

Veronique Van Speybroeck

List of Publications by Year in descending order

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papers

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times ranked

21122
citing authors

#	ARTICLE	IF	CITATIONS
1	A general synthesis of azetidines by copper-catalysed photoinduced anti-Baldwin radical cyclization ofynamides. Nature Communications, 2022, 13, 560.	5.8	32
2	A comparative theoretical study on the solvent dependency of anthocyanin extraction profiles. Journal of Molecular Liquids, 2022, 351, 118606.	2.3	5
3	Mechanistic Characterization of Zeolite-Catalyzed Aromatic Electrophilic Substitution at Realistic Operating Conditions. Jacs Au, 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. Faraday Discussions, 2021, 225, 301-323.	1.6	17
5	Identification of vanadium dopant sites in the metal-organic framework DUT-5(Al). Physical Chemistry Chemical Physics, 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. Journal of Materials Chemistry A, 2021, 9, 12782-12796.	5.2	26
7	Porous organic polymers as metal free heterogeneous organocatalysts. Green Chemistry, 2021, 23, 7361-7434.	4.6	54
8	Access to Biorenewable and CO ₂ -Based Polycarbonates from Exovinylene Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2021, 9, 1714-1728.	3.2	22
9	Unravelling thermal stress due to thermal expansion mismatch in metal-organic frameworks for methane storage. Journal of Materials Chemistry A, 2021, 9, 4898-4906.	5.2	11
10	Crystals springing into action: metal-organic framework CUK-1 as a pressure-driven molecular spring. Chemical Science, 2021, 12, 5682-5687.	3.7	21
11	Texture Formation in Polycrystalline Thin Films of All-Inorganic Lead Halide Perovskite. Advanced Materials, 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. Journal of the American Chemical Society, 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 (Angew. Chem. 18/2021). Angewandte Chemie, 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. Angewandte Chemie, 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. Angewandte Chemie - International Edition, 2021, 60, 10016-10022.	7.2	39
16	Overview of Na-Rich Antennae Investigated in Lanthanide-Based Temperature Sensing. Chemistry - A European Journal, 2021, 27, 7214-7230.	1.7	19
17	A Comparative Study on the Photophysical Properties of Anthocyanins and Pyranoanthocyanins. Chemistry - A European Journal, 2021, 27, 5956-5971.	1.7	9
18	Quantifying the Likelihood of Structural Models through a Dynamically Enhanced Powder X-Ray Diffraction Protocol. Angewandte Chemie, 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)(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
150	Carbon capture turned upside down: high-temperature adsorption & low-temperature desorption (HALD). <i>Energy and Environmental Science</i> , 2015, 8, 2480-2491.	15.6	19
151	Advances in theory and their application within the field of zeolite chemistry. <i>Chemical Society Reviews</i> , 2015, 44, 7044-7111.	18.7	405
152	Complex Reaction Environments and Competing Reaction Mechanisms in Zeolite Catalysis: Insights from Advanced Molecular Dynamics. <i>Chemistry - A European Journal</i> , 2015, 21, 9385-9396.	1.7	53
153	A Comparison of Barostats for the Mechanical Characterization of Metal-Organic Frameworks. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5583-5597.	2.3	83
154	Mechanical Properties from Periodic Plane Wave Quantum Mechanical Codes: The Challenge of the Flexible Nanoporous MIL-47(V) Framework. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23752-23766.	1.5	37
155	Determination of the Nature of the Cu Coordination Complexes Formed in the Presence of NO and NH ₃ within SSZ-13. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24393-24403.	1.5	36
156	Semi-analytical mean-field model for predicting breathing in metal-organic frameworks. <i>Molecular Simulation</i> , 2015, 41, 1311-1328.	0.9	21
157	Fine-tuning the theoretically predicted structure of MIL-47(V) with the aid of powder X-ray diffraction. <i>CrystEngComm</i> , 2015, 17, 8612-8622.	1.3	7
158	Mechanistic studies of aldol condensations in UiO-66 and UiO-66-NH ₂ metal organic frameworks. <i>Journal of Catalysis</i> , 2015, 331, 1-12.	3.1	88
159	Shape-Selective Diffusion of Olefins in 8-Ring Solid Acid Microporous Zeolites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23721-23734.	1.5	65
160	Understanding Intrinsic Light Absorption Properties of UiO-66 Frameworks: A Combined Theoretical and Experimental Study. <i>Inorganic Chemistry</i> , 2015, 54, 10701-10710.	1.9	155
161	Binary and ternary Po-containing molecules relevant for LBE cooled reactors at operating temperature. <i>Journal of Nuclear Materials</i> , 2015, 458, 288-295.	1.3	9
162	Active site engineering in UiO-66 type metal-organic frameworks by intentional creation of defects: a theoretical rationalization. <i>CrystEngComm</i> , 2015, 17, 395-406.	1.3	190

