

Arie van der Lee

List of Publications by Year in descending order

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papers

1,503
citations

430874

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66
docs citations

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times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Columnar Self-Assembled Ureido Crown Ethers: An Example of Ion-Channel Organization in Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2006, 128, 9541-9548.	13.7	167
2	Imidazole-Quartet Water and Proton Dipolar Channels. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11366-11372.	13.8	142
3	Salt-Excluding Artificial Water Channels Exhibiting Enhanced Dipolar Water and Proton Translocation. <i>Journal of the American Chemical Society</i> , 2016, 138, 5403-5409.	13.7	111
4	Dynamic hybrid materials for constitutional self-instructed membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8117-8122.	7.1	95
5	Single-Crystal X-ray Structure of 1,3-Dimethylcyclobutadiene by Confinement in a Crystalline Matrix. <i>Science</i> , 2010, 329, 299-302.	12.6	91
6	An artificial primitive mimic of the Gramicidin-A channel. <i>Nature Communications</i> , 2014, 5, 4142.	12.8	85
7	Organocatalyzed Cyclopropanation of α -Substituted α -Unsaturated Aldehydes: Enantioselective Synthesis of Cyclopropanes Bearing a Chiral Quaternary Center. <i>Chemistry - A European Journal</i> , 2010, 16, 7875-7880.	3.3	75
8	Oriented chiral water wires in artificial transmembrane channels. <i>Science Advances</i> , 2018, 4, eaao5603.	10.3	69
9	High-pressure synthesis of a polyethylene/zeolite nano-composite material. <i>Nature Communications</i> , 2013, 4, 1557.	12.8	62
10	Ion-Conduction Pathways in Self-Organised Ureidoarene-Heteropolysiloxane Hybrid Membranes. <i>Chemistry - A European Journal</i> , 2008, 14, 1776-1783.	3.3	46
11	Structure-Driven Selection of Adaptive Transmembrane Na^+ Carriers or K^+ Channels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10520-10524.	13.8	34
12	Charge flipping for routine structure solution. <i>Journal of Applied Crystallography</i> , 2013, 46, 1306-1315.	4.5	33
13	Thermal expansion properties of organic crystals: a CSD study. <i>Chemical Science</i> , 2021, 12, 8537-8547.	7.4	31
14	Synthesis of 1D Polymer/Zeolite Nanocomposites under High Pressure. <i>Chemistry of Materials</i> , 2016, 28, 4065-4071.	6.7	30
15	Hydroxy Channels Adaptive Pathways for Selective Water Cluster Permeation. <i>Journal of the American Chemical Society</i> , 2021, 143, 4224-4233.	13.7	27
16	A Voltage-Responsive Synthetic Cl^- Channel Regulated by pH. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18920-18926.	13.8	26
17	High-Pressure Phase Transition, Pore Collapse, and Amorphization in the Siliceous 1D Zeolite, TON. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4283-4292.	3.1	20
18	Progressive compression of 1,1%-diammonium-alkanes inside a rigid crystalline molecular cage. <i>Chemical Communications</i> , 2014, 50, 14086-14088.	4.1	19

