Jaroslav Vacek

List of Publications by Year in descending order

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39 papers	1,770 citations	346980 22 h-index	355658 38 g-index
42 all docs	42 docs citations	42 times ranked	2479 citing authors

#	Article	IF	Citations
1	Nonaqueous capillary electrophoresis and quantum chemical calculations applied to investigation of acidâ€“base and electromigration properties of azahelicenes. Electrophoresis, 2022, 43, 696-707.	1.3	7
2	Synthesis of Racemic, Diastereopure, and Enantiopure Carba- or Oxa[5]-, [6]-, [7]-, and -[19]helicene (Di)thiol Derivatives. Journal of Organic Chemistry, 2020, 85, 248-276.	1.7	15
3	Chiralityâ€Controlled Selfâ€Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuirâ€“Blodgett Thin Films. Chemistry - A European Journal, 2019, 25, 11393-11393.	1.7	0
4	Chiralityâ€Controlled Selfâ€Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuirâ€“Blodgett Thin Films. Chemistry - A European Journal, 2019, 25, 11494-11502.	1.7	10
5	Large Converse Piezoelectric Effect Measured on a Single Molecule on a Metallic Surface. Journal of the American Chemical Society, 2018, 140, 940-946.	6.6	33
6	Asymmetric Synthesis of Diastereoâ€•and Enantiopure Bioxahelicene 2,2â€²â€Bipyridines. European Journal of Organic Chemistry, 2018, 2018, 5164-5178.	1.2	22
7	Helicenes as Chiralityâ€Inducing Groups in Transitionâ€Metal Catalysis: The First Helically Chiral Olefin Metathesis Catalyst. Chemistry - A European Journal, 2018, 24, 10994-10998.	1.7	32
8	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. Angewandte Chemie, 2017, 129, 5933-5937.	1.6	22
9	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. Angewandte Chemie - International Edition, 2017, 56, 5839-5843.	7.2	61
10	From helical to planar chirality by on-surface chemistry. Nature Chemistry, 2017, 9, 213-218.	6.6	101
11	Chimerical Pyreneâ€Based [7]Helicenes as Twisted Polycondensed Aromatics. Chemistry - A European Journal, 2015, 21, 8910-8917.	1.7	77
12	Mechanical tuning of conductance and thermopower in helicene molecular junctions. Nanoscale, 2015, 7, 8793-8802.	2.8	66
13	An Ultimate Stereocontrol in Asymmetric Synthesis of Optically Pure Fully Aromatic Helicenes. Journal of the American Chemical Society, 2015, 137, 8469-8474.	6.6	97
14	On the Physicochemical Properties of Pyridohelicenes. Chemistry - A European Journal, 2014, 20, 877-893.	1.7	25
15	The Use of Cobaltâ€Mediated Cycloisomerisation of Ynedinitriles in the Synthesis of Pyridazinohelicenes. Chemistry - A European Journal, 2014, 20, 8477-8482.	1.7	14
16	Rapid Access to Dibenzohelicenes and their Functionalized Derivatives. Angewandte Chemie - International Edition, 2013, 52, 9970-9975.	7.2	137
17	The synthesis of Ï€-electron molecular rods with a thiophene or thieno[3,2-b]thiophene core unit and sulfur alligator clips. Tetrahedron Letters, 2013, 54, 2795-2798.	0.7	12
18	Tetrathiafulvaleneâ€“Oligo(paraâ€phenyleneethynylene) Conjugates: Formation of Multiple Mixedâ€Valence Complexes upon Electrochemical Oxidation. Chemistry - A European Journal, 2013, 19, 6108-6121.	1.7	10