#	ARTICLE	IF	CITATIONS
163	Accelerated living cationic ring-opening polymerization of a methyl ester functionalized 2-oxazoline monomer. <i>Polymer Chemistry</i> , 2015, 6, 514-518.	1.9	58
164	Quasi-1D physics in metal-organic frameworks: MIL-47(V) from first principles. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1738-1748.	1.5	23
165	Communication: DMRG-SCF study of the singlet, triplet, and quintet states of oxo-Mn(Salen). <i>Journal of Chemical Physics</i> , 2014, 140, 241103.	1.2	82
166	Solution enthalpy of Po and Te in solid lead-bismuth eutectic. <i>Journal of Nuclear Materials</i> , 2014, 450, 287-291.	1.3	9
167	Exploring the vibrational fingerprint of the electronic excitation energy via molecular dynamics. <i>Journal of Chemical Physics</i> , 2014, 140, 134105.	1.2	5
168	Ab initio based thermal property predictions at a low cost: An error analysis. <i>Physical Review B</i> , 2014, 89, .	1.1	23
169	Substituent effects on absorption spectra of pH indicators: An experimental and computational study of sulfonphthaleine dyes. <i>Dyes and Pigments</i> , 2014, 102, 241-250.	2.0	80
170	Critical Analysis of the Accuracy of Models Predicting or Extracting Liquid Structure Information. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2451-2470.	1.2	5
171	Error Estimates for Solid-State Density-Functional Theory Predictions: An Overview by Means of the Ground-State Elemental Crystals. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014, 39, 1-24.	6.8	404
172	Tetravalent Doping of CeO_2 : The Impact of Valence Electron Character on Group IV Dopant Influence. <i>Journal of the American Ceramic Society</i> , 2014, 97, 258-266.	1.9	36
173	Vanadium metal-organic frameworks: structures and applications. <i>New Journal of Chemistry</i> , 2014, 38, 1853-1867.	1.4	57
174	Automated generation of radical species in crystalline carbohydrate using ab initio MD simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17196-17205.	1.3	4
175	Determining the storage, availability and reactivity of NH_3 within Cu-Chabazite-based Ammonia Selective Catalytic Reduction systems. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1639-1650.	1.3	181
176	Aliovalent doping of CeO_2 : DFT study of oxidation state and vacancy effects. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13723-13737.	5.2	93
177	Flexibility versus rigidity: what determines the stability of zeolite frameworks? A case study. <i>Materials Horizons</i> , 2014, 1, 582-587.	6.4	13
178	Catalytic Performance of Vanadium MIL-47 and Linker-Substituted Variants in the Oxidation of Cyclohexene: A Combined Theoretical and Experimental Approach. <i>ChemPlusChem</i> , 2014, 79, 1183-1197.	1.3	20
179	First principle chemical kinetics in zeolites: the methanol-to-olefin process as a case study. <i>Chemical Society Reviews</i> , 2014, 43, 7326-7357.	18.7	188
180	Triazolinediones enable ultrafast and reversible click chemistry for the design of dynamic polymer systems. <i>Nature Chemistry</i> , 2014, 6, 815-821.	6.6	285

#	ARTICLE	IF	CITATIONS
181	Base catalytic activity of alkaline earth MOFs: a (micro)spectroscopic study of active site formation by the controlled transformation of structural anions. <i>Chemical Science</i> , 2014, 5, 4517-4524.	3.7	58
182	Metal-dioxidoterephthalate MOFs of the MOF-74 type: Microporous basic catalysts with well-defined active sites. <i>Journal of Catalysis</i> , 2014, 317, 1-10.	3.1	138
183	Metal-organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). <i>Chemical Communications</i> , 2014, 50, 9462-9464.	2.2	122
184	Insight into the Formation and Reactivity of Framework-Bound Methoxide Species in H ₂ ZSM-5 from Static and Dynamic Molecular Simulations. <i>ChemCatChem</i> , 2014, 6, 1906-1918.	1.8	69
185	Reactivity of CO on Carbon-Covered Cobalt Surfaces in Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5317-5327.	1.5	42
186	Cationic Ring-Opening Polymerization of 2-Propyl-2-oxazolines: Understanding Structural Effects on Polymerization Behavior Based on Molecular Modeling. <i>ACS Macro Letters</i> , 2013, 2, 651-654.	2.3	26
187	Covalent immobilization of the Jacobsen catalyst on mesoporous phenolic polymer: A highly enantioselective and stable asymmetric epoxidation catalyst. <i>Materials Chemistry and Physics</i> , 2013, 141, 967-972.	2.0	19
188	Synthesis Modulation as a Tool To Increase the Catalytic Activity of Metal-Organic Frameworks: The Unique Case of UiO-66(Zr). <i>Journal of the American Chemical Society</i> , 2013, 135, 11465-11468.	6.6	871
189	Ranking the Stars: A Refined Pareto Approach to Computational Materials Design. <i>Physical Review Letters</i> , 2013, 111, 075501.	2.9	23
190	trans effect and trans influence: importance of metal mediated ligand-ligand repulsion. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17354.	1.3	57
191	Molecular Dynamics Kinetic Study on the Zeolite-Catalyzed Benzene Methylation in ZSM-5. <i>ACS Catalysis</i> , 2013, 3, 2556-2567.	5.5	91
192	Insight in the activity and diastereoselectivity of various Lewis acid catalysts for the citronellal cyclization. <i>Journal of Catalysis</i> , 2013, 305, 118-129.	3.1	51
193	Crystal structure prediction for supersaturated AZO: the case of Zn ₃ Al ₂ O ₆ . <i>CrystEngComm</i> , 2013, 15, 10440.	1.3	3
194	New Functionalized Metal-Organic Frameworks MIL-47-X (X = Cl, Br, CH ₃), Their Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22784-22796.	1.5	79
195	Mn-salen@MIL101(Al): a heterogeneous, enantioselective catalyst synthesized using a "bottle around the ship" approach. <i>Chemical Communications</i> , 2013, 49, 8021.	2.2	70
196	New V ^{IV} -Based Metal-Organic Framework Having Framework Flexibility and High CO ₂ Adsorption Capacity. <i>Inorganic Chemistry</i> , 2013, 52, 113-120.	1.9	68
197	Mechanistic Studies on Chabazite-Type Methanol-to-Olefin Catalysts: Insights from Time-Resolved UV/Vis Microspectroscopy Combined with Theoretical Simulations. <i>ChemCatChem</i> , 2013, 5, 173-184.	1.8	70
198	Enthalpy and Entropy Barriers Explain the Effects of Topology on the Kinetics of Zeolite-Catalyzed Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 11568-11576.	1.7	63