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19	Unprecedented Synthesis of 1,3-Dimethylcyclobutadiene in the Solid State and Aqueous Solution. <i>Chemistry - A European Journal</i> , 2011, 17, 10021-10028.	3.3	18
20	Styryl-Functionalized Cage Silsesquioxanes as Nanoblocks for 3-D Assembly. <i>Organometallics</i> , 2020, 39, 1896-1906.	2.3	18
21	Adaptive binding and selection of compressed 1,1'-diammonium-alkanes via molecular encapsulation in water. <i>Chemical Science</i> , 2015, 6, 2079-2086.	7.4	17
22	Pressure-Induced Insertion of Ammonia Borane in the Siliceous Zeolite, Silicalite-1F. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9334-9340.	3.1	17
23	Bilayer versus Polymeric Artificial Water Channel Membranes: Structural Determinants for Enhanced Filtration Performances. <i>Journal of the American Chemical Society</i> , 2021, 143, 14386-14393.	13.7	17
24	Experimental and theoretical evidence of a supercritical-like transition in an organic semiconductor presenting colossal uniaxial negative thermal expansion. <i>Chemical Science</i> , 2018, 9, 3948-3956.	7.4	16
25	Structure-Driven Selection of Adaptive Transmembrane Na + Carriers or K + Channels. <i>Angewandte Chemie</i> , 2018, 130, 10680-10684.	2.0	14
26	Self-Assembled Columnar Triazole Quartets: An Example of Synergistic Hydrogen Bonding/Anion-π Interactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12037-12042.	13.8	14
27	Prospect of Thiazole-based Peptide Foldamers in Enamine Catalysis: Exploration of the Nitro-Michael Addition. <i>Chemistry - A European Journal</i> , 2019, 25, 7396-7401.	3.3	14
28	Functionalised polyhedral oligomeric silsesquioxane with encapsulated fluoride – first observation of fluxional Si-F interactions in POSS. <i>Dalton Transactions</i> , 2021, 50, 81-89.	3.3	14
29	Saturation of the Siliceous Zeolite TON with Neon at High Pressure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8455-8460.	3.1	11
30	Packing Polymorphism Affecting the Optoelectronic Properties of a π-Conjugated Organic Compound. <i>Crystal Growth and Design</i> , 2021, 21, 3850-3863.	3.0	11
31	New π-Pyrene Box-Cages for Adaptive Guest Conformations. <i>Organic Letters</i> , 2015, 17, 2178-2181.	4.6	10
32	Joint Experimental and Computational Investigation of the Flexibility of a Diacetylene-Based Mixed-Linker MOF: Revealing the Existence of Two Low-Temperature Phase Transitions and the Presence of Colossal Positive and Giant Negative Thermal Expansions. <i>Chemistry - A European Journal</i> , 2018, 24, 1586-1605.	3.3	10
33	Self-Assembled Columnar Triazole Quartets: An Example of Synergistic Hydrogen Bonding/Anion-π Interactions. <i>Angewandte Chemie</i> , 2019, 131, 12165-12170.	2.0	9
34	Evidence of environmental strains on charge injection in silole-based organic light-emitting diodes. <i>Physical Review B</i> , 2007, 75, .	3.2	8
35	Adaptive Encapsulation of π-Amino Acids and Their Guanidinium-Amide Congeners. <i>Organic Letters</i> , 2016, 18, 5556-5559.	4.6	8
36	π-Pyrene Box-Cages for the Confinement of Biogenic Amines. <i>Chemistry - A European Journal</i> , 2017, 23, 4037-4041.	3.3	8

