

Maarten m J Smulders

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	7,193 citations	37 h-index	71 g-index
71 ext. papers	7,888 ext. citations	10.5 avg, IF	6.01 L-index

#	Paper	IF	Citations
65	Supramolecular polymerization. <i>Chemical Reviews</i> , 2009 , 109, 5687-754	68.1	1825
64	Pathway complexity in supramolecular polymerization. <i>Nature</i> , 2012 , 481, 492-6	50.4	643
63	Building on architectural principles for three-dimensional metallosupramolecular construction. <i>Chemical Society Reviews</i> , 2013 , 42, 1728-54	58.5	600
62	Insight into the mechanisms of cooperative self-assembly: the "sergeants-and-soldiers" principle of chiral and achiral C3-symmetrical discotic triamides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 606-11	16.4	429
61	How to distinguish isodesmic from cooperative supramolecular polymerisation. <i>Chemistry - A European Journal</i> , 2010 , 16, 362-7	4.8	374
60	Anion-induced reconstitution of a self-assembling system to express a chloride-binding Co10L15 pentagonal prism. <i>Nature Chemistry</i> , 2012 , 4, 751-6	17.6	226
59	Encapsulation, storage and controlled release of sulfur hexafluoride from a metal-organic capsule. <i>Chemical Communications</i> , 2011 , 47, 457-9	5.8	174
58	Asymmetrically substituted benzene-1,3,5-tricarboxamides: self-assembly and odd-even effects in the solid state and in dilute solution. <i>Chemistry - A European Journal</i> , 2009 , 15, 2071-80	4.8	161
57	Integrative self-sorting synthesis of a Fe8Pt6L24 cubic cage. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6681-5	16.4	150
56	Tuning the extent of chiral amplification by temperature in a dynamic supramolecular polymer. <i>Journal of the American Chemical Society</i> , 2010 , 132, 611-9	16.4	133
55	Selective anion binding by a "chameleon" capsule with a dynamically reconfigurable exterior. <i>Chemical Science</i> , 2011 , 2, 638-641	9.4	125
54	Probing the limits of the majority-rules principle in a dynamic supramolecular polymer. <i>Journal of the American Chemical Society</i> , 2010 , 132, 620-6	16.4	115
53	Dynamic covalent polymers. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 3551-3577	2.5	114
52	Generation of a dynamic system of three-dimensional tetrahedral polycatenanes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5749-52	16.4	113
51	Helicity induction and amplification in an oligo(p-phenylenevinylene) assembly through hydrogen-bonded chiral acids. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8206-11	16.4	110
50	The effect of isotopic substitution on the chirality of a self-assembled helix. <i>Nature Chemistry</i> , 2011 , 3, 42-6	17.6	108
49	Thermodynamics of supramolecular naphthalenediimide nanotube formation: the influence of solvents, side chains, and guest templates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 566-73	16.4	103