#	ARTICLE	IF	CITATIONS
199	Origins of the solvent effect on the propagation kinetics of acrylic acid and methacrylic acid. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2024-2034.	2.5	23
200	ACKS2: Atom-condensed Kohn-Sham DFT approximated to second order. <i>Journal of Chemical Physics</i> , 2013, 138, 074108.	1.2	84
201	Polycaprolactone and polycaprolactone/chitosan nanofibres functionalised with the pH-sensitive dye Nitrazine Yellow. <i>Carbohydrate Polymers</i> , 2013, 91, 284-293.	5.1	95
202	Synthesis of 2-hydroxy-1,4-oxazin-3-ones through Ring Transformation of 3-hydroxy-4-(1,2-dihydroxyethyl)- β -lactams and a Study of Their Reactivity. <i>Chemistry - A European Journal</i> , 2013, 19, 3383-3396.		20
203	Diphosphonylation of Aromatic Diazaheterocycles and Theoretical Rationalization of Product Yields. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 1058-1067.	1.2	21
204	Ti-functionalized NH ₂ -MIL-47: An effective and stable epoxidation catalyst. <i>Catalysis Today</i> , 2013, 208, 97-105.	2.2	31
205	Hirshfeld-E Partitioning: AIM Charges with an Improved Trade-off between Robustness and Accurate Electrostatics. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2221-2225.	2.3	77
206	Bipyridine-Based Nanosized Metal-Organic Framework with Tunable Luminescence by a Postmodification with Eu(III): An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11302-11310.	1.5	85
207	On the Thermodynamics of Framework Breathing: A Free Energy Model for Gas Adsorption in MIL-53. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11540-11554.	1.5	61
208	Quantification of silanol sites for the most common mesoporous ordered silicas and organosilicas: total versus accessible silanols. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 642-650.	1.3	110
209	Unraveling the Reaction Mechanisms Governing Methanol-to-Olefins Catalysis by Theory and Experiment. <i>ChemPhysChem</i> , 2013, 14, 1526-1545.	1.0	232
210	Complete low-barrier side-chain route for olefin formation during methanol conversion in H-SAPO-34. <i>Journal of Catalysis</i> , 2013, 305, 76-80.	3.1	102
211	Accurate prediction of ¹ H chemical shifts in interstrand cross-linked DNA. <i>RSC Advances</i> , 2013, 3, 3925.	1.7	12
212	Identification of Intermediates in Zeolite-Catalyzed Reactions by In Situ UV/Vis Microspectroscopy and a Complementary Set of Molecular Simulations. <i>Chemistry - A European Journal</i> , 2013, 19, 16595-16606.	1.7	68
213	Bimetallic-Organic Framework as a Zero-Leaching Catalyst in the Aerobic Oxidation of Cyclohexene. <i>ChemCatChem</i> , 2013, 5, 3657-3664.	1.8	38
214	Analysis of the basis set superposition error in molecular dynamics of hydrogen-bonded liquids: Application to methanol. <i>Journal of Chemical Physics</i> , 2012, 137, 104506.	1.2	4
215	Computation of Charge Distribution and Electrostatic Potential in Silicates with the Use of Chemical Potential Equalization Models. <i>Journal of Physical Chemistry C</i> , 2012, 116, 490-504.	1.5	47
216	Synthesis, characterization and sorption properties of NH ₂ -MIL-47. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15562.	1.3	27

#	ARTICLE	IF	CITATIONS
217	Solvent-Controlled Selective Transformation of 2-Bromomethyl-2-methylaziridines to Functionalized Aziridines and Azetidines. <i>Journal of Organic Chemistry</i> , 2012, 77, 3181-3190.	1.7	26
218	Diastereoselective Aldol Reaction of Zincated 3-Chloro-3-methyl-1-azaallylic Anions as Key Step in the Synthesis of 1,2,3,4-Tetrasubstituted 3-Chloroazetidines. <i>Journal of Organic Chemistry</i> , 2012, 77, 3415-3425.	1.7	14
219	Entropy-Driven Chemisorption of NO _x on Phosphotungstic Acid. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11010-11013.	7.2	4
220	Mechanistic insight into the cyclohexene epoxidation with VO(acac) ₂ and tert-butyl hydroperoxide. <i>Journal of Catalysis</i> , 2012, 294, 1-18.	3.1	40
221	Efficient Approach for the Computational Study of Alcohol and Nitrile Adsorption in H-ZSM-5. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5499-5508.	1.5	77
222	Assessment of Atomic Charge Models for Gas-Phase Computations on Polypeptides. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 661-676.	2.3	66
223	Free radical polymerization of ethyl methacrylate and ethyl \hat{L} -hydroxy methacrylate: A computational approach to the propagation kinetics. <i>Polymer</i> , 2012, 53, 3211-3219.	1.8	18
224	Tuning of CeO ₂ buffer layers for coated superconductors through doping. <i>Applied Surface Science</i> , 2012, 260, 32-35.	3.1	29
225	Methylation of benzene by methanol: Single-site kinetics over H-ZSM-5 and H-beta zeolite catalysts. <i>Journal of Catalysis</i> , 2012, 292, 201-212.	3.1	126
226	Solvent-Catalyzed Ring-Chain-Ring Tautomerization in Axially Chiral Compounds. <i>Chemistry - A European Journal</i> , 2012, 18, 12725-12732.	1.7	14
227	Design of zeolite by inverse sigma transformation. <i>Nature Materials</i> , 2012, 11, 1059-1064.	13.3	161
228	Ab Initio Parametrized Force Field for the Flexible Metal-Organic Framework MIL-53(Al). <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3217-3231.	2.3	69
229	The conformational sensitivity of iterative stockholder partitioning schemes. <i>Chemical Physics Letters</i> , 2012, 545, 138-143.	1.2	35
230	Accurate spin-orbit and spin-other-orbit contributions to the g-tensor for transition metal containing systems. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10690.	1.3	20
231	Synthesis, Structural Characterization, and Catalytic Performance of a Vanadium-Based Metal-Organic Framework (COMOC-3). <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2819-2827.	1.0	47
232	Electronic Effects of Linker Substitution on Lewis Acid Catalysis with Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4887-4890.	7.2	384
233	Investigating the Halochromic Properties of Azo Dyes in an Aqueous Environment by Using a Combined Experimental and Theoretical Approach. <i>Chemistry - A European Journal</i> , 2012, 18, 8120-8129.	1.7	41
234	Regioselectivity in the ring opening of non-activated aziridines. <i>Chemical Society Reviews</i> , 2012, 41, 643-665.	18.7	401

