

Nicolaas A Vermeulen

List of Publications by Year in descending order

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55
papers

6,152
citations

87888

38
h-index

144013

57
g-index

60
all docs

60
docs citations

60
times ranked

8000
citing authors

#	ARTICLE	IF	CITATIONS
1	Best Practices for the Synthesis, Activation, and Characterization of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2017, 29, 26-39.	6.7	518
2	A Hafnium-Based Metal-Organic Framework as an Efficient and Multifunctional Catalyst for Facile CO ₂ Fixation and Regioselective and Enantioselective Epoxide Activation. <i>Journal of the American Chemical Society</i> , 2014, 136, 15861-15864.	13.7	470
3	An artificial molecular pump. <i>Nature Nanotechnology</i> , 2015, 10, 547-553.	31.5	420
4	Ultrahigh Surface Area Zirconium MOFs and Insights into the Applicability of the BET Theory. <i>Journal of the American Chemical Society</i> , 2015, 137, 3585-3591.	13.7	329
5	Bottom-up construction of a superstructure in a porous uranium-organic crystal. <i>Science</i> , 2017, 356, 624-627.	12.6	286
6	Hierarchically Engineered Mesoporous Metal-Organic Frameworks toward Cell-free Immobilized Enzyme Systems. <i>Chem</i> , 2018, 4, 1022-1034.	11.7	281
7	Scalable synthesis and post-modification of a mesoporous metal-organic framework called NU-1000. <i>Nature Protocols</i> , 2016, 11, 149-162.	12.0	276
8	CD-MOF: A Versatile Separation Medium. <i>Journal of the American Chemical Society</i> , 2016, 138, 2292-2301.	13.7	269
9	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. <i>Science Advances</i> , 2016, 2, e1600909.	10.3	231
10	An Exceptionally Stable Metal-Organic Framework Supported Molybdenum(VI) Oxide Catalyst for Cyclohexene Epoxidation. <i>Journal of the American Chemical Society</i> , 2016, 138, 14720-14726.	13.7	211
11	Supramolecular Explorations: Inhibiting the Content of Extended Cationic Cyclophanes. <i>Accounts of Chemical Research</i> , 2016, 49, 262-273.	15.6	193
12	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10358-10362.	13.8	175
13	Aerobic Linear Allylic C-H Amination: Overcoming Benzoquinone Inhibition. <i>Journal of the American Chemical Society</i> , 2016, 138, 1265-1272.	13.7	140
14	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 13624-13631.	13.7	137
15	ExCage. <i>Journal of the American Chemical Society</i> , 2014, 136, 10669-10682.	13.7	132
16	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1949-1953.	13.8	121
17	Pillar[5]arene as a Co-Factor in Templating Rotaxane Formation. <i>Journal of the American Chemical Society</i> , 2013, 135, 17019-17030.	13.7	117
18	The Fe(PDP)-catalyzed aliphatic C-H oxidation: a slow addition protocol. <i>Tetrahedron</i> , 2009, 65, 3078-3084.	1.9	105

