List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Density Functional Theory Predictions of Isotropic Hyperfine Coupling Constants. Journal of Physical Chemistry A, 2005, 109, 1114-1124.	2.5	102
2	Structural Modulation of the Dipolarâ^'Octupolar Contributions to the NLO Response in Subphthalocyanines. Journal of Physical Chemistry B, 2005, 109, 3800-3806.	2.6	98
3	Polarized basis sets of Slater-type orbitals: H to Ne atoms. Journal of Computational Chemistry, 2003, 24, 859-868.	3.3	62
4	Subphthalocyanines and Subnaphthalocyanines:  Nonlinear Quasi-Planar Octupolar Systems with Permanent Polarity. Journal of Physical Chemistry B, 2002, 106, 13139-13145.	2.6	60
5	Density Functional Theory Study of 14N Isotropic Hyperfine Coupling Constants of Organic Radicals. Journal of Physical Chemistry A, 2006, 110, 13600-13608.	2.5	55
6	Novel Pushâ^'Pull Phthalocyanines as Targets for Second-Order Nonlinear Applications. Journal of Physical Chemistry A, 2003, 107, 2110-2117.	2.5	51
7	Theoretical Isotropic Hyperfine Coupling Constants of Third-Row Nuclei (29Si,31P, and33S). Journal of Physical Chemistry A, 2005, 109, 7626-7635.	2.5	45
8	Subphthalocyanine-Fused Dimers and Trimers:Â Synthetic, Electrochemical, and Theoretical Studies. Journal of Organic Chemistry, 2007, 72, 2967-2977.	3.2	41
9	Influence of Density Functionals and Basis Sets on One-Bond Carbonâ^'Carbon NMR Spinâ^'Spin Coupling Constants. Journal of Chemical Theory and Computation, 2008, 4, 448-456.	5.3	40
10	Predictions of Physicochemical Properties of Ionic Liquids with DFT. Computation, 2016, 4, 25.	2.0	35
11	A theoretical study of subphthalocyanine and its nitro- and tertbutyl-derivatives. Computational and Theoretical Chemistry, 2001, 537, 223-234.	1.5	31
12	Basis set superposition error in MP2 and density-functional theory: A case of methane-nitric oxide association. Journal of Chemical Physics, 2005, 123, 134107.	3.0	31
13	Improvements in DFT Calculations of Spin–Spin Coupling Constants. Journal of Chemical Theory and Computation, 2014, 10, 4938-4949.	5.3	31
14	Electron density analysis of 1-butyl-3-methylimidazolium chloride ionic liquid. Journal of Molecular Modeling, 2014, 20, 2175.	1.8	31
15	The axial coordination in subphthalocyanines: Geometrical and electronic aspects. Journal of Porphyrins and Phthalocyanines, 2001, 05, 491-499.	0.8	28
16	Molecular Structure of Chloro-dodecafluorosubphthalocyanato Boron(III) by Gas-Phase Electron Diffraction and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2007, 111, 4542-4550.	2.5	27
17	Density Functional Theory Study of Ionic Liquid Adsorption on Circumcoronene Shaped Graphene. Journal of Physical Chemistry C, 2018, 122, 2624-2631.	3.1	26
18	Comparison of Combinatorial Clustering Methods on Pharmacological Data Sets Represented by Machine Learning-Selected Real Molecular Descriptors. Journal of Chemical Information and Modeling, 2011, 51, 3036-3049.	5.4	25

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19	Effects of the 3- and 4-Methoxy and Acetamide Substituents and Solvent Environment on the Electronic Properties of N-Substituted 1,8-Naphthalimide Derivatives. Journal of Physical Chemistry A, 2007, 111, 9724-9732.	2.5	24
20	Computational NMR coupling constants: Shifting and scaling factors for evaluating ¹ <i>J</i> _{<i>CH</i>} . Magnetic Resonance in Chemistry, 2013, 51, 775-787.	1.9	23
21	Density functional study of the redox processes in subphthalocyanines. International Journal of Quantum Chemistry, 2003, 91, 369-375.	2.0	21
22	Self-interaction error in DFT-based modelling of ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 2175-2182.	2.8	20