#	ARTICLE	IF	CITATIONS
235	Host-guest and guest-guest interactions between xylene isomers confined in the MIL-47(V) pore system. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	23
236	The influence of a polyamide matrix on the halochromic behaviour of the pH-sensitive azo dye Nitrazine Yellow. <i>Dyes and Pigments</i> , 2012, 94, 443-451.	2.0	53
237	The coordinatively saturated vanadium MIL-47 as a low leaching heterogeneous catalyst in the oxidation of cyclohexene. <i>Journal of Catalysis</i> , 2012, 285, 196-207.	3.1	100
238	Atomic Velocity Projection Method: A New Analysis Method for Vibrational Spectra in Terms of Internal Coordinates for a Better Understanding of Zeolite Nanogrowth. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1045-1061.	2.3	10
239	CeO_2	1.1	43
240	O_2 Si NMR and UV-Vis Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Sol-Gel Chemistry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3562-3571.	1.5	72
241	The Significance of Parameters in Charge Equilibration Models. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1750-1764.	2.3	42
242	First Principle Kinetic Studies of Zeolite-Catalyzed Methylation Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 888-899.	6.6	153
243	Synthesis of 3-Methoxyazetidines via an Aziridine to Azetidine Rearrangement and Theoretical Rationalization of the Reaction Mechanism. <i>Journal of Organic Chemistry</i> , 2011, 76, 2157-2167.	1.7	42
244	Electronic structure and band gap of zinc spinel oxides beyond LDA: ZnAl_2O_4 , ZnGa_2O_4 and ZnIn_2O_4 . <i>New Journal of Physics</i> , 2011, 13, 063002.	1.2	105
245	Normal Mode Analysis in Zeolites: Toward an Efficient Calculation of Adsorption Entropies. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1090-1101.	2.3	94
246	UV-Raman and ^{29}Si NMR Spectroscopy Investigation of the Nature of Silicate Oligomers Formed by Acid Catalyzed Hydrolysis and Polycondensation of Tetramethylorthosilicate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11077-11088.	1.5	33
247	Assessment of Periodic and Cluster-in-Vacuo Models for First Principles Calculation of EPR Parameters of Paramagnetic Defects in Crystals: Rh^{2+} Defects in NaCl as Case Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1721-1733.	1.1	11
248	Crystal structure prediction for iron as inner core material in heavy terrestrial planets. <i>Earth and Planetary Science Letters</i> , 2011, 312, 237-242.	1.8	32
249	Stereoselective Synthesis of <i>cis</i> -3,4-Disubstituted Piperidines through Ring Transformation of 2-(2-Mesyloxyethyl)azetidines. <i>Journal of Organic Chemistry</i> , 2011, 76, 8364-8375.	1.7	33
250	Reactivity of Activated versus Nonactivated 2-(Bromomethyl)aziridines with respect to Sodium Methoxide: A Combined Computational and Experimental Study. <i>Journal of Organic Chemistry</i> , 2011, 76, 8698-8709.	1.7	17
251	Controlling the tacticity in the polymerization of N-isopropylacrylamide: A computational study. <i>Polymer</i> , 2011, 52, 5503-5512.	1.8	20
252	Experimental and theoretical IR study of methanol and ethanol conversion over H-SAPO-34. <i>Catalysis Today</i> , 2011, 177, 12-24.	2.2	41