48	A stimuli responsive system of self-assembled anion-binding Fe ₄ L ₆ S ₈ cages. <i>Chemical Science</i> , 2013 , 4, 68-76	9.4	96
47	Effect of stereogenic centers on the self-sorting, depolymerization, and atropisomerization kinetics of porphyrin-based aggregates. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12238-46	16.4	94
46	Supramolecular control over Diels-Alder reactivity by encapsulation and competitive displacement. <i>Chemical Science</i> , 2012 , 3, 785-788	9.4	91
45	Star-shaped oligo(p-phenylenevinylene) substituted hexaarylbenzene: purity, stability, and chiral self-assembly. <i>Journal of the American Chemical Society</i> , 2007 , 129, 16190-6	16.4	88
44	Quantitative understanding of guest binding enables the design of complex host-guest behavior. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7039-46	16.4	86
43	Self-assembly of ureido-pyrimidinone dimers into one-dimensional stacks by lateral hydrogen bonding. <i>Chemistry - A European Journal</i> , 2010 , 16, 1601-12	4.8	85
42	Dynamic supramolecular polymers based on benzene-1,3,5-tricarboxamides: the influence of amide connectivity on aggregate stability and amplification of chirality. <i>Chemistry - A European Journal</i> , 2010 , 16, 810-21	4.8	85
41	Designed enclosure enables guest binding within the 4200 Å cavity of a self-assembled cube. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5636-40	16.4	67
40	Template adaptability is key in the oriented crystallization of CaCO ₃ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 14058-67	16.4	62
39	Romantic Surfaces: A Systematic Overview of Stable, Biospecific, and Antifouling Zwitterionic Surfaces. <i>Langmuir</i> , 2019 , 35, 1072-1084	4	58
38	Integrative Self-Sorting Synthesis of a Fe ₈ Pt ₆ L ₂₄ Cubic Cage. <i>Angewandte Chemie</i> , 2012 , 124, 6785-6789	9.6	57
37	C ₃ -symmetrical self-assembled structures investigated by vibrational circular dichroism. <i>Chirality</i> , 2008 , 20, 1016-22	2.1	55
36	Hydrogen-Bond Engineering in Supramolecular Polymers: Polarity Influence on the Self-Assembly of Benzene-1,3,5-tricarboxamides. <i>Macromolecules</i> , 2010 , 43, 1981-1991	5.5	54
35	Guanidinium binding modulates guest exchange within an [M ₄ L ₆] capsule. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6882-5	16.4	50
34	Efficient and Tunable Three-Dimensional Functionalization of Fully Zwitterionic Antifouling Surface Coatings. <i>Langmuir</i> , 2016 , 32, 10199-10205	4	49
33	Systematic Comparison of Zwitterionic and Non-Zwitterionic Antifouling Polymer Brushes on a Bead-Based Platform. <i>Langmuir</i> , 2019 , 35, 1181-1191	4	47
32	Unravelling the fine structure of stacked bipyridine diamine-derived C ₃ -discotics as determined by X-ray diffraction, quantum-chemical calculations, Fast-MAS NMR and CD spectroscopy. <i>Chemical Science</i> , 2011 , 2, 69-76	9.4	46
31	Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6728-6733	7.3	42

30	Chain-reaction anion exchange between metal-organic cages. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5678-84	16.4	42
29	Self-Assembly of Functional Discrete Three-Dimensional Architectures in Water. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1280-1307	16.4	39
28	Multi-responsive coordination polymers utilising metal-stabilised, dynamic covalent imine bonds. <i>Chemical Communications</i> , 2016 , 52, 9059-62	5.8	32
27	Generation of a Dynamic System of Three-Dimensional Tetrahedral Polycatenanes. <i>Angewandte Chemie</i> , 2013 , 125, 5861-5864	3.6	32
26	Cooperative Two-Component Self-Assembly of Mono- and Ditopic Monomers. <i>Macromolecules</i> , 2011 , 44, 6581-6587	5.5	32
25	Designed Enclosure Enables Guest Binding Within the 4200 Å Cavity of a Self-Assembled Cube. <i>Angewandte Chemie</i> , 2015 , 127, 5728-5732	3.6	28
24	Highly Specific Binding on Antifouling Zwitterionic Polymer-Coated Microbeads as Measured by Flow Cytometry. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38211-38221	9.5	27
23	Structure and Long-Term Stability of Alkylphosphonic Acid Monolayers on SS316L Stainless Steel. <i>Langmuir</i> , 2016 , 32, 1047-57	4	24
22	Quantification of Stereochemical Communication in Metal-Organic Assemblies. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10616-20	16.4	18
21	Molecular control over vitrimer-like mechanics - tuneable dynamic motifs based on the Hammett equation in polyimine materials. <i>Chemical Science</i> , 2020 , 12, 293-302	9.4	18
20	Steering the Self-Assembly Outcome of a Single NDI Monomer into Three Morphologically Distinct Supramolecular Assemblies, with Concomitant Change in Supramolecular Polymerization Mechanism. <i>Advanced Science</i> , 2019 , 6, 1900577	13.6	16
19	PLL-Poly(HPMA) Bottlebrush-Based Antifouling Coatings: Three Grafting Routes. <i>Langmuir</i> , 2020 , 36, 10187-10199	4	16
18	Use of Ambient Ionization High-Resolution Mass Spectrometry for the Kinetic Analysis of Organic Surface Reactions. <i>Langmuir</i> , 2016 , 32, 3412-9	4	16
17	The Role of Synthetic Pharmaceutical Polymer Excipients in Oral Dosage Forms [Poly(ethylene oxide)-graft-poly(vinyl alcohol) Copolymers in Tablet Coatings. <i>Macromolecular Symposia</i> , 2005 , 225, 81-94	0.8	14
16	Guanidinium Binding Modulates Guest Exchange within an [M4L6] Capsule. <i>Angewandte Chemie</i> , 2012 , 124, 6988-6991	3.6	13
15	Selbstorganisation von funktionellen diskreten dreidimensionalen Architekturen in Wasser. <i>Angewandte Chemie</i> , 2019 , 131, 1292-1320	3.6	12
14	Direct Creation of Biopatterns via a Combination of Laser-Based Techniques and Click Chemistry. <i>Langmuir</i> , 2017 , 33, 848-853	4	11
13	Molecular recognition controls the organization of mixed self-organized bis-urea-based mineralization templates for CaCO ₃ . <i>Langmuir</i> , 2007 , 23, 12655-62	4	11