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19	Friction in Carborane-Based Molecular Rotors Driven by Gas Flow or Electric Field: Classical Molecular Dynamics. ACS Nano, 2012, 6, 1901-1914.	7.3	54
20	A General Approach to Optically Pure [5]â€‚[6]â€‚and [7]Heterohelicenes. Angewandte Chemie - International Edition, 2012, 51, 5857-5861.	7.2	70
21	Mechanism of the Isotopic Exchange Reaction of the 5â€H Hydrogen of Uracil Derivatives in Water and Nonprotic Solvents. European Journal of Organic Chemistry, 2011, 2011, 777-785.	1.2	10
22	An organometallic route to long helicenes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13169-13174.	3.3	126
23	Calculations of Lithium+ Carborane Complexes. , 2008, , .		0
24	Dipolar molecular rotors in the metalâ€“organic framework crystal IRMOF-2. Physical Chemistry Chemical Physics, 2008, 10, 5188.	1.3	109
25	Coordination-Driven Face-Directed Self-Assembly of Trigonal Prisms. Face-Based Conformational Chirality. Journal of the American Chemical Society, 2008, 130, 7620-7628.	6.6	100
26	Pyridine Ligand Rotation in Self-Assembled Trigonal Prisms. Evidence for Intracage Solvent Vapor Bubbles. Journal of the American Chemical Society, 2008, 130, 7629-7638.	6.6	41
27	Acetic Acid Dimer in the Gas Phase, Nonpolar Solvent, Microhydrated Environment, and Dilute and Concentrated Acetic Acid:â€‰Ab Initio Quantum Chemical and Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2003, 107, 3086-3092.	1.1	143
28	Exploring the Structure of a DNA Hairpin with the Help of NMR Spinâ^'Spin Coupling Constants:Â An Experimental and Quantum Chemical Investigation. Journal of Physical Chemistry B, 2002, 106, 10242-10250.	1.2	22
29	Potential energy and free energy surfaces of the formic acid dimer: Correlated ab initio calculations and molecular dynamics simulationsElectronic supplementary information (ESI) available: Optimised geometries of the structures in Tables 1 and 2. See http://www.rsc.org/suppdata/cp/b1/b110872g/. Physical Chemistry Chemical Physics, 2002, 4, 2119-2122.	1.3	53
30	Stacked Structure of the Glycine Dimer Is More Stable than the Cyclic Planar Geometry with Two Oâ^'HÂ·Â·Â·O Hydrogen Bonds:â€‰ Concerted Action of Empirical, High-Level Nonempirical ab Initio, and Experimental Studies. Journal of Physical Chemistry A, 2002, 106, 11540-11549.	1.1	29
31	Hoogsteen and Stacked Structures of the 9-MethyladenineÂ·Â·Â·1-Methylthymine Pair Are Populated Equally at Experimental Conditions:Â Ab Initio and Molecular Dynamics Study. Journal of Physical Chemistry A, 2001, 105, 1197-1202.	1.1	31
32	Anharmonic treatment of the lowest-energy conformers of glycine: A theoretical study. Journal of Chemical Physics, 2000, 113, 4629-4635.	1.2	64
33	Methylated uracil dimers: potential energy and free energy surfaces. Physical Chemistry Chemical Physics, 2000, 2, 2419-2424.	1.3	16
34	Nuclear Dynamics of BenzeneÂ·Â·Â·(Ar)n Clusters. Journal of Physical Chemistry A, 1998, 102, 8268-8278.	1.1	9
35	Synthesis and Handling of Single Sheets of a Covalent Monolayer Square Grid Polymer. ACS Symposium Series, 1997, , 213-220.	0.5	8
36	On the thermodynamic characteristics of the benzene ? Ar2 complex: An application of the ab initio intermolecular potential. , 1996, 57, 551-557.		6

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37	Gas-Phase Solvation of Benzene by 2-8 Argon Atoms. A Molecular Dynamics Study with ab Initio Intermolecular Potential. The Journal of Physical Chemistry, 1995, 99, 17088-17092.	2.9	14
38	A Molecular Dynamics Study of the Benzene.cntdot..cntdot..cntdot.Arn (n = 3-5) Complex Using the ab Initio Intermolecular Potential. The Journal of Physical Chemistry, 1994, 98, 11034-11039.	2.9	20
39	A molecular dynamics study of the benzeneâ€¦Ar2 complex. Application of the nonempirical ab initio and empirical Lennard-Jones 6â€“12 potentials. Chemical Physics Letters, 1994, 220, 85-92.	1.2	18