#	ARTICLE	IF	CITATIONS
253	Full Theoretical Cycle for both Ethene and Propene Formation during Methanolâ€”Olefin Conversion in Hâ€”ZSMâ€”5. <i>ChemCatChem</i> , 2011, 3, 208-212.	1.8	116
254	Efficient Calculation of QM/MM Frequencies with the Mobile Block Hessian. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 496-514.	2.3	32
255	Validation of DFT-Based Methods for Predicting Qualitative Thermochemistry of Large Polyaromatics. <i>ChemPhysChem</i> , 2011, 12, 1100-1108.	1.0	8
256	Scope and Mechanism of the (4+3) Cycloaddition Reaction of Furfuryl Cations. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11990-11993.	7.2	65
257	Furanâ€”Oxidationâ€”Triggered Inducible DNA Crossâ€”Linking: Acyclic Versus Cyclic Furanâ€”Containing Building Blocksâ€”On the Benefit of Restoring the Cyclic Sugar Backbone. <i>Chemistry - A European Journal</i> , 2011, 17, 6940-6953.	1.7	25
258	Competitive Reactions of Organophosphorus Radicals on Coke Surfaces. <i>Chemistry - A European Journal</i> , 2011, 17, 12027-12036.	1.7	23
259	Theoretical Simulations Elucidate the Role of Naphthalenic Species during Methanol Conversion within Hâ€”SAPOâ€”34. <i>Chemistry - A European Journal</i> , 2011, 17, 9083-9093.	1.7	36
260	Catalytic and molecular separation properties of Zeogrids and Zeotiles. <i>Catalysis Today</i> , 2011, 168, 17-27.	2.2	15
261	Assessment of a low-cost protocol for an <i>ab initio</i> -based prediction of the mixing enthalpy at elevated temperatures: The Fe-Mo system. <i>Physical Review B</i> , 2011, 83, .	1.1	23
262	Comparative study of various normal mode analysis techniques based on partial Hessians. <i>Journal of Computational Chemistry</i> , 2010, 31, 994-1007.	1.5	43
263	TAMkin: A Versatile Package for Vibrational Analysis and Chemical Kinetics. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 1736-1750.	2.5	155
264	The remarkable catalytic activity of the saturated metal organic framework V-MIL-47 in the cyclohexene oxidation. <i>Chemical Communications</i> , 2010, 46, 5085.	2.2	109
265	Modeling the Solvent Effect on the Tacticity in the Free Radical Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2010, 43, 5602-5610.	2.2	38
266	Assembly of cyclic hydrocarbons from ethene and propene in acid zeolite catalysis to produce active catalytic sites for MTO conversion. <i>Journal of Catalysis</i> , 2010, 271, 67-78.	3.1	86
267	Systematic Study of Halideâ€”Induced Ring Opening of 2â€”Substituted Aziridinium Salts and Theoretical Rationalization of the Reaction Pathways. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4920-4931.	1.2	63
268	Opposite Regiospecific Ring Opening of 2-(Cyanomethyl)aziridines by Hydrogen Bromide and Benzyl Bromide: Experimental Study and Theoretical Rationalization. <i>Journal of Organic Chemistry</i> , 2010, 75, 4530-4541.	1.7	56
269	A coordinative saturated vanadium containing metal organic framework that shows a remarkable catalytic activity. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 329-332.	1.5	9
270	Influence of Protein Environment on the Electron Paramagnetic Resonance Properties of Flavoprotein Radicals: A QM/MM Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16655-16665.	1.2	20

#	ARTICLE	IF	CITATIONS
271	Conformational Sampling of Macrocyclic Alkenes Using a Kennard's Stone-Based Algorithm. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6879-6887.	1.1	17
272	Intramolecular π - π Stacking Interactions in 2-Substituted N,N-Dibenzylaziridinium Ions and Their Regioselectivity in Nucleophilic Ring-Opening Reactions. <i>Journal of Organic Chemistry</i> , 2010, 75, 885-896.	1.7	66
273	Bond Dissociation Energies of Organophosphorus Compounds: an Assessment of Contemporary Ab Initio Procedures. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2864-2873.	1.1	35
274	Kinetic and Mechanistic Study on p-Quinodimethane Formation in the Sulfinyl Precursor Route for the Polymerization of Poly(p-phenylenevinylene) (PPV). <i>Macromolecules</i> , 2010, 43, 7424-7433.	2.2	26
275	Solvent Effects on Free Radical Polymerization Reactions: The Influence of Water on the Propagation Rate of Acrylamide and Methacrylamide. <i>Macromolecules</i> , 2010, 43, 827-836.	2.2	50
276	The calculation of thermodynamic properties of molecules. <i>Chemical Society Reviews</i> , 2010, 39, 1764.	18.7	96
277	Experimental and computational study of the ring opening of tricyclic oxanorbornenes to polyhydro isoindole phosphonates. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3644.	1.5	14
278	Normal modes for large molecules with arbitrary link constraints in the mobile block Hessian approach. <i>Journal of Chemical Physics</i> , 2009, 130, 084107.	1.2	22
279	Insight into the Solvation and Isomerization of 3-Halo-1-azaallylic Anions from Ab Initio Metadynamics Calculations and NMR Experiments. <i>Chemistry - A European Journal</i> , 2009, 15, 580-584.	1.7	10
280	Theoretical Insights on Methylbenzene Side-Chain Growth in ZSM-5 Zeolites for Methanol-to-Olefin Conversion. <i>Chemistry - A European Journal</i> , 2009, 15, 10803-10808.	1.7	131
281	Multi-level Modeling of Silica-Template Interactions During Initial Stages of Zeolite Synthesis. <i>Topics in Catalysis</i> , 2009, 52, 1261-1271.	1.3	31
282	The Effect of Confined Space on the Growth of Naphthalenic Species in a Chabazite-Type Catalyst: A Molecular Modeling Study. <i>ChemCatChem</i> , 2009, 1, 373-378.	1.8	45
283	Theoretical Study on the Structural Properties of Various Solvated Metalated 3-Halo-1-azaallylic Anions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6375-6380.	1.1	9
284	Reversibility from DFT-Based Reactivity Indices: Intramolecular Side Reactions in the Polymerization of Poly(vinyl chloride). <i>Journal of Physical Chemistry A</i> , 2009, 113, 7899-7908.	1.1	11
285	DFT Study on the Propagation Kinetics of Free-Radical Polymerization of β -Substituted Acrylates. <i>Macromolecules</i> , 2009, 42, 3033-3041.	2.2	72
286	Mobile Block Hessian Approach with Adjoined Blocks: An Efficient Approach for the Calculation of Frequencies in Macromolecules. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1203-1215.	2.3	30
287	Levofloxacin ozonation in water: Rate determining process parameters and reaction pathway elucidation. <i>Chemosphere</i> , 2009, 76, 683-689.	4.2	109
288	The electronegativity equalization method and the split charge equilibration applied to organic systems: Parametrization, validation, and comparison. <i>Journal of Chemical Physics</i> , 2009, 131, 044127.	1.2	82

