

Veronique Van Speybroeck

List of Publications by Year in descending order

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379
papers

23,124
citations

8755

77
h-index

14779

131
g-index

393
all docs

393
docs citations

393
times ranked

23807
citing authors

#	ARTICLE	IF	CITATIONS
1	A general synthesis of azetidines by copper-catalysed photoinduced anti-Baldwin radical cyclization of ynamides. <i>Nature Communications</i> , 2022, 13, 560.	5.8	32
2	A comparative theoretical study on the solvent dependency of anthocyanin extraction profiles. <i>Journal of Molecular Liquids</i> , 2022, 351, 118606.	2.3	5
3	Mechanistic Characterization of Zeolite-Catalyzed Aromatic Electrophilic Substitution at Realistic Operating Conditions. <i>Jacs Au</i> , 2022, 2, 502-514.	3.6	17
4	Atomistic insight in the flexibility and heat transport properties of the stimuli-responsive metal-organic framework MIL-53(Al) for water-adsorption applications using molecular simulations. <i>Faraday Discussions</i> , 2021, 225, 301-323.	1.6	17
5	Identification of vanadium dopant sites in the metal-organic framework DUT-5(Al). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7088-7100.	1.3	1
6	Correlating MOF-808 parameters with mixed-matrix membrane (MMM) CO ₂ permeation for a more rational MMM development. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12782-12796.	5.2	26
7	Porous organic polymers as metal free heterogeneous organocatalysts. <i>Green Chemistry</i> , 2021, 23, 7361-7434.	4.6	54
8	Access to Biorenewable and CO ₂ -Based Polycarbonates from Exovinylene Cyclic Carbonates. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1714-1728.	3.2	22
9	Unravelling thermal stress due to thermal expansion mismatch in metal-organic frameworks for methane storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4898-4906.	5.2	11
10	Crystals springing into action: metal-organic framework CUK-1 as a pressure-driven molecular spring. <i>Chemical Science</i> , 2021, 12, 5682-5687.	3.7	21
11	Texture Formation in Polycrystalline Thin Films of All-inorganic Lead Halide Perovskite. <i>Advanced Materials</i> , 2021, 33, e2007224.	11.1	18
12	Chlorination of a Zeolitic-Imidazolate Framework Tunes Packing and van der Waals Interaction of Carbon Dioxide for Optimized Adsorptive Separation. <i>Journal of the American Chemical Society</i> , 2021, 143, 4962-4968.	6.6	21
13	Titelbild: Experimental and Theoretical Evidence for the Promotional Effect of Acid Sites on the Diffusion of Alkenes through Small-Pore Zeolites (<i>Angew. Chem.</i> 18/2021). <i>Angewandte Chemie</i> , 2021, 133, 9813-9813.	1.6	1
14	Experimental and Theoretical Evidence for the Promotional Effect of Acid Sites on the Diffusion of Alkenes through Small-Pore Zeolites. <i>Angewandte Chemie</i> , 2021, 133, 10104-10110.	1.6	10
15	Experimental and Theoretical Evidence for the Promotional Effect of Acid Sites on the Diffusion of Alkenes through Small-Pore Zeolites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10016-10022.	7.2	39
16	Overview of Na-Rich Antennae Investigated in Lanthanide-Based Temperature Sensing. <i>Chemistry - A European Journal</i> , 2021, 27, 7214-7230.	1.7	19
17	A Comparative Study on the Photophysical Properties of Anthocyanins and Pyranoanthocyanins. <i>Chemistry - A European Journal</i> , 2021, 27, 5956-5971.	1.7	9
18	Quantifying the Likelihood of Structural Models through a Dynamically Enhanced Powder X-Ray Diffraction Protocol. <i>Angewandte Chemie</i> , 2021, 133, 8995-9004.	1.6	0