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37	Synthesis and crystal structures of new phosphoric triamides: study of intermolecular interactions by semi-empirical calculations and Hirshfeld surface analysis. <i>Monatshefte für Chemie</i> , 2018, 149, 1759-1776.	1.8	8
38	Iron-Catalyzed Enantioselective Intramolecular Inverse Electron-Demand Hetero Diels-Alder Reactions: An Access to Bicyclic Dihydropyran Derivatives. <i>Organic Letters</i> , 2019, 21, 10007-10012.	4.6	8
39	A detailed theoretical and experimental study on the N-H, P-O and C-O stretching frequencies in two new phosphoric triamides and a statistical comparison with analogous structures. <i>Polyhedron</i> , 2019, 158, 215-224.	2.2	8
40	Pyrene-box capsules for adaptive encapsulation and structure determination of unstable or non-crystalline guest molecules. <i>CrystEngComm</i> , 2018, 20, 261-270.	2.6	7
41	Structural studies on two new phosphoramides with the same [OC ₄ H ₈ N]P(O) segment by means of single-crystal X-ray diffraction, Hirshfeld surface analysis and 3D energy framework approach. <i>Journal of Molecular Structure</i> , 2021, 1223, 128942.	3.6	6
42	Crystallization-Driven Multicomponent Encapsulation of Coulombically Repulsive Guests. <i>Crystal Growth and Design</i> , 2015, 15, 3525-3531.	3.0	5
43	Molecular dynamics simulations reveal statistics and microscopic mechanisms of water permeation in membrane-embedded artificial water channel nanoconstructs. <i>Journal of Chemical Physics</i> , 2021, 154, 184102.	3.0	5
44	Synergistic Copper/Enamine Catalysis for the Regio-, Stereo-, and Enantioselective Intermolecular 1,2-Addition of Aldehydes to Allenamides. <i>Organic Letters</i> , 2021, 23, 9199-9203.	4.6	5
45	Energy frameworks and Hirshfeld surface analysis of supramolecular features in three new phosphoric triamides: tuning the intermolecular interactions via the substituent effect. <i>Journal of Molecular Structure</i> , 2022, 1259, 132742.	3.6	5
46	Host-Guest Silicalite-1 Zeolites: Correlated Disorder and Phase Transition Inhibition by a Small Guest Modification. <i>Chemistry of Materials</i> , 2022, 34, 366-387.	6.7	5
47	Compression of 1,1'-Diammonio-oligo(ethylene glycol) Chains within the Pyrene Box. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3282-3287.	2.4	4
48	Anomalous Volume Changes in the Siliceous Zeolite Theta-1 TON due to Hydrogen Insertion under High-Pressure, High-Temperature Conditions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5059-5063.	4.6	4
49	Dynamic Kinetic Resolution Processes Based on the Switchable Configurational Instability of Allenyl Copper Reagents. <i>Organic Letters</i> , 2021, 23, 6305-6310.	4.6	4
50	Structural Odd-Even Effect Impacting the Dimensionality of Transport in BTBT-Organic Field Effect Transistors. <i>Advanced Electronic Materials</i> , 0, , 2100265.	5.1	4
51	Coordination versus hydrogen bonds in the structures of different tris(pyridin-2-yl)phosphoric triamide derivatives. <i>RSC Advances</i> , 2021, 11, 8178-8197.	3.6	4
52	Temperature-Dependent Structural Phase Transition in Rubrene Single Crystals: The Missing Piece from the Charge Mobility Puzzle?. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 406-411.	4.6	4
53	Experimental and theoretical study of novel amino-functionalized P(V) coordination compounds suggested as inhibitor of M ^{Pro} of SARS-CoV-2 by molecular docking study. <i>Applied Organometallic Chemistry</i> , 2022, 36, e6636.	3.5	4
54	Calix[4]-box-cages promote the formation of amide bonds in water in the absence of coupling reagents. <i>Chemical Communications</i> , 2018, 54, 9738-9740.	4.1	3

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55	A positive to negative uniaxial thermal expansion crossover in an organic benzothienobenzothiophene structure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 661-673.	1.1	3
56	A Voltage-Responsive Synthetic Cl ⁻ Channel Regulated by pH. <i>Angewandte Chemie</i> , 2020, 132, 19082-19088.	2.0	0
57	Linking triptycene to silole: a fruitful association. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2006-2017.	5.9	3
58	Pentafluorophenylphosphonic Acid as a New Building Block for Molecular Crystal Fabrication. <i>Crystal Growth and Design</i> , 2021, 21, 2028-2045.	3.0	3
59	Prediction of piezoelectric properties by first principles calculations and hydrothermal crystal growth of Si _{1-x} Sn _x O ₂ ±-quartz phase. <i>CrystEngComm</i> , 2018, 20, 7479-7485.	2.6	1
60	Frontispiz: A Voltage-Responsive Synthetic Cl ⁻ Channel Regulated by pH. <i>Angewandte Chemie</i> , 2020, 132, .	2.0	0
61	Frontispiece: A Voltage-Responsive Synthetic Cl ⁻ Channel Regulated by pH. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	13.8	0
62	Insertion of Oxygen and Nitrogen in the Siliceous Zeolite TON at High Pressure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19517-19524.	3.1	0
63	The Unexpected Helical Supramolecular Assembly of a Simple Achiral Acetamide Tecton Generates Selective Water Channels. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	0
64	Unexpected one-pot formation of lactam oximes from amino-hydroxamic esters. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	0
65	The Unexpected Helical Supramolecular Assembly of a Simple Achiral Acetamide Tecton Generates Selective Water Channels. <i>Chemistry - A European Journal</i> , 0, , .	3.3	0