#	ARTICLE	IF	CITATIONS
289	Theoretical evaluation of zeolite confinement effects on the reactivity of bulky intermediates. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5222.	1.3	59
290	Nucleophile-dependent regioselective ring opening of 2-substituted N,N-dibenzylaziridinium ions: bromide versus hydride. <i>Chemical Communications</i> , 2009, , 2508.	2.2	37
291	Carbon-Centered Radical Addition and C-Scission Reactions: Modeling of Activation Energies and Pre-exponential Factors. <i>ChemPhysChem</i> , 2008, 9, 124-140.	1.0	87
292	A DFT-Based Investigation of Hydrogen Abstraction Reactions from Methylated Polycyclic Aromatic Hydrocarbons. <i>ChemPhysChem</i> , 2008, 9, 2349-2358.	1.0	27
293	A Complete Catalytic Cycle for Supramolecular Methanol-to-Olefins Conversion by Linking Theory with Experiment. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5179-5182.	7.2	240
294	Synthesis of Tricyclic Phosphonopyrrolidines via IMDAF: Experimental and Theoretical Investigation of the Observed Stereoselectivity. <i>Journal of Organic Chemistry</i> , 2008, 73, 7921-7927.	1.7	12
295	Recent theoretical insights into the role of the zeolite framework on methanol-to-olefin conversion. <i>Studies in Surface Science and Catalysis</i> , 2008, , 741-744.	1.5	1
296	MD-TRACKS: A Productive Solution for the Advanced Analysis of Molecular Dynamics and Monte Carlo simulations. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 2414-2424.	2.5	21
297	Experimental and Computational Study of the Conrotatory Ring Opening of Various 3-Chloro-2-azetines. <i>Journal of Organic Chemistry</i> , 2008, 73, 5481-5488.	1.7	38
298	An Intrinsic Radical Stability Scale from the Perspective of Bond Dissociation Enthalpies: A Companion to Radical Electrophilicities. <i>Journal of Organic Chemistry</i> , 2008, 73, 9109-9120.	1.7	50
299	MFI Fingerprint: How Pentasil-Induced IR Bands Shift during Zeolite Nanogrowth. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9186-9191.	1.5	59
300	Using elementary reactions to model growth processes of polyaromatic hydrocarbons under pyrolysis conditions of light feedstocks. <i>Molecular Simulation</i> , 2008, 34, 193-199.	0.9	11
301	Temperature Study of a Glycine Radical in the Solid State Adopting a DFT Periodic Approach: Vibrational Analysis and Comparison with EPR Experiments. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7618-7630.	1.2	15
302	ZEOBUILDER: A GUI Toolkit for the Construction of Complex Molecular Structures on the Nanoscale with Building Blocks. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 1530-1541.	2.5	48
303	Calculating Reaction Rates with Partial Hessians: Validation of the Mobile Block Hessian Approach. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 614-625.	2.3	35
304	Molecular Environment and Temperature Dependence of Hyperfine Interactions in Sugar Crystal Radicals from First Principles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1508-1514.	1.2	9
305	Bond Dissociation Enthalpies of Large Aromatic Carbon-Centered Radicals. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13566-13573.	1.1	35
306	Evidence for a Grotthuss-Like Mechanism in the Formation of the Rhamnose Alkoxy Radical Based on Periodic DFT Calculations. <i>Radiation Research</i> , 2008, 169, 8-18.	0.7	18