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19	Quantifying the Likelihood of Structural Models through a Dynamically Enhanced Powder X-ray Diffraction Protocol. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8913-8922.	7.2	11
20	Coordination and activation of nitrous oxide by iron zeolites. <i>Nature Catalysis</i> , 2021, 4, 332-340.	16.1	49
21	High-rate nanofluidic energy absorption in porous zeolitic frameworks. <i>Nature Materials</i> , 2021, 20, 1015-1023.	13.3	52
22	Frontispiece: Overview of N-rich Antennae Investigated in Lanthanide-Based Temperature Sensing. <i>Chemistry - A European Journal</i> , 2021, 27, .	1.7	0
23	Non-food applications of natural dyes extracted from agro-food residues: A critical review. <i>Journal of Cleaner Production</i> , 2021, 301, 126920.	4.6	40
24	Towards modeling spatiotemporal processes in metal-organic frameworks. <i>Trends in Chemistry</i> , 2021, 3, 605-619.	4.4	31
25	Large-Scale Molecular Dynamics Simulations Reveal New Insights Into the Phase Transition Mechanisms in MIL-53(Al). <i>Frontiers in Chemistry</i> , 2021, 9, 718920.	1.8	15
26	Mobility and Reactivity of Cu ⁺ Species in Cu-CHA Catalysts under NH ₃ -SCR-NO _x Reaction Conditions: Insights from AIMD Simulations. <i>Jacs Au</i> , 2021, 1, 1778-1787.	3.6	27
27	Novel computational tools: general discussion. <i>Faraday Discussions</i> , 2021, 225, 341-357.	1.6	1
28	Dynamic evolution of catalytic active sites within zeolite catalysis. , 2021, , .		0
29	Interfacial study of clathrates confined in reversed silica pores. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21835-21844.	5.2	8
30	Acidity effect on benzene methylation kinetics over substituted H-MeAlPO-5 catalysts. <i>Journal of Catalysis</i> , 2021, 404, 594-606.	3.1	10
31	Elucidation of the pre-nucleation phase directing metal-organic framework formation. <i>Cell Reports Physical Science</i> , 2021, 2, 100680.	2.8	11
32	Brønsted Acid Catalyzed Tandem Defunctionalization of Biorenewable Ferulic acid and Derivates into Bio-catechol (<i>Angew. Chem.</i> 8/2020). <i>Angewandte Chemie</i> , 2020, 132, 3364-3364.	1.6	0
33	The potential of anthocyanins from blueberries as a natural dye for cotton: A combined experimental and theoretical study. <i>Dyes and Pigments</i> , 2020, 176, 108180.	2.0	73
34	Brønsted Acid Catalyzed Tandem Defunctionalization of Biorenewable Ferulic acid and Derivates into Bio-catechol. <i>Angewandte Chemie</i> , 2020, 132, 3087-3092.	1.6	11
35	Brønsted Acid Catalyzed Tandem Defunctionalization of Biorenewable Ferulic acid and Derivates into Bio-catechol. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3063-3068.	7.2	31
36	Structural and Photophysical Properties of Various Polypyridyl Ligands: A Combined Experimental and Computational Study. <i>ChemPhysChem</i> , 2020, 21, 2489-2505.	1.0	5