12	The effect of polarity on the molecular exchange dynamics in imine-based covalent adaptable networks. <i>Polymer Chemistry</i> , 2021 , 12, 1635-1642	4.9	11
11	Diblock and Random Antifouling Bioactive Polymer Brushes on Gold Surfaces by Visible-Light-Induced Polymerization (SI-PET-RAFT) in Water. <i>Advanced Materials Interfaces</i> , 2022 , 9, 21017784	4.6	11
10	Design, Synthesis, and Characterization of Fully Zwitterionic, Functionalized Dendrimers. <i>ACS Omega</i> , 2019 , 4, 3000-3011	3.9	8
9	Highly Polymer-Repellent yet Atomically Flat Surfaces Based on Organic Monolayers with a Single Fluorine Atom. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500514	4.6	7
8	Quantification of Stereochemical Communication in Metal-Organic Assemblies. <i>Angewandte Chemie</i> , 2016 , 128, 10774-10778	3.6	7
7	Surface-bound quadruple H-bonded dimers: formation and exchange kinetics. <i>Faraday Discussions</i> , 2017 , 204, 383-394	3.6	5
6	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6710-6714	3.9	4
5	Supramolecular Additive-Initiated Controlled Atom Transfer Radical Polymerization of Zwitterionic Polymers on Ureido-pyrimidinone-Based Biomaterial Surfaces. <i>Macromolecules</i> , 2020 , 53, 4454-4464	5.5	3
4	Thermoresponsive, Pyrrolidone-Based Antifouling Polymer Brushes. <i>Advanced Materials Interfaces</i> , 2017 , 10, 1701171	4.1	3
3	Self-healing antifouling polymer brushes: Effects of degree of fluorination. <i>Applied Surface Science</i> , 2022 , 579, 152264	6.7	2
2	Zwitterionic dendrimer [Polymer hybrid copolymers for self-assembling antifouling coatings. <i>European Polymer Journal</i> , 2021 , 156, 110578	5.2	2
1	Innenrücktitelbild: Designed Enclosure Enables Guest Binding Within the 4200 Å Cavity of a Self-Assembled Cube (Angew. Chem. 19/2015). <i>Angewandte Chemie</i> , 2015 , 127, 5887-5887	3.6	