Maarten m J Smulders

List of Publications by Year in Descending Order

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	Self-healing antifouling polymer brushes: Effects of degree of fluorination. *Applied Surface Science*, **2022**, 579, 152264	6.7	2
64	Diblock and Random Antifouling Bioactive Polymer Brushes on Gold Surfaces by Visible-Light-Induced Polymerization (SI-PET-RAFT) in Water. *Advanced Materials Interfaces*, **2022**, 9, 2101784	4.6	11
63	The effect of polarity on the molecular exchange dynamics in imine-based covalent adaptable networks. *Polymer Chemistry*, **2021**, 12, 1635-1642	4.9	11
62	Zwitterionic dendrimer–Polymer hybrid copolymers for self-assembling antifouling coatings. *European Polymer Journal*, **2021**, 156, 110578	5.2	2
61	Supramolecular Additive-Initiated Controlled Atom Transfer Radical Polymerization of Zwitterionic Polymers on Ureido-pyrimidinone-Based Biomaterial Surfaces. *Macromolecules*, **2020**, 53, 4454-4464	5.5	3
60	PLL-Poly(HPMA) Bottlebrush-Based Antifouling Coatings: Three Grafting Routes. *Langmuir*, **2020**, 36, 10187-10199	4	16
59	Molecular control over vitrimer-like mechanics - tuneable dynamic motifs based on the Hammett equation in polyimine materials. *Chemical Science*, **2020**, 12, 293-302	9.4	18
58	Steering the Self-Assembly Outcome of a Single NDI Monomer into Three Morphologically Distinct Supramolecular Assemblies, with Concomitant Change in Supramolecular Polymerization Mechanism. *Advanced Science*, **2019**, 6, 1900577	13.6	16
57	Selbstorganisation von funktionellen diskreten dreidimensionalen Architekturen in Wasser. *Angewandte Chemie*, **2019**, 131, 1292-1320	3.6	12
56	Self-Assembly of Functional Discrete Three-Dimensional Architectures in Water. *Angewandte Chemie - International Edition*, **2019**, 58, 1280-1307	16.4	39
55	Design, Synthesis, and Characterization of Fully Zwitterionic, Functionalized Dendrimers. *ACS Omega*, **2019**, 4, 3000-3011	3.9	8
54	Romantic Surfaces: A Systematic Overview of Stable, Biospecific, and Antifouling Zwitterionic Surfaces. *Langmuir*, **2019**, 35, 1072-1084	4	58
53	Systematic Comparison of Zwitterionic and Non-Zwitterionic Antifouling Polymer Brushes on a Bead-Based Platform. *Langmuir*, **2019**, 35, 1181-1191	4	47
52	Direct Creation of Biopatterns via a Combination of Laser-Based Techniques and Click Chemistry. *Langmuir*, **2017**, 33, 848-853	4	11
51	Highly Specific Binding on Antifouling Zwitterionic Polymer-Coated Microbeads as Measured by Flow Cytometry. *ACS Applied Materials & Interfaces*, **2017**, 9, 38211-38221	9.5	27
50	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. *Organic and Biomolecular Chemistry*, **2017**, 15, 6710-6714	3.9	4
49	Surface-bound quadruple H-bonded dimers: formation and exchange kinetics. *Faraday Discussions*, **2017**, 204, 383-394	3.6	5

