

Maurizio Sironi

List of Publications by Year in descending order

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63
papers

1,373
citations

279798

23
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361022

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63
all docs

63
docs citations

63
times ranked

1498
citing authors

#	ARTICLE	IF	CITATIONS
1	Halogen bonding in ligand-receptor systems in the framework of classical force fields. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19508.	2.8	85
2	Halogen bonds with benzene: An assessment of DFT functionals. <i>Journal of Computational Chemistry</i> , 2014, 35, 386-394.	3.3	73
3	Molecular dynamics simulation of aqueous solutions of trimethylamine-N-oxide and tert-butyl alcohol. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4905.	2.8	69
4	Determination of extremely localized molecular orbitals and their application to quantum mechanics/molecular mechanics methods and to the study of intramolecular hydrogen bonding. <i>Computational and Theoretical Chemistry</i> , 2003, 632, 157-172.	1.5	67
5	Expansion of the spin-coupled wavefunction in Slater determinants. <i>Theoretica Chimica Acta</i> , 1993, 85, 261-270.	0.8	61
6	Extremely localized molecular orbitals: theory and applications. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 685-698.	1.4	60
7	Halogen-Bonding Interactions with π Systems: CCSD(T), MP2, and DFT Calculations. <i>ChemPhysChem</i> , 2012, 13, 4224-4234.	2.1	51
8	In silico design of tubulin-targeted antimetabolic peptides. <i>Nature Chemistry</i> , 2009, 1, 642-648.	13.6	38
9	The Extraordinary Electronic Structure of N ₂ S ₂ . <i>Journal of the American Chemical Society</i> , 1996, 118, 6472-6476.	13.7	36
10	Synthesis, Crystal Structure and Biological Activity of 2-Hydroxyethylammonium Salt of p-Aminobenzoic Acid. <i>PLoS ONE</i> , 2014, 9, e101892.	2.5	36
11	A novel extremely localized molecular orbitals based technique for the one-electron density matrix computation. <i>Chemical Physics Letters</i> , 2005, 415, 256-260.	2.6	35
12	Hartree-Fock limit properties of the water dimer in absence of BSSE. <i>Chemical Physics</i> , 1998, 232, 275-287.	1.9	33
13	Boehmeriasin A as new lead compound for the inhibition of topoisomerases and SIRT2. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 766-775.	5.5	32
14	A novel approach to relax extremely localized molecular orbitals: the extremely localized molecular orbital-valence bond method. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 254.	1.4	31
15	Studies on Umami Taste. Synthesis of New Guanosine 5'-Phosphate Derivatives and Their Synergistic Effect with Monosodium Glutamate. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1043-1050.	5.2	31
16	Optimal virtual orbitals to relax wave functions built up with transferred extremely localized molecular orbitals. <i>Journal of Computational Chemistry</i> , 2005, 26, 827-835.	3.3	30
17	Solvent effect on halogen bonding: The case of the $\text{I}\cdots\text{O}$ interaction. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 38, 31-39.	2.4	30
18	Molecular dynamics simulation of aqueous solutions of glycine betaine. <i>Chemical Physics Letters</i> , 2003, 367, 238-244.	2.6	29

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19	The electronic structure of CH ₂ and the cycloaddition reaction of methylene with ethene. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1987, 83, 1651.	1.1	28
20	DENPOL: A new program to determine electron densities of polypeptides using extremely localized molecular orbitals. <i>Computational and Theoretical Chemistry</i> , 2009, 898, 8-16.	1.5	27
21	Quinazolinecarboline alkaloid evodiamine as scaffold for targeting topoisomerase I and sirtuins. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6920-6928.	3.0	26
22	On the suitability of strictly localized orbitals for hybrid QM/MM calculations. <i>Journal of Computational Chemistry</i> , 2006, 27, 515-523.	3.3	25
23	4-(1,2-diarylbut-1-en-1-yl)isobutyranilide derivatives as inhibitors of topoisomerase II. <i>European Journal of Medicinal Chemistry</i> , 2016, 118, 79-89.	5.5	24
24	A Simple Mechanism Underlying the Effect of Protecting Osmolytes on Protein Folding. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3846-3852.	5.3	23
25	The modern valence bond description of naphthalene. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 675.	2.0	22
26	Frozen core orbitals as an alternative to specific frontier bond potential in hybrid Quantum Mechanics/Molecular Mechanics methods. <i>Chemical Physics Letters</i> , 2006, 427, 236-240.	2.6	22
27	Metadynamics Study of a β -Hairpin Stability in Mixed Solvents. <i>Journal of the American Chemical Society</i> , 2011, 133, 2897-2903.	13.7	22
28	Electrophysiological and metabolic effects of CHF5074 in the hippocampus: Protection against in vitro ischemia. <i>Pharmacological Research</i> , 2014, 81, 83-90.	7.1	22
29	Unusual properties of aqueous solutions of l-proline: A molecular dynamics study. <i>Chemical Physics Letters</i> , 2005, 415, 274-278.	2.6	20
30	The nature of the platinum-phosphine bond. An ab initio Hartree-Fock and density functional study. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995, , 4121-4126.	1.1	18
31	Camptothecin-methanthiole: Semisynthesis and Biological Evaluation. <i>ChemMedChem</i> , 2012, 7, 2134-2143.	3.2	18
32	Water interaction with glycine betaine: A hybrid QM/MM molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1081-1085.	2.8	17
33	X-ray constrained spin-coupled technique: theoretical details and further assessment of the method. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 778-797.	0.1	17
34	The spin-coupled description of lithium clusters. <i>Computational and Theoretical Chemistry</i> , 1992, 259, 383-410.	1.5	15
35	Regio- and diastereoselectivity in TiCl ₄ -promoted reduction of 2-aryl-substituted cis-4-methyl-5-trifluoromethyl-1,3-dioxolanes. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2609-2618.	1.8	14
36	Synthesis of Pironetin-Dumetorine Hybrids as Tubulin Binders. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2029-2036.	2.4	14