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37	Mechanistic Insight into the Framework Methylation of H-ZSM-5 for Varying Methanol Loadings and Si/Al Ratios Using First-Principles Molecular Dynamics Simulations. <i>ACS Catalysis</i> , 2020, 10, 8904-8915.	5.5	36
38	Shape-selective C-H activation of aromatics to biaryl compounds using molecular palladium in zeolites. <i>Nature Catalysis</i> , 2020, 3, 1002-1009.	16.1	41
39	Strongly Reducing (Diaryl-amino)benzene-Based Covalent Organic Framework for Metal-Free Visible Light Photocatalytic H ₂ O ₂ Generation. <i>Journal of the American Chemical Society</i> , 2020, 142, 20107-20116.	6.6	239
40	Theoretical and Spectroscopic Evidence of the Dynamic Nature of Copper Active Sites in Cu-CHA Catalysts under Selective Catalytic Reduction (NH ₃ -SCR) Conditions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10060-10066.	2.1	27
41	Insight into the effects of confined hydrocarbon species on the lifetime of methanol conversion catalysts. <i>Nature Materials</i> , 2020, 19, 1081-1087.	13.3	52
42	Structural and Photophysical Properties of Various Polypyridyl Ligands: A Combined Experimental and Computational Study. <i>ChemPhysChem</i> , 2020, 21, 2488-2488.	1.0	0
43	Cation-π Interactions Accelerate the Living Cationic Ring-Opening Polymerization of Unsaturated 2-Alkyl-2-oxazolines. <i>Macromolecules</i> , 2020, 53, 3832-3846.	2.2	4
44	Ni-Rich Porous Polymer with Isolated Tb ³⁺ Ions Displays Unique Temperature Dependent Behavior through the Absence of Thermal Quenching. <i>Chemistry - A European Journal</i> , 2020, 26, 15596-15604.	1.7	4
45	Light Olefin Diffusion during the MTO Process on H-SAPO-34: A Complex Interplay of Molecular Factors. <i>Journal of the American Chemical Society</i> , 2020, 142, 6007-6017.	6.6	92
46	Charting the Metal-Dependent High-Pressure Stability of Bimetallic UiO-66 Materials. , 2020, 2, 438-445.		21
47	Elucidating the promotional effect of a covalent triazine framework in aerobic oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118769.	10.8	17
48	Engineering a Highly Defective Stable UiO-66 with Tunable Lewis- Brønsted Acidity: The Role of the Hemilabile Linker. <i>Journal of the American Chemical Society</i> , 2020, 142, 3174-3183.	6.6	156
49	Ab initio enhanced sampling kinetic study on MTO ethene methylation reaction. <i>Journal of Catalysis</i> , 2020, 388, 38-51.	3.1	24
50	Optical Properties of Isolated and Covalent Organic Framework-Embedded Ruthenium Complexes. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6854-6867.	1.1	7
51	Thermal unequilibrium of strained black CsPb ₃ thin films. <i>Science</i> , 2019, 365, 679-684.	6.0	444
52	Insight into the Role of Water on the Methylation of Hexamethylbenzene in H-SAPO-34 from First Principle Molecular Dynamics Simulations. <i>ChemCatChem</i> , 2019, 11, 3993-4010.	1.8	17
53	Thermal Engineering of Metal-Organic Frameworks for Adsorption Applications: A Molecular Simulation Perspective. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38697-38707.	4.0	56
54	Unraveling the thermodynamic criteria for size-dependent spontaneous phase separation in soft porous crystals. <i>Nature Communications</i> , 2019, 10, 4842.	5.8	47