48	Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. *Journal of Materials Chemistry B*, **2017**, 5, 6728-6733	7.3	42
47	Dynamic covalent polymers. *Journal of Polymer Science Part A*, **2016**, 54, 3551-3577	2.5	114
46	Highly Polymer-Repellent yet Atomically Flat Surfaces Based on Organic Monolayers with a Single Fluorine Atom. *Advanced Materials Interfaces*, **2016**, 3, 1500514	4.6	7
45	Structure and Long-Term Stability of Alkylphosphonic Acid Monolayers on SS316L Stainless Steel. *Langmuir*, **2016**, 32, 1047-57	4	24
44	Multi-responsive coordination polymers utilising metal-stabilised, dynamic covalent imine bonds. *Chemical Communications*, **2016**, 52, 9059-62	5.8	32
43	Quantification of Stereochemical Communication in Metal-Organic Assemblies. *Angewandte Chemie*, **2016**, 128, 10774-10778	3.6	7
42	Quantification of Stereochemical Communication in Metal-Organic Assemblies. *Angewandte Chemie - International Edition*, **2016**, 55, 10616-20	16.4	18
41	Use of Ambient Ionization High-Resolution Mass Spectrometry for the Kinetic Analysis of Organic Surface Reactions. *Langmuir*, **2016**, 32, 3412-9	4	16
40	Efficient and Tunable Three-Dimensional Functionalization of Fully Zwitterionic Antifouling Surface Coatings. *Langmuir*, **2016**, 32, 10199-10205	4	49
39	Designed enclosure enables guest binding within the 4200 Å³ cavity of a self-assembled cube. *Angewandte Chemie - International Edition*, **2015**, 54, 5636-40	16.4	67
38	Innenrücktitelbild: Designed Enclosure Enables Guest Binding Within the 4200 Å³ Cavity of a Self-Assembled Cube (Angew. Chem. 19/2015). *Angewandte Chemie*, **2015**, 127, 5887-5887	3.6	
37	Designed Enclosure Enables Guest Binding Within the 4200 Å³ Cavity of a Self-Assembled Cube. *Angewandte Chemie*, **2015**, 127, 5728-5732	3.6	28
36	Chain-reaction anion exchange between metal-organic cages. *Journal of the American Chemical Society*, **2013**, 135, 5678-84	16.4	42
35	Generation of a dynamic system of three-dimensional tetrahedral polycatenanes. *Angewandte Chemie - International Edition*, **2013**, 52, 5749-52	16.4	113
34	Quantitative understanding of guest binding enables the design of complex host-guest behavior. *Journal of the American Chemical Society*, **2013**, 135, 7039-46	16.4	86
33	A stimuli responsive system of self-assembled anion-binding Fe4L68+ cages. *Chemical Science*, **2013**, 4, 68-76	9.4	96
32	Building on architectural principles for three-dimensional metallosupramolecular construction. *Chemical Society Reviews*, **2013**, 42, 1728-54	58.5	600
31	Generation of a Dynamic System of Three-Dimensional Tetrahedral Polycatenanes. *Angewandte Chemie*, **2013**, 125, 5861-5864	3.6	32