23	CNDOL: A fast and reliable method for the calculation of electronic properties of very large systems. Applications to retinal binding pocket in rhodopsin and gas phase porphine. Journal of Chemical Physics, 2007, 127, 145102.	3.0	19
24	Applying pattern recognition methods plus quantum and physicoâ€chemical molecular descriptors to analyze the anabolic activity of structurally diverse steroids. Journal of Computational Chemistry, 2008, 29, 317-333.	3.3	19
25	Understanding the Structure and Properties of Cholinium Amino Acid Based Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 10327-10335.	2.6	19
26	Unusual hydrogen bond patterns contributing to supramolecular assembly: conformational study, Hirshfeld surface analysis and density functional calculations of a new steroid derivative. CrystEngComm, 2014, 16, 7802-7814.	2.6	18
27	The role of errors related to DFT methods in calculations involving ion pairs of ionic liquids. Journal of Computational Chemistry, 2017, 38, 530-540.	3.3	18
28	On the unusual ² <i>J</i> coupling dependence on <i>syn</i> / <i>anti</i> CHO conformation in 5â€Xâ€furanâ€2â€carboxaldehydes. Magnetic Resonance in Chemistry, 2008, 46, 846-850.	1.9	17
29	Approximating correlation effects in multiconfigurational self-consistent field calculations of spin-spin coupling constants. Journal of Chemical Physics, 2008, 128, 084108.	3.0	17
30	Jahn-Teller effect and dissociation from the ground state of CF4+. Chemical Physics, 1991, 151, 335-342.	1.9	16
31	Theoretical Karplus relationships for vicinal coupling constants around χ1 in Valine. Chemical Physics Letters, 2007, 442, 119-123.	2.6	16
32	Effect of the molecular structure in the prediction of thermodynamic properties for 1â€butylâ€3â€methylimidazolium chloride ionic liquid. International Journal of Quantum Chemistry, 2013, 113, 852-858.	2.0	16
33	In silicoAntibacterial Activity Modeling Based on the TOMOCOMD-CARDD Approach. Journal of the Brazilian Chemical Society, 2015, , .	0.6	16
34	Relativistic corrections to the atomic electron affinities. Physical Review A, 1995, 51, 2616-2618.	2.5	15
35	Electronic excitations of C60 aggregates. Physical Chemistry Chemical Physics, 2012, 14, 13058.	2.8	15
36	Assessment of DFT functionals with fluorine–fluorine coupling constants. Molecular Physics, 2015, 113, 1924-1936.	1.7	15

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37	Two-configuration mc potential energy surface for the reaction of Mg with HF. Chemical Physics, 1986, 101, 55-65.	1.9	14
38	Dunn's index for cluster tendency assessment of pharmacological data sets. Canadian Journal of Physiology and Pharmacology, 2012, 90, 425-433.	1.4	14
39	The absorption spectrum of C60 in n-hexane solution revisited: Fitted experiment and TDDFT/PCM calculations. Chemical Physics Letters, 2014, 593, 72-76.	2.6	14
40	Assessing How Correlated Molecular Orbital Calculations Can Perform versus Kohn–Sham DFT: Barrier Heights/Isomerizations. Chemistry - A European Journal, 2017, 23, 9122-9129.	3.3	14
41	Molecular modeling of highly peripheral substituted Mg- and Zn-porphyrins. Physical Chemistry Chemical Physics, 2000, 2, 4147-4156.	2.8	13
42	Dumbbell-Type Fullerene-Steroid Hybrids: A Join Experimental and Theoretical Investigation for Conformational, Configurational, and Circular Dichroism Assignments. Journal of Organic Chemistry, 2014, 79, 3473-3486.	3.2	13
43	RHF potential energy surface for the collinear reaction of Na with HF. Journal of Molecular Structure, 1986, 142, 525-528.	3.6	12
44	Chemometric and chemoinformatic analyses of anabolic and androgenic activities of testosterone and dihydrotestosterone analogues. Bioorganic and Medicinal Chemistry, 2008, 16, 6448-6459.	3.0	12