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55	Dynamic Interplay between Defective UiO-66 and Protic Solvents in Activated Processes. Chemistry - A European Journal, 2019, 25, 15315-15325.	1.7	13
56	A Supramolecular View on the Cooperative Role of Brønsted and Lewis Acid Sites in Zeolites for Methanol Conversion. Journal of the American Chemical Society, 2019, 141, 14823-14842.	6.6	80
57	Unraveling the thermodynamic conditions for negative gas adsorption in soft porous crystals. Communications Physics, 2019, 2, .	2.0	9
58	Ethene Dimerization on Zeolite-Hosted Ni Ions: Reversible Mobilization of the Active Site. ACS Catalysis, 2019, 9, 5645-5650.	5.5	54
59	A Switchable Domino Process for the Construction of Novel CO ₂ -Sourced Sulfur-Containing Building Blocks and Polymers. Angewandte Chemie - International Edition, 2019, 58, 11768-11773.	7.2	26
60	Collective action of water molecules in zeolite dealumination. Catalysis Science and Technology, 2019, 9, 3721-3725.	2.1	43
61	Effect of Zeolite Topology and Reactor Configuration on the Direct Conversion of CO ₂ to Light Olefins and Aromatics. ACS Catalysis, 2019, 9, 6320-6334.	5.5	144
62	Structure-Mechanical Stability Relations of Metal-Organic Frameworks via Machine Learning. Matter, 2019, 1, 219-234.	5.0	170
63	Modeling the Structural and Thermal Properties of Loaded Metal-Organic Frameworks. An Interplay of Quantum and Anharmonic Fluctuations. Journal of Chemical Theory and Computation, 2019, 15, 3237-3249.	2.3	22
64	Electronic properties of heterogenized Ru(^{II}) polypyridyl photoredox complexes on covalent triazine frameworks. Journal of Materials Chemistry A, 2019, 7, 8433-8442.	5.2	6
65	On the importance of anharmonicities and nuclear quantum effects in modelling the structural properties and thermal expansion of MOF-5. Journal of Chemical Physics, 2019, 150, 094503.	1.2	16
66	Active Role of Methanol in Post-Synthetic Linker Exchange in the Metal-Organic Framework UiO-66. Chemistry of Materials, 2019, 31, 1359-1369.	3.2	43
67	Immobilization of Ir(III) complex on covalent triazine frameworks for C-H borylation reactions: A combined experimental and computational study. Journal of Catalysis, 2019, 371, 135-143.	3.1	37
68	Modeling Gas Adsorption in Flexible Metal-Organic Frameworks via Hybrid Monte Carlo/Molecular Dynamics Schemes. Advanced Theory and Simulations, 2019, 2, 1800177.	1.3	40
69	The impact of lattice vibrations on the macroscopic breathing behavior of MIL-53(Al). Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 529-545.	0.4	22
70	Frontiers in Modeling Metal-Organic Frameworks. Advanced Theory and Simulations, 2019, 2, 1900196.	1.3	3
71	Pillared-layered metal-organic frameworks for mechanical energy storage applications. Journal of Materials Chemistry A, 2019, 7, 22663-22674.	5.2	34
72	i-PI 2.0: A universal force engine for advanced molecular simulations. Computer Physics Communications, 2019, 236, 214-223.	3.0	220

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73	Understanding Brønsted-Acid Catalyzed Monomolecular Reactions of Alkanes in Zeolite Pores by Combining Insights from Experiment and Theory. <i>ChemPhysChem</i> , 2018, 19, 338-338.	1.0	0
74	Exploring Lanthanide Doping in UiO-66: A Combined Experimental and Computational Study of the Electronic Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5463-5474.	1.9	51
75	The Importance of Cell Shape Sampling To Accurately Predict Flexibility in Metal-Organic Frameworks. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1186-1197.	2.3	13
76	Extension of the QuickFF force field protocol for an improved accuracy of structural, vibrational, mechanical and thermal properties of metal-organic frameworks. <i>Journal of Computational Chemistry</i> , 2018, 39, 999-1011.	1.5	59
77	On the intrinsic dynamic nature of the rigid UiO-66 metal-organic framework. <i>Chemical Science</i> , 2018, 9, 2723-2732.	3.7	41
78	Formation of Fluorinated Amido Esters through Unexpected C3-C4 Bond Fission in 4-Trifluoromethyl-2-exo-lactams. <i>Chemistry - an Asian Journal</i> , 2018, 13, 421-431.	1.7	4
79	Thermodynamic insight into stimuli-responsive behaviour of soft porous crystals. <i>Nature Communications</i> , 2018, 9, 204.	5.8	104
80	Elucidating the Vibrational Fingerprint of the Flexible Metal-Organic Framework MIL-53(Al) Using a Combined Experimental/Computational Approach. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2734-2746.	1.5	70
81	Theoretical insight into the regioselective ring-expansions of bicyclic aziridinium ions. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 796-806.	1.5	16
82	Use of 3-Hydroxy-4-(trifluoromethyl)azetidin-2-ones as Building Blocks for the Preparation of Trifluoromethyl-Containing Aminopropanes, 1,3-Oxazinan-2-ones, Aziridines, and 1,4-Dioxan-2-ones. <i>Synthesis</i> , 2018, 50, 1439-1456.	1.2	11
83	Influence of a Confined Methanol Solvent on the Reactivity of Active Sites in UiO-66. <i>ChemPhysChem</i> , 2018, 19, 420-429.	1.0	17
84	Understanding Brønsted-Acid Catalyzed Monomolecular Reactions of Alkanes in Zeolite Pores by Combining Insights from Experiment and Theory. <i>ChemPhysChem</i> , 2018, 19, 341-358.	1.0	21
85	Reliably Modeling the Mechanical Stability of Rigid and Flexible Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2018, 51, 138-148.	7.6	88
86	Ab Initio Evaluation of Henry Coefficients Using Importance Sampling. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6359-6369.	2.3	12
87	Tuning the balance between dispersion and entropy to design temperature-responsive flexible metal-organic frameworks. <i>Nature Communications</i> , 2018, 9, 4899.	5.8	90
88	Protocol for Identifying Accurate Collective Variables in Enhanced Molecular Dynamics Simulations for the Description of Structural Transformations in Flexible Metal-Organic Frameworks. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5511-5526.	2.3	19
89	How Chain Length and Branching Influence the Alkene Cracking Reactivity on H-ZSM-5. <i>ACS Catalysis</i> , 2018, 8, 9579-9595.	5.5	70
90	Structure-performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. <i>Nature Chemistry</i> , 2018, 10, 804-812.	6.6	221