30	Anion-induced reconstitution of a self-assembling system to express a chloride-binding Co10L15 pentagonal prism. *Nature Chemistry*, **2012**, 4, 751-6	17.6	226
29	Thermodynamics of supramolecular naphthalenediimide nanotube formation: the influence of solvents, side chains, and guest templates. *Journal of the American Chemical Society*, **2012**, 134, 566-73	16.4	103
28	Supramolecular control over Diels–Alder reactivity by encapsulation and competitive displacement. *Chemical Science*, **2012**, 3, 785-788	9.4	91
27	Pathway complexity in supramolecular polymerization. *Nature*, **2012**, 481, 492-6	50.4	643
26	Integrative Self-Sorting Synthesis of a Fe8Pt6L24 Cubic Cage. *Angewandte Chemie*, **2012**, 124, 6785-6789	3.6	57
25	Guanidinium Binding Modulates Guest Exchange within an [M4L6] Capsule. *Angewandte Chemie*, **2012**, 124, 6988-6991	3.6	13
24	Integrative self-sorting synthesis of a Fe8Pt6L24 cubic cage. *Angewandte Chemie - International Edition*, **2012**, 51, 6681-5	16.4	150
23	Guanidinium binding modulates guest exchange within an [M4L6] capsule. *Angewandte Chemie - International Edition*, **2012**, 51, 6882-5	16.4	50
22	Encapsulation, storage and controlled release of sulfur hexafluoride from a metal-organic capsule. *Chemical Communications*, **2011**, 47, 457-9	5.8	174
21	Selective anion binding by a "chameleon" capsule with a dynamically reconfigurable exterior. *Chemical Science*, **2011**, 2, 638-641	9.4	125
20	The effect of isotopic substitution on the chirality of a self-assembled helix. *Nature Chemistry*, **2011**, 3, 42-6	17.6	108
19	Unravelling the fine structure of stacked bipyridine diamine-derived C3-discotics as determined by X-ray diffraction, quantum-chemical calculations, Fast-MAS NMR and CD spectroscopy. *Chemical Science*, **2011**, 2, 69-76	9.4	46
18	Cooperative Two-Component Self-Assembly of Mono- and Ditopic Monomers. *Macromolecules*, **2011**, 44, 6581-6587	5.5	32
17	Effect of stereogenic centers on the self-sorting, depolymerization, and atropisomerization kinetics of porphyrin-based aggregates. *Journal of the American Chemical Society*, **2011**, 133, 12238-46	16.4	94
16	Hydrogen-Bond Engineering in Supramolecular Polymers: Polarity Influence on the Self-Assembly of Benzene-1,3,5-tricarboxamides. *Macromolecules*, **2010**, 43, 1981-1991	5.5	54
15	Probing the limits of the majority-rules principle in a dynamic supramolecular polymer. *Journal of the American Chemical Society*, **2010**, 132, 620-6	16.4	115
14	Tuning the extent of chiral amplification by temperature in a dynamic supramolecular polymer. *Journal of the American Chemical Society*, **2010**, 132, 611-9	16.4	133
13	Self-assembly of ureido-pyrimidinone dimers into one-dimensional stacks by lateral hydrogen bonding. *Chemistry - A European Journal*, **2010**, 16, 1601-12	4.8	85

12	How to distinguish isodesmic from cooperative supramolecular polymerisation. *Chemistry - A European Journal*, **2010**, 16, 362-7	4.8	374
11	Dynamic supramolecular polymers based on benzene-1,3,5-tricarboxamides: the influence of amide connectivity on aggregate stability and amplification of chirality. *Chemistry - A European Journal*, **2010**, 16, 810-21	4.8	85
10	Asymmetrically substituted benzene-1,3,5-tricarboxamides: self-assembly and odd-even effects in the solid state and in dilute solution. *Chemistry - A European Journal*, **2009**, 15, 2071-80	4.8	161
9	Supramolecular polymerization. *Chemical Reviews*, **2009**, 109, 5687-754	68.1	1825
8	Insight into the mechanisms of cooperative self-assembly: the "sergeants-and-soldiers" principle of chiral and achiral C3-symmetrical discotic triamides. *Journal of the American Chemical Society*, **2008**, 130, 606-11	16.4	429
7	C3-symmetrical self-assembled structures investigated by vibrational circular dichroism. *Chirality*, **2008**, 20, 1016-22	2.1	55
6	Molecular recognition controls the organization of mixed self-organized bis-urea-based mineralization templates for CaCO(3). *Langmuir*, **2007**, 23, 12655-62	4	11
5	Helicity induction and amplification in an oligo(p-phenylenevinylene) assembly through hydrogen-bonded chiral acids. *Angewandte Chemie - International Edition*, **2007**, 46, 8206-11	16.4	110
4	Star-shaped oligo(p-phenylenevinylene) substituted hexaarylbenzene: purity, stability, and chiral self-assembly. *Journal of the American Chemical Society*, **2007**, 129, 16190-6	16.4	88
3	Template adaptability is key in the oriented crystallization of CaCO3. *Journal of the American Chemical Society*, **2007**, 129, 14058-67	16.4	62
2	The Role of Synthetic Pharmaceutical Polymer Excipients in Oral Dosage Forms Poly(ethylene oxide)-graft-poly(vinyl alcohol) Copolymers in Tablet Coatings. *Macromolecular Symposia*, **2005**, 225, 81-94	0.8	14
1	Thermoresponsive, Pyrrolidone-Based Antifouling Polymer Brushes. *Advanced Materials Interfaces*,2101716	4.7	3