#	ARTICLE	IF	CITATIONS
307	Vibrational modes in partially optimized molecular systems. <i>Journal of Chemical Physics</i> , 2007, 126, 224102.	1.2	95
308	Refinement of the supramolecular concept in methanol-to-olefin catalysis. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1668-1676.	1.5	5
309	Density Functional Theory Study of Free-Radical Polymerization of Acrylates and Methacrylates: A Structure-Reactivity Relationship. <i>Macromolecules</i> , 2007, 40, 9590-9602.	2.2	40
310	The Rise and Fall of Direct Mechanisms in Methanol-to-Olefin Catalysis: An Overview of Theoretical Contributions. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8832-8838.	1.8	95
311	Spin-Polarized Conceptual Density Functional Theory Study of the Regioselectivity in Ring Closures of Radicals. <i>Journal of Organic Chemistry</i> , 2007, 72, 348-356.	1.7	36
312	Modeling elementary reactions in coke formation from first principles. <i>Molecular Simulation</i> , 2007, 33, 879-887.	0.9	32
313	Theoretical Study of the Thermodynamics and Kinetics of Hydrogen Abstractions from Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11771-11786.	1.1	134
314	Ab Initio Study of Free-Radical Polymerization: Defect Structures in Poly(vinyl chloride). <i>Macromolecules</i> , 2007, 40, 1321-1331.	2.2	47
315	Four-Membered Heterocycles with a Carbon-Heteroatom Exocyclic Double Bond at the 3-Position: Puckering Potential and Thermodynamic Properties. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2797-2803.	1.1	22
316	Ab Initio Thermochemistry and Kinetics for Carbon-Centered Radical Addition and β -Scission Reactions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8416-8428.	1.1	67
317	Novel Synthesis of 3,4-Diaminobutanenitriles and 4-Amino-2-butenenitriles from 2-(Cyanomethyl)aziridines through Intermediate Aziridinium Salts: An Experimental and Theoretical Approach. <i>Journal of Organic Chemistry</i> , 2007, 72, 4733-4740.	1.7	30
318	Global DFT-Based Reactivity Indicators: An Assessment of Theoretical Procedures in Zeolite Catalysis. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3028-3037.	1.5	14
319	The Gradient Curves Method: An Improved Strategy for the Derivation of Molecular Mechanics Valence Force Fields from ab Initio Data. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1420-1434.	2.3	19
320	Zeolite Shape-Selectivity in the gem-Methylation of Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1311-1314.	7.2	154
321	Ab Initio Study of Poly(vinyl chloride) Propagation Kinetics: Head-to-Head versus Head-to-Tail Additions. <i>ChemPhysChem</i> , 2007, 8, 541-552.	1.0	26
322	How useful are reactivity indicators for the description of hydrogen abstraction reactions on polycyclic aromatic hydrocarbons?. <i>Chemical Physics Letters</i> , 2007, 444, 17-22.	1.2	12
323	Electrophilicity and Nucleophilicity Index for Radicals. <i>Organic Letters</i> , 2007, 9, 2721-2724.	2.4	396
324	An extended hindered-rotor model with incorporation of Coriolis and vibrational-rotational coupling for calculating partition functions and derived quantities. <i>Journal of Chemical Physics</i> , 2006, 124, 044314.	1.2	86

#	ARTICLE	IF	CITATIONS
325	Thermochemistry and Kinetics of Hydrogen Abstraction by Methyl Radical from Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13624-13631.	1.1	41
326	Regio- and stereospecific ring opening of 1,1-dialkyl-2-(aryloxymethyl)aziridinium salts by bromide. <i>Chemical Communications</i> , 2006, , 1554.	2.2	55
327	X (X = O, S, Se) Ions in Alkali Halide Lattices through Density Functional Calculations. 2. Interstitial Defect Models. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8213-8218.	1.2	4
328	Study of Rhamnose Radicals in the Solid State Adopting a Density Functional Theory Cluster Approach. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6504-6513.	1.1	19
329	Unexpected Four-Membered over Six-Membered Ring Formation during the Synthesis of Azaheterocyclic Phosphonates: Experimental and Theoretical Evaluation. <i>Journal of the American Chemical Society</i> , 2006, 128, 8468-8478.	6.6	37
330	Applicability of the Hindered Rotor Scheme to the Puckering Mode in Four-Membered Rings. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3838-3844.	1.1	25
331	X (X = O, S) Ions in Alkali Halide Lattices through Density Functional Calculations. 1. Substitutional Defect Models. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8204-8212.	1.2	5
332	First-principles calculations of hyperfine parameters with the Gaussian and augmented-plane-wave method: Application to radicals embedded in a crystalline environment. <i>Physical Review B</i> , 2006, 74, .	1.1	42
333	What role do oxonium ions and oxonium ylides play in the ZSM-5 catalysed methanol-to-olefin process?. <i>Chemical Physics Letters</i> , 2006, 417, 309-315.	1.2	94
334	Bifunctional acid-base catalyzed reactions in zeolites from the HSAB viewpoint. <i>Chemical Physics Letters</i> , 2006, 419, 10-15.	1.2	17
335	The Rh ligand bond: RhX (X=C, N, O, F, P and Cl) molecules. <i>Chemical Physics Letters</i> , 2006, 421, 281-286.	1.2	20
336	Ab initio calculation of entropy and heat capacity of gas-phase n-alkanes with hetero-elements O and S: Ethers/alcohols and sulfides/thiols. <i>Chemical Physics</i> , 2006, 328, 251-258.	0.9	25
337	Radiation-induced radicals in β -D-glucose: Comparing DFT cluster calculations with magnetic resonance experiments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 795-801.	2.0	21
338	Theoretical study on the alteration of fundamental zeolite properties by methylene functionalization. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 350-356.	2.2	21
339	An Assessment of Theoretical Procedures for Predicting the Thermochemistry and Kinetics of Hydrogen Abstraction by Methyl Radical from Benzene. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8942-8951.	1.1	70
340	Understanding the Failure of Direct C-C Coupling in the Zeolite-Catalyzed Methanol-to-Olefin Process. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1714-1719.	7.2	220
341	Ab Initio Group Contribution Method for Activation Energies of Hydrogen Abstraction Reactions. <i>ChemPhysChem</i> , 2006, 7, 188-199.	1.0	66
342	Ab Initio Study of Free-Radical Polymerization: Polyethylene Propagation Kinetics. <i>ChemPhysChem</i> , 2006, 7, 131-140.	1.0	60