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91	Entropy Contributions to Transition State Modeling. , 2018, , 189-228.		5
92	The Remarkable Amphoteric Nature of Defective UiO-66 in Catalytic Reactions. ChemCatChem, 2017, 9, 2203-2210.	1.8	46
93	Design of a thermally controlled sequence of triazolinedione-based click and transclick reactions. Chemical Science, 2017, 8, 3098-3108.	3.7	45
94	Theoretical Analysis of the Influence of Pore Geometry on Monomolecular Cracking and Dehydrogenation of n-Butane in Brønsted Acidic Zeolites. ACS Catalysis, 2017, 7, 2685-2697.	5.5	42
95	Mechanical properties of a gallium fumarate metal-organic framework: a joint experimental-modelling exploration. Journal of Materials Chemistry A, 2017, 5, 11047-11054.	5.2	27
96	Alternating Copolymer of Double Four Ring Silicate and Dimethyl Silicone Monomer-PSS. Chemistry - A European Journal, 2017, 23, 11286-11293.	1.7	5
97	Metal-organic and covalent organic frameworks as single-site catalysts. Chemical Society Reviews, 2017, 46, 3134-3184.	18.7	861
98	Benzene co-reaction with methanol and dimethyl ether over zeolite and zeotype catalysts: Evidence of parallel reaction paths to toluene and diphenylmethane. Journal of Catalysis, 2017, 349, 136-148.	3.1	70
99	Missing Linkers: An Alternative Pathway to UiO-66 Electronic Structure Engineering. Chemistry of Materials, 2017, 29, 3006-3019.	3.2	176
100	Tandem Addition of Phosphite Nucleophiles Across Unsaturated Nitrogen-Containing Systems: Mechanistic Insights on Regioselectivity. Journal of Organic Chemistry, 2017, 82, 188-201.	1.7	6
101	Effect of temperature and branching on the nature and stability of alkene cracking intermediates in H-ZSM-5. Journal of Catalysis, 2017, 345, 53-69.	3.1	92
102	High-Throughput Screening of Extrinsic Point Defect Properties in Si and Ge: Database and Applications. Chemistry of Materials, 2017, 29, 975-984.	3.2	10
103	Reactivity of 3-oxo- β -lactams with Respect to Primary Amines: An Experimental and Computational Approach. Chemistry - A European Journal, 2017, 23, 18002-18009.	1.7	8
104	A series of sulfonic acid functionalized mixed-linker DUT-4 analogues: synthesis, gas sorption properties and catalytic performance. Dalton Transactions, 2017, 46, 14356-14364.	1.6	15
105	Asymmetric Synthesis of 3,4-Disubstituted 2-(Trifluoromethyl)pyrrolidines through Rearrangement of Chiral 2-(2,2,2-Trifluoro-1-hydroxyethyl)azetidines. Journal of Organic Chemistry, 2017, 82, 10092-10109.	1.7	13
106	Hydrogen Transfer versus Methylation: On the Genesis of Aromatics Formation in the Methanol-To-Hydrocarbons Reaction over H-ZSM-5. ACS Catalysis, 2017, 7, 5773-5780.	5.5	102
107	Efficient Construction of Free Energy Profiles of Breathing Metal-Organic Frameworks Using Advanced Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2017, 13, 5861-5873.	2.3	45
108	Methane Adsorption in Zr-Based MOFs: Comparison and Critical Evaluation of Force Fields. Journal of Physical Chemistry C, 2017, 121, 25309-25322.	1.5	34

