behaviour of conjugated terthiophenesurfactants in water. New Journal of Chemistry, 2011, 35, 558-567.	1.4	12
75	Charge transport in a zincâ€“porphyrin single-molecule junction. Beilstein Journal of Nanotechnology, 2011, 2, 714-719.	1.5	31
76	Molecular Patterning at a Liquid/Solid Interface: The Foldamer Approach. Langmuir, 2011, 27, 13598-13605.	1.6	2
77	Photo-responsive doped cholesteric liquid crystals. Liquid Crystals, 2011, 38, 1641-1652.	0.9	60
78	Responsive Vesicles from Dynamic Covalent Surfactants. Angewandte Chemie - International Edition, 2011, 50, 3421-3424.	7.2	125
79	Programmed Morphological Transitions of Multisegment Assemblies by Molecular Chaperone Analogues. Angewandte Chemie - International Edition, 2011, 50, 12285-12289.	7.2	38
80	Influence of the Chemical Structure on the Stability and Conductance of Porphyrin Singleâ€Molecule Junctions. Angewandte Chemie - International Edition, 2011, 50, 11223-11226.	7.2	56
81	Introduction of Curvature in Amphipathic Oligothiophenes for Defined Aggregate Formation. Chemistry - A European Journal, 2010, 16, 13417-13428.	1.7	19
82	Dissipative Selfâ€Assembly of a Molecular Gelator by Using a Chemical Fuel. Angewandte Chemie - International Edition, 2010, 49, 4825-4828.	7.2	373
83	Triggered Self-Assembly of Simple Dynamic Covalent Surfactants. Journal of the American Chemical Society, 2009, 131, 11274-11275.	6.6	174
84	Photoinduced Reorganization of Motor-Doped Chiral Liquid Crystals: Bridging Molecular Isomerization and Texture Rotation. Journal of the American Chemical Society, 2008, 130, 14615-14624.	6.6	80
85	Synthesis of End-Functionalized Polyanilines. Macromolecules, 2008, 41, 9930-9933.	2.2	33
86	Radical Cation Stabilization in a Cucurbituril Oligoaniline Rotaxane. Journal of the American Chemical Society, 2007, 129, 12384-12385.	6.6	86
87	Rotational Reorganization of Doped Cholesteric Liquid Crystalline Films. Journal of the American Chemical Society, 2006, 128, 14397-14407.	6.6	200
88	Phosphoric Acids as Amplifiers of Molecular Chirality in Liquid Crystalline Media. Organic Letters, 2006, 8, 1331-1334.	2.4	28
89	Amplification of chirality in liquid crystals. Organic and Biomolecular Chemistry, 2006, 4, 3729.	1.5	299
90	Nanomotor rotates microscale objects. Nature, 2006, 440, 163-163.	13.7	781

#	Article	IF	Citations
91	Reversible Full-Range Color Control of a Cholesteric Liquid-Crystalline Film by using a Molecular Motor. Chemistry - an Asian Journal, 2006, 1, 367-369.	1.7	56
92	Catalytic molecular motors: fuelling autonomous movement by a surface bound synthetic manganese catalase. Chemical Communications, 2005, , 3936.	2.2	113
93	Macroscopic Expression of the Chirality of Amino Alcohols by a Double Amplification Mechanism in Liquid Crystalline Media. Journal of the American Chemical Society, 2005, 127, 13480-13481.	6.6	57
94	Direct Visual Detection of the Stereoselectivity of a Catalytic Reaction. Angewandte Chemie - International Edition, 2004, 43, 5013-5016.	7.2	81
95	De Novo Asymmetric Bio- and Chemocatalytic Synthesis of Saccharides â˘' Stereoselective FormalO-Glycoside Bond Formation Using Palladium Catalysis. Journal of the American Chemical Society, 2003, 125, 8714-8715.	6.6	104
96	Gamma radiation induced contraction of alkyne modified polymer hydrogels. Macromolecular Materials and Engineering, 0, , 2100623.	1.7	4