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Analysis of the core-repulsion functions used in AM1 and PM3 semiempirical calculations: Conformational analysis of ring systems

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#	Paper	IF	Citations
46	Supramolecular complexes based on calixarenes: force field calculations and applications for chemical sensors. <i>Supramolecular Science</i> , 1994 , 1, 11-19		28
45	Relative stability of alternative chair forms and hydroxymethyl conformations of β -D-glucopyranose. <i>Carbohydrate Research</i> , 1995 , 276, 219-251	2.9	174
44	Theoretical structure investigations of N-acetyl-L-proline amide. <i>Journal of Molecular Structure</i> , 1995 , 352-353, 59-70	3.4	23
43	Solvent effects on Diels-Alder reactions. A semi-empirical study. <i>Computational and Theoretical Chemistry</i> , 1995 , 331, 37-50		26
42	MNDO/AM1/PM3 quantum mechanical semiempirical and molecular mechanics barriers to internal rotation: a comparative study. <i>Computational and Theoretical Chemistry</i> , 1995 , 335, 129-139		23
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40	A pseudorotation model and ring-puckering of cyclopentane. <i>Computational and Theoretical Chemistry</i> , 1996 , 362, 243-255		35
39	Quantum mechanical investigation of cyclic 3',5'-adenosine monophosphate, the second hormonal messenger. <i>Computational and Theoretical Chemistry</i> , 1996 , 362, 297-304		8
38	Conformational equilibria of 5-substituted-1,3-dithianes. Study of solvent effects. <i>Computational and Theoretical Chemistry</i> , 1997 , 418, 113-118		2
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31	The Role of Menthyl Group in Catalyzed Asymmetric Diels-Alder Reactions. A Combined Quantum Mechanics/Molecular Mechanics Study. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4664-4670	4.2	11
30	Computational study of solvation and stereoselectivity in deprotonation of cyclohexene oxide by a chiral lithium amide. <i>Tetrahedron: Asymmetry</i> , 1999 , 10, 265-279		19

29	Stereoselective Diamine Chelates of a Chiral Lithium Amide Dimer: New Insights into the Coordination Chemistry of Chiral Lithium Amides. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1883-1887	16.4	40
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6	Water interactions with hydrophobic groups: assessment and recalibration of semiempirical molecular orbital methods. <i>Journal of Chemical Physics</i> , 2014 , 141, 034106	3.9	15
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4	Novel quantitative structure-activity relationship model to predict activities of natural products against COVID-19. <i>Chemical Biology and Drug Design</i> , 2021 , 97, 978-983	2.9	2
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1	QSAR Model Study of 2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indole of Cystic-brosis-transmembrane Conductance-regulator Gene Potentiators. <i>Letters in Drug Design and Discovery</i> , 2021 , 18,	0.8	0