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109	Nature of active sites on UiO-66 and beneficial influence of water in the catalysis of Fischer esterification. <i>Journal of Catalysis</i> , 2017, 352, 401-414.	3.1	172
110	The Monomer Electron Density Force Field (MEDFF): A Physically Inspired Model for Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 161-179.	2.3	53
111	A Breathing Zirconium Metal-Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. <i>Chemistry - A European Journal</i> , 2016, 22, 3264-3267.	1.7	41
112	Minimal Basis Iterative Stockholder: Atoms in Molecules for Force-Field Development. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3894-3912.	2.3	119
113	Vibrational fingerprint of the absorption properties of UiO-type MOF materials. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	7
114	Towards metal-organic framework based field effect chemical sensors: UiO-66-NH ₂ for nerve agent detection. <i>Chemical Science</i> , 2016, 7, 5827-5832.	3.7	108
115	Cutting the cost of carbon capture: a case for carbon capture and utilization. <i>Faraday Discussions</i> , 2016, 192, 391-414.	1.6	33
116	Is the error on first-principles volume predictions absolute or relative?. <i>Computational Materials Science</i> , 2016, 117, 390-396.	1.4	15
117	Effect of Lewis acids on the stereoregularity of N,N-dimethyl acrylamide: A computational approach. <i>European Polymer Journal</i> , 2016, 83, 67-76.	2.6	3
118	Suppression of the Aromatic Cycle in Methanol-to-Olefins Reaction over ZSM-5 by Post-Synthetic Modification Using Calcium. <i>ChemCatChem</i> , 2016, 8, 3005-3005.	1.8	5
119	Water coordination and dehydration processes in defective UiO-66 type metal organic frameworks. <i>CrystEngComm</i> , 2016, 18, 7056-7069.	1.3	58
120	Suppression of the Aromatic Cycle in Methanol-to-Olefins Reaction over ZSM-5 by Post-Synthetic Modification Using Calcium. <i>ChemCatChem</i> , 2016, 8, 3057-3063.	1.8	71
121	Acidity Constant (pK_a) Calculation of Large Solvated Dye Molecules: Evaluation of Two Advanced Molecular Dynamics Methods. <i>ChemPhysChem</i> , 2016, 17, 3447-3459.	1.0	20
122	Heterogeneous Ru(III) oxidation catalysts via <i>click</i> ™ bidentate ligands on a periodic mesoporous organosilica support. <i>Green Chemistry</i> , 2016, 18, 6035-6045.	4.6	14
123	Thermodynamic Insight in the High-Pressure Behavior of UiO-66: Effect of Linker Defects and Linker Expansion. <i>Chemistry of Materials</i> , 2016, 28, 5721-5732.	3.2	97
124	Exploring the Flexibility of MIL-47(V)-Type Materials Using Force Field Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14934-14947.	1.5	48
125	DMRG-CASPT2 study of the longitudinal static second hyperpolarizability of all-trans polyenes. <i>Journal of Chemical Physics</i> , 2016, 145, 054120.	1.2	58
126	Facile Synthesis of Cooperative Acid-Base Catalysts by Clicking Cysteine and Cysteamine on an Ethylene-Bridged Periodic Mesoporous Organosilica. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2144-2151.	1.0	20