45	Quantum chemical applications of the theory of the distance between subspaces. Computational and Theoretical Chemistry, 1989, 184, 1-10.	1.5	11
46	Potential energy surfaces and Jahn-Teller effect on CH4â< NO complexes. Journal of Chemical Physics, 2007, 127, 104305.	3.0	11
47	A mathematical model applied for assisting the estimation of PMI in a case of forensic importance. First record of Conicera similis (Diptera: Phoridae) in a corpse. Forensic Science International, 2013, 231, e11-e18.	2.2	11
48	Configurational assignment and conformational study of 1-methylsulfinyl-2-propanol by 1H-NMR and AB initio calculations. Journal of Molecular Structure, 1986, 144, 109-119.	3.6	10
49	Application of the distance between subspaces to the evaluation of wavefunction quality. Computational and Theoretical Chemistry, 1990, 210, 79-84.	1.5	10
50	Alkyl substituent effect on density, viscosity and chemical behavior of 1-alkyl-3-methylimidazolium chloride. Journal of Molecular Modeling, 2014, 20, 2392.	1.8	10
51	Modeling EPR parameters of nitrogen containing conjugated radical cations. RSC Advances, 2015, 5, 62551-62562.	3.6	10
52	Theoretical calculations of the hyperfine coupling constants of organic radicals Computational and Theoretical Chemistry, 1985, 120, 383-386.	1.5	9
53	Potential energy surface for collinear Mg + FH → MgF + H reaction. Computational and Theoretical Chemistry, 1985, 120, 475-478.	1.5	9
54	Accurate Roothaan-Hartree-Fock momentum expectation values for ground states of the atoms He to Xe. Chemical Physics Letters, 1995, 236, 616-620.	2.6	9

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55	Electron Affinity of SF6. Advances in Quantum Chemistry, 1997, 28, 189-203.	0.8	9
56	Acid-base behavior of triazoleporphyrazines in proton-donating media. Journal of Physical Organic Chemistry, 2005, 18, 329-335.	1.9	9
57	Approximate quantum mechanical method for describing excitations and related properties of finite single-walled carbon nanotubes. Physical Review B, 2010, 81, .	3.2	9
58	Communication: Accurate determination of side-chain torsion angle χ1 in proteins: Phenylalanine residues. Journal of Chemical Physics, 2011, 134, 061101.	3.0	9
59	Role of Augmented Basis Sets and Quest for ab Initio Performance/Cost Alternative to Kohn–Sham Density Functional Theory. Journal of Physical Chemistry A, 2020, 124, 126-134.	2.5	9
60	Atomic partitioning of long-range two-center potentials. Computational and Theoretical Chemistry, 1985, 120, 163-174.	1.5	8
61	Theoretical study of low-lying electronic states of BP molecule. Chemical Physics Letters, 2003, 381, 720-724.	2.6	8
62	The σ-donating and π-accepting properties ofortho-Si(CH3)3phosphinine macrocycles. Heteroatom Chemistry, 2003, 14, 160-169.	0.7	8
63	Influence of electronic correlation in monoelectronic density in p-space. Theoretical Chemistry Accounts, 2007, 118, 723-732.	1.4	8
64	Ultrathin Carbon Nanotube With Single, Double, and Triple Bonds. Physical Review Letters, 2012, 109, 105501.	7.8	8
65	Extension of the AMBER Force Field for Nitroxide Radicals and Combined QM/MM/PCM Approach to the Accurate Determination of EPR Parameters of DMPO-H in Solution. Journal of Chemical Theory and Computation, 2013, 9, 3626-3636.	5.3	8
66	Single-exponent Slater function expansions of the He atom 1s orbital and its isoelectronic series. Chemical Physics Letters, 1993, 207, 270-274.	2.6	7
67	Analytic expressions for one-centrep-space integrals over Slater functions. Journal of Mathematical Chemistry, 1993, 14, 219-229.	1.5	7
68	Double- and triple-zeta Slater-type basis sets with common exponents. Theoretical Chemistry Accounts, 2000, 104, 167-171.	1.4	7
69	A theoretical approach to the influence of the macrocycle conformation on the molecular electronic structure in Mg-porphyrins. Journal of Computer-Aided Molecular Design, 2001, 15, 183-193.	2.9	7