#	ARTICLE	IF	CITATIONS
343	Hydrocarbon Bond Dissociation Enthalpies: From Substituted Aromatics to Large Polyaromatics. <i>ChemPhysChem</i> , 2006, 7, 2205-2214.	1.0	45
344	Reaction of Electrophilic Allyl Halides with Amines: A Reinvestigation. <i>Synthesis</i> , 2006, 2006, 2260-2264.	1.2	1
345	First-principles calculation of the EPR tensor in extended periodic systems. <i>Physical Review B</i> , 2006, 73, .	1.1	18
346	How should we calculate multi-dimensional potential energy surfaces for an accurate reproduction of partition functions?. <i>Chemical Physics</i> , 2005, 314, 109-117.	0.9	22
347	Why does the uncoupled hindered rotor model work well for the thermodynamics of n-alkanes?. <i>Chemical Physics Letters</i> , 2005, 402, 479-484.	1.2	84
348	Group Additive Values for the Gas Phase Standard Enthalpy of Formation of Hydrocarbons and Hydrocarbon Radicals. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7466-7480.	1.1	127
349	Ab Initio Study of Free-Radical Polymerizations: Cost-Effective Methods to Determine the Reaction Rates. <i>ChemPhysChem</i> , 2005, 6, 180-189.	1.0	45
350	Study of radical defects in crystalline lattices from first-principles molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 761-769.	1.0	4
351	Comparative study of kinetics and reactivity indices of free radical polymerization reactions. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 454-460.	1.0	16
352	Ab initio EPR study of S ²³ and Se ²³ defects in alkali halides. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 409-414.	1.0	4
353	Level of theory study of magnetic resonance parameters of chalcogen XY ²³ (X, Y = O, S and Se) defects in alkali halides. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 240-249.	1.3	7
354	Rules for Generating Conformers and Their Relative Energies in n-Alkanes with a Heteroelement O or S: Ethers and Alcohols, or Sulfides and Thiols. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9617-9626.	1.1	12
355	DFT Investigation of Alkoxide vs Alkylammonium Formation in Amine-Substituted Zeolites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7952-7960.	1.2	26
356	N-Alkenyl-2-aziridinylmethyl Radicals and N-Alkenylaminy Radicals in Cascade Cyclizations to Pyrrolizidines and Indolizidines. <i>Journal of Organic Chemistry</i> , 2005, 70, 3674-3681.	1.7	16
357	Reactivity and aromaticity of polyaromatics in radical cyclization reactions. <i>International Journal of Quantum Chemistry</i> , 2004, 96, 568-576.	1.0	51
358	DFT-EPR study of radiation-induced radicals in β -D-glucose. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 102-108.	1.0	22
359	Ab initio group contribution method for activation energies for radical additions. <i>AIChE Journal</i> , 2004, 50, 426-444.	1.8	88
360	Density functional theory as a tool for the structure determination of radiation-induced bioradicals. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, S3-S19.	1.1	6

#	ARTICLE	IF	CITATIONS
361	Reactivity Indices for Radical Reactions Involving Polyaromatics. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7281-7290.	1.1	40
362	Evaluation of Different Model Space Approaches Based on DFT to Examine the EPR Parameters of a Radiation-Induced Radical in Solid-State L-Alanine. <i>Journal of Physical Chemistry A</i> , 2004, 108, 11321-11332.	1.1	33
363	Efficient Use of Bifunctional Acid-Base Properties for Alkylammonium Formation in Amine-Substituted Zeolites. <i>Journal of the American Chemical Society</i> , 2004, 126, 9162-9163.	6.6	25
364	Ab Initio Calculations for Hydrocarbons: Enthalpy of Formation, Transition State Geometry, and Activation Energy for Radical Reactions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9147-9159.	1.1	170
365	Ab initio and experimental study on thermally degradable polycarbonates: Effect of structure on reactivity. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 363-368.	1.0	1
366	Application of molecular cluster models to study the amino acid L-alanine and its derived radicals in the crystalline state. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 511-516.	1.0	9
367	Ab initio study on elementary radical reactions in coke formation. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 384-388.	1.0	20
368	Ab Initio Calculation of Entropy and Heat Capacity of Gas-Phase n-Alkanes Using Internal Rotations. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3139-3145.	1.1	101
369	A recent development in computational chemistry: chemical reactions from first principles molecular dynamics simulations. <i>Chemical Society Reviews</i> , 2003, 32, 151-157.	18.7	40
370	Ab Initio Studies of Thermal Syn-Elimination Reactions in Carbonates: Effect of Structure on Reactivity. <i>Journal of Physical Chemistry A</i> , 2002, 106, 12370-12375.	1.1	5
371	Ab Initio Study of Radical Reactions: Role of Coupled Internal Rotations on the Reaction Kinetics (III). <i>Journal of Physical Chemistry A</i> , 2002, 106, 8945-8950.	1.1	58
372	Reactivity and kinetics of polyaromatic hydrocarbons in elementary radical reactions. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2002, 2, 315-318.	0.1	0
373	The Kinetics of Cyclization Reactions on Polyaromatics from First Principles. <i>ChemPhysChem</i> , 2002, 3, 863-870.	1.0	32
374	Micropatterning of polyurethanes with lasers. <i>Polymer International</i> , 2002, 51, 1172-1177.	1.6	4
375	Density Functional Calculations on Alanine-Derived Radicals: Influence of Molecular Environment on EPR Hyperfine Coupling Constants. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8794-8804.	1.1	40
376	Ab Initio and Experimental Study on Thermally Degradable Polycarbonates: The Effect of Substituents on the Reaction Rates. <i>Journal of the American Chemical Society</i> , 2001, 123, 10650-10657.	6.6	26
377	Ab Initio Study of Radical Reactions: Cyclization Pathways for the Butylbenzene Radical (II). <i>Journal of Physical Chemistry A</i> , 2001, 105, 7713-7723.	1.1	23
378	v-representability of one-body density matrices. <i>Physical Review A</i> , 2001, 64, .	1.0	6

#	ARTICLE	IF	CITATIONS
379	Ab Initio Study of Radical Addition Reactions: Addition of a Primary Ethylbenzene Radical to Ethene (I). Journal of Physical Chemistry A, 2000, 104, 10939-10950.	1.1	139