

Svein Saebo

List of Publications by Year in descending order

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25
papers

1,522
citations

623734

14
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourth-order Møller-Plesset perturbation theory in the local correlation treatment. I. Method. Journal of Chemical Physics, 1987, 86, 914-922.	3.0	443
2	The local correlation treatment. II. Implementation and tests. Journal of Chemical Physics, 1988, 88, 1884-1890.	3.0	254
3	Efficient elimination of basis set superposition errors by the local correlation method: Accurate ab initio studies of the water dimer. Journal of Chemical Physics, 1993, 98, 2170-2175.	3.0	221
4	An efficient reformulation of the closed-shell self-consistent electron pair theory. Journal of Chemical Physics, 1984, 81, 1901-1905.	3.0	169
5	Quantum chemistry in parallel with PQS. Journal of Computational Chemistry, 2009, 30, 317-335.	3.3	104
6	An ab initio study of potentially aromatic and antiaromatic three-membered rings. Journal of the American Chemical Society, 1991, 113, 3689-3696.	13.7	89
7	Ultrasensitive detection of malondialdehyde with surface-enhanced Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2010, 398, 3193-3201.	3.7	46
8	Endohedral and Exohedral Complexes of Polyhedral Double Four-Membered-Ring (D4R) Units with Atomic and Ionic Impurities. Journal of Physical Chemistry A, 2004, 108, 11260-11272.	2.5	30
9	Endohedral and Exohedral Complexes of T ₈ -Polyhedral Oligomeric Silsesquioxane (POSS) with Transition Metal Atoms and Ions. Journal of Physical Chemistry C, 2008, 112, 16070-16077.	3.1	20
10	Ring puckering potential of oxetane: TZ + nP/MP4 (SDQ) results. The Journal of Physical Chemistry, 1987, 91, 4216-4218.	2.9	19
11	Structures, Stabilities, and Electronic Properties of Endo- and Exohedral Complexes of T ₁₀ -Polyhedral Oligomeric Silsesquioxane Cages. Journal of Physical Chemistry C, 2007, 111, 6199-6206.	3.1	19
12	The effect of electron correlation on the trans-cis energy difference of glyoxal. Chemical Physics, 1987, 113, 383-389.	1.9	17
13	Molecular structure and conformation of fluoromethyl-substituted cyclopropane and oxirane. MP4(SDQ)/6-3110+ results. Computational and Theoretical Chemistry, 1991, 235, 447-457.	1.5	16
14	Structures and Stabilities of Clusters of Si ₁₂ , Si ₁₈ , and Si ₂₀ Containing Endohedral Charged and Neutral Atomic Species. Journal of Physical Chemistry C, 2007, 111, 13864-13871.	3.1	16
15	Insertion of transition metal atoms and ions into the nanoscale dodecahedral silsesquioxane (T ₁₂ -POSS) cage: Structures, stabilities and electronic properties. Chemical Physics Letters, 2009, 467, 348-353.	2.6	11
16	Structures, Stabilities and Electronic Properties of Endo- and Exohedral Dodecahedral Silsesquioxane (T ₁₂ -POSS) Nanosized Complexes with Atomic and Ionic Species. Journal of Inorganic and Organometallic Polymers and Materials, 2010, 20, 424-444.	3.7	8
17	Four-membered ring cyclic ketene "O,O", "O,S", "O,N", "S,S", "S,N", and "N,N" acetals and their corresponding cations: a computational study. Structural Chemistry, 2012, 23, 351-357.	2.0	7
18	A coupled-cluster approach to the relative strains in [1.1.1]propellane, its derivatives and hetero[1.1.1]propellanes. Molecular Physics, 2012, 110, 2349-2357.	1.7	6

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19	Optimizing Online Content Instruction for Effective Hybrid Teacher Professional Development Programs. <i>Journal of Science Teacher Education</i> , 2017, 28, 507-521.	2.5	6
20	Ab initio studies of the C ₂ H ₂ BN potential energy surface. <i>Computational and Theoretical Chemistry</i> , 2003, 621, 189-209.	1.5	5
21	Theoretical Investigation of the C ₂ H ₂ B ₂ Potential Energy Surface. <i>Structural Chemistry</i> , 2003, 14, 325-335.	2.0	4
22	The potential energy surface of singlet cyclobutadiene and substituted analogs: a coupled-cluster study. <i>Structural Chemistry</i> , 2014, 25, 635-648.	2.0	4
23	Ab Initio Studies of Benzocyclopropanone, Benzocyclopropanone-Containing [2.2]paracyclophane, Its Benzyne Derivative, and the Bridged Benzobarrelene Formed by Intramolecular [4 + 2]Cycloaddition. <i>Journal of Organic Chemistry</i> , 2000, 65, 6620-6626.	3.2	3
24	Theoretical study of geometry and nucleophilicity of the exocyclic methylene in five-membered ring cyclic ketene acetals, neutral and protonated, containing pnictogen and chalcogen heteroatoms. <i>Structural Chemistry</i> , 2014, 25, 371-376.	2.0	3
25	Beyond the professional development academy: Teachers' retention of discipline-specific science content knowledge throughout a 3-year mathematics and science partnership. <i>School Science and Mathematics</i> , 2018, 118, 75-83.	0.9	2