70	Anabolic and androgenic activities of 19-nor-testosterone steroids: QSAR study using quantum and physicochemical molecular descriptors. Journal of Steroid Biochemistry and Molecular Biology, 2011, 126, 35-45.	2.5	7
71	Effect of dielectric constant on estimation of properties of ionic liquids: an analysis of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. RSC Advances, 2015, 5, 72709-72715.	3.6	7
72	Integrating sampling techniques and inverse virtual screening: toward the discovery of artificial peptide-based receptors for ligands. Molecular Diversity, 2016, 20, 421-438.	3.9	7

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73	Molecular modeling and physicochemical properties of 1-alkyl-3-methylimidazolium-FeX 4 and -Fe 2 X 7 (X = Cl and Br) magneticAionic liquids. Journal of Molecular Liquids, 2018, 256, 175-182.	4.9	7
74	Ab initio calculations of the potential surface for the 2A1, state of CH4+. Computational and Theoretical Chemistry, 1983, 105, 31-36.	1.5	6
75	Single-exponent Slater function expansions for lithium to neon atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5273-5282.	1.5	6
76	A theoretical approach to the solvation of brassinosteroids. Journal of Molecular Graphics and Modelling, 2009, 27, 600-610.	2.4	6
77	Single-Sheeted Double Many-Body Expansion Potential Energy Surface for Ground-State ClO ₂ . Journal of Physical Chemistry A, 2014, 118, 4851-4862.	2.5	6
78	Undersampling: case studies of flaviviral inhibitory activities. Journal of Computer-Aided Molecular Design, 2019, 33, 997-1008.	2.9	6
79	ESR study and ab initio calculations of some methylbenzoates derivatives Journal of Molecular Structure, 1986, 142, 427-430.	3.6	5
80	Numerical Hartree-Fock energies for HI-1anions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L447-L449.	1.5	5
81	Slater Functions for Y to Cd Atoms by the Distance between Subspaces. Journal of Solid State Chemistry, 1995, 116, 275-280.	2.9	5
82	Molecular Schr�dinger-Riccati calculations. Test for the hydrogen-ion molecule. Theoretical Chemistry Accounts, 2001, 106, 434-438.	1.4	5
83	The Schr¶dinger—Riccati equation. The ground-state energy of Be I. Canadian Journal of Physics, 2002, 80, 1053-1057.	1.1	5
84	Coulomb and Exchange contributions to electronic excitations of benzene aggregates. Chemical Physics Letters, 2011, 502, 271-276.	2.6	5
85	Theoretical DFT karplus equations: Amino acid sideâ€chain torsion angle χ ₁ . International Journal of Quantum Chemistry, 2013, 113, 656-660.	2.0	5
86	Electron density deformations provide new insights into the spectral shift of rhodopsins. Journal of Computational Chemistry, 2013, 34, 2460-2471.	3.3	5
87	Conformational study of the vinylphosphonic acid and derivatives. International Journal of Quantum Chemistry, 2003, 91, 333-338.	2.0	4
88	Analysis of Contributions to Spin–Spin Coupling Constants by the Natural J-Coupling Method. Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems, 2013, 3, 161-207.	0.6	4
89	Natural bond orbital/natural J-coupling study of vicinal couplings. Journal of Molecular Modeling, 2014, 20, 2225.	1.8	4
90	Evolutionary algorithm-based generation of optimum peptide sequences with dengue virus inhibitory activity. Future Medicinal Chemistry, 2021, 13, 993-1000.	2.3	4

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91	Generation of Basis Sets for Accurate Molecular Calculations: Application to Helium Atom and Dimer. Computation, 2022, 10, 65.	2.0	4
92	On the interpretation of the electronic structure and ESR spectrum of CH+4. Journal of Molecular Structure, 1986, 142, 323-326.	3.6	3