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127	On the stability and nature of adsorbed pentene in Brønsted acid zeolite H-ZSM-5 at 323 K. Journal of Catalysis, 2016, 340, 227-235.	3.1	55
128	Halochromic properties of sulfonphthaleine dyes in a textile environment: The influence of substituents. Dyes and Pigments, 2016, 124, 249-257.	2.0	49
129	Reproducibility in density functional theory calculations of solids. Science, 2016, 351, aad3000.	6.0	1,113
130	Insight into the Effect of Water on the Methanol-to-Olefins Conversion in H-SAPO-34 from Molecular Simulations and in Situ Microspectroscopy. ACS Catalysis, 2016, 6, 1991-2002.	5.5	110
131	Towards molecular control of elementary reactions in zeolite catalysis by advanced molecular simulations mimicking operating conditions. Catalysis Science and Technology, 2016, 6, 2686-2705.	2.1	38
132	Ab initio study of the trapping of polonium on noble metals. Journal of Nuclear Materials, 2016, 472, 35-42.	1.3	6
133	Influence of Solvation and Dynamics on the Mechanism and Kinetics of Nucleophilic Aromatic Substitution Reactions in Liquid Ammonia. Journal of Organic Chemistry, 2016, 81, 1635-1644.	1.7	18
134	Systematic study of the chemical and hydrothermal stability of selected "stable" Metal Organic Frameworks. Microporous and Mesoporous Materials, 2016, 226, 110-116.	2.2	277
135	Ligand Addition Energies and the Stoichiometry of Colloidal Nanocrystals. ACS Nano, 2016, 10, 1462-1474.	7.3	33
136	Mechanical energy storage performance of an aluminum fumarate metal-organic framework. Chemical Science, 2016, 7, 446-450.	3.7	103
137	Normal mode analysis of macromolecular systems with the mobile block Hessian method. , 2015, , .		0
138	Synthesis of poly(2-oxazoline)s with side chain methyl ester functionalities: Detailed understanding of living copolymerization behavior of methyl ester containing monomers with 2-alkyl-2-oxazolines. Journal of Polymer Science Part A, 2015, 53, 2649-2661.	2.5	43
139	Mechanistic Investigation on Oxygen Transfer with the Manganese-Salen Complex. ChemCatChem, 2015, 7, 2711-2719.	1.8	10
140	PPV Polymerization through the Gilch Route: Diradical Character of Monomers. Chemistry - A European Journal, 2015, 21, 19176-19185.	1.7	9
141	A Flexible Photoactive Titanium Metal-Organic Framework Based on a [Ti ^{IV} ₃ ($\frac{1}{4}$ ₃)(O) ₂ (COO) ₆] Cluster. Angewandte Chemie - International Edition, 2015, 54, 13912-13917.	7.2	103
142	How zeolitic acid strength and composition alter the reactivity of alkenes and aromatics towards methanol. Journal of Catalysis, 2015, 328, 186-196.	3.1	49
143	QuickFF: A program for a quick and easy derivation of force fields for metal-organic frameworks from <i>ab initio</i> input. Journal of Computational Chemistry, 2015, 36, 1015-1027.	1.5	132
144	Possibility of [1,5] Sigmatropic Shifts in Bicyclo[4.2.0]octa-2,4-dienes. Journal of Organic Chemistry, 2015, 80, 2609-2620.	1.7	13

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145	Convergence of Atomic Charges with the Size of the Enzymatic Environment. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 564-571.	2.5	17
146	Elucidating the Structural Isomerism of Fluorescent Strigolactone Analogue CISA ⁴ . <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1211-1217.	1.2	3
147	Au@UiO-66: a base free oxidation catalyst. <i>RSC Advances</i> , 2015, 5, 22334-22342.	1.7	59
148	Beyond the Diketopiperazine Family with Alternatively Bridged Brevianamide F Analogues. <i>Journal of Organic Chemistry</i> , 2015, 80, 8046-8054.	1.7	5
149	The enantioselectivity of the manganese-salen complex in the epoxidation of unfunctionalized olefins and the influence of grafting. <i>Journal of Molecular Catalysis A</i> , 2015, 406, 106-113.	4.8	7
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