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37	The transferability of extremely localized molecular orbitals. Computational and Theoretical Chemistry, 2000, 529, 47-54.	1.5	13
38	A Hylleraas functional based perturbative technique to relax the extremely localized molecular orbital wavefunction. Journal of Chemical Physics, 2008, 129, 054101.	3.0	13
39	Ab initio non-orthogonal approaches to the computation of weak interactions and of localised molecular orbitals for QM/MM procedures. Computational and Theoretical Chemistry, 2001, 573, 25-42.	1.5	11
40	The unusual coordination of carbon atoms in bicyclic 1,6-methano[10]annulene: a modern valence bond study. Computational and Theoretical Chemistry, 1995, 338, 257-265.	1.5	9
41	Evidence for a nucleophilic anti-attack on the cleaved C(2)-oxygen bond in Cl ₂ AlH-catalyzed ring-opening of 2-substituted 1,3-dioxolanes. Tetrahedron Letters, 2005, 46, 1837-1840.	1.4	9
42	Modeling enzymatic processes: A molecular simulation analysis of the origins of regioselectivity. Chemical Physics Letters, 2006, 418, 373-376.	2.6	9
43	Atomic level description of the protecting effect of osmolytes against thermal denaturation of proteins. Chemical Physics Letters, 2007, 438, 298-303.	2.6	9
44	Vinblastine perturbation of tubulin protofilament structure: a computational insight. Physical Chemistry Chemical Physics, 2010, 12, 15530.	2.8	9
45	In silico study of VP35 inhibitors: from computational alanine scanning to essential dynamics. Molecular BioSystems, 2015, 11, 2152-2157.	2.9	9
46	Effects of hydrated Mg ⁺⁺ interacting with the guanine site in cytosine-guanine nucleic acid-base pair: an ab initio Hartree-Fock study in the absence of basis set superposition error. Computational and Theoretical Chemistry, 2000, 529, 209-217.	1.5	8
47	Determination of extremely localized molecular orbitals in the framework of density functional theory. Theoretical Chemistry Accounts, 2004, 112, 247.	1.4	8
48	Computer aided design of FtsZ targeting oligopeptides. RSC Advances, 2013, 3, 1739-1743.	3.6	8
49	Molecular modeling of the inhibition of protein-protein interactions with small molecules: The IL2 case. Chemical Physics Letters, 2011, 517, 217-222.	2.6	7
50	9-Fluorenone-2-Carboxylic Acid as a Scaffold for Tubulin Interacting Compounds. ChemPlusChem, 2013, 78, 663-669.	2.8	7
51	Spin-coupled VB study of the di-cations of methane, ammonia and water. Molecular Physics, 1988, 65, 251-259.	1.7	6
52	New ab initio VB interaction potential for molecular dynamics simulation of liquid water. Advances in Quantum Chemistry, 1998, 32, 263-284.	0.8	6
53	Accurate Description of Nitrogenous Base Flexibility in Classical Molecular Dynamics Simulations of Nucleotides Bound to Proteins. Journal of Physical Chemistry B, 2007, 111, 6297-6302.	2.6	6
54	Molecular insights into the stabilization of protein-protein interactions with small molecule: The FKBP12-rapamycin-FRB case study. Chemical Physics Letters, 2013, 587, 68-74.	2.6	6

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55	Modelling the effect of osmolytes on peptide mechanical unfolding. <i>Chemical Physics Letters</i> , 2013, 578, 138-143.	2.6	5
56	A valence bond description of the bromine halogen bond. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25946.	2.0	4
57	A molecular dynamics study of human endostatin and its synthetic fragments with antiangiogenic properties. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3066.	2.8	3
58	Computational investigation of the nucleophilic reaction between methylthiolate and 4-bromo-3-methylamino-isothiazole 1,1-dioxide. <i>Computational and Theoretical Chemistry</i> , 2005, 726, 107-113.	1.5	2
59	A molecular dynamics study of an endostatin-derived peptide with antiangiogenic activity and of its mutants. <i>Chemical Physics Letters</i> , 2008, 455, 311-315.	2.6	2
60	Simulating Multiple Substrate-Binding Events by \hat{I}^3 -Glutamyltransferase Using Accelerated Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10104-10116.	2.6	2
61	Exploring Orthogonality between Halogen and Hydrogen Bonding Involving Benzene. <i>Molecules</i> , 2021, 26, 7126.	3.8	1
62	Spin correlation function of benzene and naphthalene from spin-coupled wave functions. <i>Journal of Chemical Physics</i> , 2001, 114, 1505-1509.	3.0	0
63	Molecular Similarity Perception Based on Machine-Learning Models. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6114.	4.1	0