93	A new procedure to obtain GTO wave functions and to analyze their quality. Computational and Theoretical Chemistry, 1992, 254, 21-29.	1.5	3
94	Application of orbital momentum properties to the analysis of the quality of basis sets. Computational and Theoretical Chemistry, 1993, 287, 39-46.	1.5	3
95	Theoretical Study of Imidazole···NO Complexes. Journal of Physical Chemistry A, 2009, 113, 14595-14605.	2.5	3
96	Integration of ligand and structure-based virtual screening for identification of leading anabolic steroids. Journal of Steroid Biochemistry and Molecular Biology, 2013, 138, 348-358.	2.5	3
97	Electron spin resonance and ab initio studies on the cation—semidione interaction. Journal of Molecular Structure, 1992, 269, 163-174.	3.6	2
98	DFT study of the electronic structure and Jahn-Teller effect of tetrabromomethane cation. International Journal of Quantum Chemistry, 2003, 91, 414-417.	2.0	2
99	Molecular Schrödinger–Riccati Calculations: The Potential Energy Curve of the Hydrogen Molecule. Journal of Mathematical Chemistry, 2005, 38, 565-573.	1.5	2
100	Estimates of non-relativistic atomic and correlation energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 279-284.	1.5	2
101	On the molecular electron structure of three phosphinine-containing macrocycles. Journal of Computational Chemistry, 2007, 28, 958-966.	3.3	2
102	Molecular modeling of porphyrin-based conjugates and subphthalocyanine aggregates. Journal of Porphyrins and Phthalocyanines, 2009, 13, 494-508.	0.8	2
103	Interaction of brassinolide with essential amino acid residues: A theoretical approach. Journal of Molecular Graphics and Modelling, 2010, 28, 604-611.	2.4	2
104	Complexes of nitric oxide with water and imidazole. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	2
105	Computational approaches to amino acid side-chain conformation using combined NMR theoretical and experimental results: leucine-67 in <i>Desulfovibrio vulgaris</i> flavodoxin. Briefings in Bioinformatics, 2021, 22, .	6.5	2
106	Electronic structure of CH3OH+. Restricted hartree–fock calculations of the first two states. Journal of the Chemical Society, Faraday Transactions 2, 1984, 80, 1269-1272.	1.1	1
107	Dissociation of piethanol ion. Computational and Theoretical Chemistry, 1984, 107, 133-138.	1.5	1
108	Theoretical approach to the conformational and configurational stability of α-sulphinyl carbanions derived from 1,4-oxathiane S-oxides. Journal of the Chemical Society Perkin Transactions II, 1988, , 1573-1577.	0.9	1

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109	Theoretical advances on coefficients of relational agreement: application to cheminformatics as <i>k</i> â€way biomolecular similarity measures. Journal of Chemometrics, 2013, 27, 420-430.	1.3	1
110	Dynamics of the O + ClO Reaction: Reactive and Vibrational Relaxation Processes. Journal of Physical Chemistry A, 2014, 118, 12120-12129.	2.5	1
111	Similarity measures between excited singlet and triplet electron densities in linear acenes: an application to singlet fission. Molecular Physics, 2016, 114, 3650-3657.	1.7	1
112	Toward a Computational NMR Procedure for Modeling Dipeptide Side-Chain Conformation. Journal of Chemical Information and Modeling, 2021, 61, 6012-6023.	5.4	1
113	Searching conformational analysis of Asp residues through theoretical <scp> ³ J </scp> vicinal coupling constants and Karplus equations. International Journal of Quantum Chemistry, 0, , .	2.0	1
114	Possible sources of error in the computer simulation of protein structures and interactions. Theoretical and Computational Chemistry, 1999, , 655-663.	0.4	0
115	Accurate atomic momentum integrals and Compton profiles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 54, 025003.	1.5	Ο