

Michael Springborg

List of Publications by Year in descending order

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67
papers

779
citations

516710

16
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552781

26
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70
all docs

70
docs citations

70
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT evaluation of structural, electronic and variation properties for complex carbohydrates with biological interest. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 5981-5989.	3.5	1
2	Role of the Backbone when Optimizing Functional Groups – A Theoretical Study Based on an Improved Inverse-Design Approach. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1289-1299.	2.5	1
3	Theoretical study of the structural and energetic properties of platinum clusters with up to 60 atoms. <i>Structural Chemistry</i> , 2021, 32, 469-479.	2.0	6
4	Ag_mRh_n clusters with $m+n \leq 55$. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	1
5	Course on the Use of DFT Calculations to Improve Understanding of Phase Diagrams in Solid-State Chemistry. <i>Journal of Chemical Education</i> , 2021, 98, 3207-3217.	2.3	2
6	Silver hollandite ($\text{Ag}_x\text{Mn}_8\text{O}_{16}$, $x \approx 2$): A highly anisotropic half-metal for spintronics. <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
7	Kinetics and Thermodynamics of CO Oxidation by $(\text{TiO}_2)_6$. <i>Molecules</i> , 2021, 26, 6415.	3.8	0
8	Global Optimization of Li and Na Clusters: Application of a Modified Embedded Atom Method. <i>Journal of Cluster Science</i> , 2020, 31, 769-790.	3.3	4
9	Mechanistic Details and Conformational Behavior of Selective Peptide Linkage Facilitated by Au_n Clusters. <i>ChemistrySelect</i> , 2020, 5, 8352-8362.	1.5	0
10	Optimizing small conjugated molecules for solar-cell applications using an inverse-design method. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 100, 107654.	2.4	2
11	Theoretical study of the mechanism behind the site- and enantio-selectivity of C^{H} functionalization catalysed by chiral dirhodium catalyst. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9561-9572.	2.8	5
12	Ultrarrow heterojunctions of armchair-graphene nanoribbons as resonant-tunnelling devices. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24867-24875.	2.8	2
13	The impact of functionalization of organic semiconductors by electron donating groups on the reorganization energy. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	11
14	Density Functional Theory Descriptors for Ionic Liquids and the Introduction of a Coulomb Correction. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4188-4200.	2.5	16
15	Application of an inverse-design method to optimizing porphyrins in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5834-5844.	2.8	8
16	Density Functional Theory Descriptors for Ionic Liquids and the Charge-Transfer Interpretation of the Haven Ratio. <i>Journal of Physical Chemistry A</i> , 2019, 123, 851-861.	2.5	22
17	Theoretical Treatment for Properties of Surfaces and Their Interplay with Bulk Properties of Crystals. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800117.	2.8	2
18	Reactivity descriptors for DNA bases and the methylation of cytosine. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25538.	2.0	5

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37	L'Oeuvre of Bernie Kirtman. , 2012, , .		0
38	On the dependence of bulk properties on surfaces. , 2012, , .		0
39	Determining the size dependence of structural properties of clusters. , 2012, , .		0
40	On the response of large systems to electrostatic fields. , 2012, , .		2
41	Theoretical Determination of the Most Stable Structures of Ni _m Ag _n Bimetallic Nanoalloys. Journal of Physical Chemistry C, 2011, 115, 7179-7192.	3.1	64
42	Global Minimum Structures and Magic Clusters of Cu _m Ag _n Nanoalloys. Journal of Physical Chemistry C, 2011, 115, 22148-22162.	3.1	64
43	Theoretical investigation of the hydrogenation induced atomic rearrangements in palladium rich intermetallic compounds MPd ₃ (M = Mg, In, Tl). European Physical Journal B, 2011, 82, 1-6.	1.5	11
44	On the dipolar electric field response of large systems. Theoretical Chemistry Accounts, 2011, 130, 687-700.	1.4	13
45	Structural and thermodynamic properties of Au ₂₀ clusters. Theoretical Chemistry Accounts, 2011, 130, 1001-1008.	1.4	10
46	Termination effects in electric field polarization of periodic quasi-one-dimensional systems. Physical Review B, 2010, 82, .	3.2	19
47	Structural Responses of Infinite Periodic Systems to Electrostatic Fields. , 2009, , .		0
48	Effect of Substitution at the Ends of Long Chains on their Responses to Electrostatic Fields. , 2009, , .		0
49	A combined experimental and theoretical approach for structural study on a new cinnamoyl derivative of 2-acetyl-1,3-indandione and its metal(II) complexes. Structural Chemistry, 2009, 20, 101-111.	2.0	15
50	Elemental chains. International Journal of Quantum Chemistry, 2009, 109, 837-848.	2.0	6
51	Structural, energetic, and electronic properties of Sin, Gen, and SinGen clusters. European Physical Journal D, 2009, 52, 39-42.	1.3	12
52	Theoretical study on the structural properties of alkali-metal heteroclusters. European Physical Journal D, 2009, 52, 35-38.	1.3	11
53	Solvent effects on the absorption/emission spectra of an organic chromophore: A theoretical study. Computational and Theoretical Chemistry, 2008, 866, 15-20.	1.5	17
54	How much can donor/acceptor-substitution change the responses of long push-pull systems to DC fields?. Chemical Physics Letters, 2008, 454, 105-113.	2.6	16

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55	Analysis of vector potential approach for calculating linear and nonlinear responses of infinite periodic systems to a finite static external electric field. <i>Physical Review B</i> , 2008, 77, .	3.2	32
56	Efficient vector potential method for calculating electronic and nuclear response of infinite periodic systems to finite electric fields. <i>Journal of Chemical Physics</i> , 2007, 126, 104107.	3.0	38
57	Theoretical Study of the Structure and Energetics of Silver Clusters. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12577-12587.	3.1	32
58	Unbiased Determination of Structural and Electronic Properties of Gold Clusters with up to 58 Atoms. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12528-12535.	3.1	34
59	Some continuous geometry transitions and the consequences for a transition-metal atom. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 1073-1084.	2.0	0
60	Electronic properties of Ge-Si nanoparticles. <i>European Physical Journal D</i> , 2007, 43, 213-216.	1.3	10
61	Global structure optimization study on Au ₂₋₂₀ . <i>European Physical Journal D</i> , 2007, 43, 15-18.	1.3	32
62	Structural and energetic properties of sodium clusters. <i>European Physical Journal D</i> , 2007, 43, 19-22.	1.3	8
63	Deposition of Ni ₁₃ and Cu ₁₃ clusters on Ni(111) and Cu(111) surfaces. <i>European Physical Journal D</i> , 2007, 45, 425-431.	1.3	3
64	Infinite and finite solids. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 2077-2077.	1.2	0
65	Theoretical study of structural, electronic, and optical properties of ZnMnSe clusters. <i>Physical Review B</i> , 2006, 73, .	3.2	35
66	Structure and energetics of nickel, copper, and gold clusters. <i>European Physical Journal D</i> , 2005, 34, 187-190.	1.3	34
67	The Effects of Organisation, Embedding and Surfactants on the Properties of Cadmium Chalcogenide (CdS, CdSe and CdS/CdSe) Semiconductor Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3585-3596.	2.0	33