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19	Non-Interpenetrated Metal-Organic Frameworks Based on Copper(II) Paddlewheel and Oligoparaxylene-Isophthalate Linkers: Synthesis, Structure, and Gas Adsorption. <i>Journal of the American Chemical Society</i> , 2016, 138, 3371-3381.	13.7	104
20	Rendering High Surface Area, Mesoporous Metal-Organic Frameworks Electronically Conductive. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12584-12591.	8.0	98
21	Synthesis of Complex Allylic Esters via C-H Oxidation vs C-C Bond Formation. <i>Journal of the American Chemical Society</i> , 2010, 132, 11323-11328.	13.7	97
22	Ex2Box: Interdependent Modes of Binding in a Two-Nanometer-Long Synthetic Receptor. <i>Journal of the American Chemical Society</i> , 2013, 135, 12736-12746.	13.7	92
23	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 909-913.	13.8	88
24	Synthesis of Ex2Box Cyclophanes. <i>Journal of Organic Chemistry</i> , 2013, 78, 11962-11969.	3.2	85
25	A metal-organic framework immobilised iridium pincer complex. <i>Chemical Science</i> , 2016, 7, 4980-4984.	7.4	78
26	Polyol Synthesis through Hydrocarbon Oxidation: De Novo Synthesis of L-Galactose. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8217-8220.	13.8	75
27	Energetically Demanding Transport in a Supramolecular Assembly. <i>Journal of the American Chemical Society</i> , 2014, 136, 14702-14705.	13.7	72
28	Aromatizing Olefin Metathesis by Ligand Isolation inside a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 14916-14919.	13.7	65
29	Energy and Electron Transfer Dynamics within a Series of Perylene Diimide/Cyclophane Systems. <i>Journal of the American Chemical Society</i> , 2015, 137, 15299-15307.	13.7	64
30	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4349-4352.	2.0	59
31	Functionalized Defects through Solvent-Assisted Linker Exchange: Synthesis, Characterization, and Partial Postsynthesis Elaboration of a Metal-Organic Framework Containing Free Carboxylic Acid Moieties. <i>Inorganic Chemistry</i> , 2015, 54, 1785-1790.	4.0	58
32	Gated Electron Sharing Within Dynamic Naphthalene Diimide-Based Oligorotaxanes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4442-4449.	13.8	57
33	A visually detectable pH responsive zirconium metal-organic framework. <i>Chemical Communications</i> , 2016, 52, 3438-3441.	4.1	57
34	Modulating the Binding of Polycyclic Aromatic Hydrocarbons Inside a Hexacationic Cage by Anion Interactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 456-461.	13.8	55
35	Effect of Redox Non-Innocent-Linker on the Catalytic Activity of Copper-Catecholate-Decorated Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 635-641.	8.0	52
36	Layer-by-Layer Assembled Films of Perylene Diimide- and Squaraine-Containing Metal-Organic Framework-like Materials: Solar Energy Capture and Directional Energy Transfer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24983-24988.	8.0	44

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37	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie</i> , 2016, 128, 10514-10518.	2.0	44
38	Ultrafast Two-Electron Transfer in a CdS Quantum Dot-Extended-Viologen Cyclophane Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 6163-6170.	13.7	42
39	An ExBox [2]catenane. <i>Chemical Science</i> , 2014, 5, 2724.	7.4	33
40	The Synthesis Science of Targeted Vapor-Phase Metal-Organic Framework Postmodification. <i>Journal of the American Chemical Society</i> , 2020, 142, 242-250.	13.7	32
41	Towards hydroxamic acid linked zirconium metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1194-1199.	5.9	29
42	Catenation through a Combination of Radical Templation and Ring-Closing Metathesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 15640-15643.	13.7	28
43	Allosteric Modulation of Substrate Binding within a Tetracationic Molecular Receptor. <i>Journal of the American Chemical Society</i> , 2015, 137, 13252-13255.	13.7	27
44	Formation of a hetero[3]rotaxane by a dynamic component-swapping strategy. <i>Chemical Communications</i> , 2014, 50, 9665-9668.	4.1	25
45	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie</i> , 2018, 130, 1967-1971.	2.0	24
46	Liquid-Phase Epitaxially Grown Metal-Organic Framework Thin Films for Efficient Tandem Catalysis Through Site-Isolation of Catalytic Centers. <i>ChemPlusChem</i> , 2016, 81, 708-713.	2.8	21
47	SALE-Using a MOF-Based -Ship of Theseus- Sequential Building-Block Replacement for Complete Reformulation of a Pillared-Paddlewheel Metal-Organic Framework. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4345-4348.	2.0	21
48	Magnetic Control of MOF Crystal Orientation and Alignment. <i>Chemistry - A European Journal</i> , 2017, 23, 15578-15582.	3.3	20
49	Cooperative Reactivity in an Extended-Viologen-Based Cyclophane. <i>Journal of the American Chemical Society</i> , 2016, 138, 3667-3670.	13.7	16
50	Isomerization and Selective Hydrogenation of Propyne: Screening of Metal-Organic Frameworks Modified by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2020, 142, 20380-20389.	13.7	15
51	Influence of spin state and electron configuration on the active site and mechanism for catalytic hydrogenation on metal cation catalysts supported on NU-1000: insights from experiments and microkinetic modeling. <i>Catalysis Science and Technology</i> , 2020, 10, 3594-3602.	4.1	14
52	Extending the Compositional Range of Nanocasting in the Oxozirconium Cluster-Based Metal-Organic Framework NU-1000-A Comparative Structural Analysis. <i>Chemistry of Materials</i> , 2018, 30, 1301-1315.	6.7	10
53	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie</i> , 2018, 130, 921-925.	2.0	3
54	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4266-4266.	2.0	1

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55	Frontispiece: Magnetic Control of MOF Crystal Orientation and Alignment. Chemistry - A European Journal, 2017, 23, .	3.3	0