

Pavel Hobza

List of Publications by Year in descending order

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546
papers

52,123
citations

1294

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docs citations

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times ranked

28914
citing authors

#	ARTICLE	IF	CITATIONS
1	The unusual stability of Hâ€bonded complexes in solvent caused by greater solvation energy of complex compared to those of isolated fragments. <i>Journal of Computational Chemistry</i> , 2023, 44, 329-333.	1.5	3
2	P-Doped grapheneâ€C₆₀ nanocomposite: a donorâ€acceptor complex with a Pâ€C dative bond. <i>Chemical Communications</i> , 2022, 58, 1045-1048.	2.2	4
3	The stability of covalent dative bond significantly increases with increasing solvent polarity. <i>Nature Communications</i> , 2022, 13, 2107.	5.8	13
4	The Existence of a Nâ†'C Dative Bond in the C 60 â€Piperidine Complex. <i>Angewandte Chemie</i> , 2021, 133, 1970-1978.	1.6	4
5	The Existence of a Nâ†'C Dative Bond in the C₆₀â€Piperidine Complex. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1942-1950.	7.2	15
6	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021, 107, 104548.	2.0	3
7	Tuning the Pâ€C dative/covalent bond formation in R₃Pâ€C₆₀ complexes by changing the R group. <i>Chemical Communications</i> , 2021, 57, 3363-3366.	2.2	3
8	Structure-directed formation of the dative/covalent bonds in complexes with C₇₀â€piperidine. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4365-4375.	1.3	9
9	Cyclo[<i>n</i>]carbons Form Strong N â†' C Dative/Covalent Bonds with Piperidine. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2923-2931.	1.1	13
10	The Structure-Based Design of SARS-CoV-2 nsp14 Methyltransferase Ligands Yields Nanomolar Inhibitors. <i>ACS Infectious Diseases</i> , 2021, 7, 2214-2220.	1.8	57
11	Addition Reaction between Piperidine and C₆₀ to Form 1,4-Disubstituted C₆₀ Proceeds through van der Waals and Dative Bond Complexes: Theoretical and Experimental Study. <i>Journal of the American Chemical Society</i> , 2021, 143, 10930-10939.	6.6	6
12	Azobenzene-Iron(III)porphyrin Hybrid Composite as a Light-Driven Molecular Spin Regulator: Some Promising Insights from DFT. <i>Chemistry of Materials</i> , 2021, 33, 8786-8799.	3.2	4
13	Real-space imaging of anisotropic charge of ĩf-hole by means of Kelvin probe force microscopy. <i>Science</i> , 2021, 374, 863-867.	6.0	71
14	Spin modification of iron(<sc>ii</sc>) complexes <i>via</i> covalent (dative) and dispersion guided non-covalent bonding with N-heterocyclic carbenes: DFT, DLPNO-CCSD(T) and MCSCF studies. <i>Dalton Transactions</i> , 2020, 49, 164-170.	1.6	5
15	SQM/COSMO Scoring Function: Reliable Quantumâ€Mechanical Tool for Sampling and Ranking in Structureâ€Based Drug Design. <i>ChemPlusChem</i> , 2020, 85, 2361-2361.	1.3	4
16	Ground state of the Fe(<sc>ii</sc>)-porphyrin model system corresponds to quintet: a DFT and DMRG-based tailored CC study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17033-17037.	1.3	11
17	Directly linked metalloporphyrins: a quest for bio-inspired materials. <i>Materials Advances</i> , 2020, 1, 1895-1908.	2.6	4
18	Chelatingâ€Polymers for Hereditary Hemochromatosis Treatment. <i>Macromolecular Bioscience</i> , 2020, 20, 2000254.	2.1	5

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19	Benchmark Data Sets of Boron Cluster Dihydrogen Bonding for the Validation of Approximate Computational Methods. <i>ChemPhysChem</i> , 2020, 21, 2599-2604.	1.0	4
20	SQM/COSMO Scoring Function: Reliable Quantum-Mechanical Tool for Sampling and Ranking in Structure-Based Drug Design. <i>ChemPlusChem</i> , 2020, 85, 2362-2371.	1.3	12
21	Optimization of norbornyl-based carbocyclic nucleoside analogs as cyclin-dependent kinase 2 inhibitors. <i>Journal of Molecular Recognition</i> , 2020, 33, e2842.	1.1	2
22	Mechanical force-induced manipulation of electronic conductance in a spin-crossover complex: a simple approach to molecular electronics. <i>Nanoscale Advances</i> , 2020, 2, 2907-2913.	2.2	11
23	Chalcogen Bonding due to the Exo-Substitution of Icosahedral Dicarborane. <i>Molecules</i> , 2019, 24, 2657.	1.7	6
24	Impressive Enrichment of Semiempirical Quantum Mechanics-Based Scoring Function: HSP90 Protein with 4541 Inhibitors and Decoys. <i>ChemPhysChem</i> , 2019, 20, 2721-2721.	1.0	3
25	Impressive Enrichment of Semiempirical Quantum Mechanics-Based Scoring Function: HSP90 Protein with 4541 Inhibitors and Decoys. <i>ChemPhysChem</i> , 2019, 20, 2759-2766.	1.0	11
26	Spin Crossover in Iron(II) Porphyrine Induced by Noncovalent Interactions Combined with Hybridization of Iron(II) Porphyrine and Ligand's Orbitals: CASPT2, CCSD(T), and DFT Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23186-23194.	1.5	5
27	Mutations at hypothetical binding site 2 in insulin and insulin-like growth factors 1 and 2 result in receptor- and hormone-specific responses. <i>Journal of Biological Chemistry</i> , 2019, 294, 17371-17382.	1.6	21
28	Structure and Properties of Double-Sandwich Complexes at the Graphene Surface: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14712-14724.	1.5	4
29	Computational Approach To Understand the Adsorption Behavior of Iron(II) Phthalocyanine on the Doped Graphene Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6717-6724.	1.5	8
30	Nature of Binding in Planar Halogen-Benzene Assemblies and Their Possible Visualization in Scanning Probe Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8379-8386.	1.5	6
31	Imidazo[1,2-a]pyrimidin-5(6H)-one as a novel core of cyclin-dependent kinase 2 inhibitors: Synthesis, activity measurement, docking, and quantum mechanical scoring. <i>Journal of Molecular Recognition</i> , 2018, 31, e2720.	1.1	10
32	Ranking Power of the SQM/COSMO Scoring Function on Carbonic Anhydrase-Inhibitor Complexes. <i>ChemPhysChem</i> , 2018, 19, 873-879.	1.0	29
33	Various types of non-covalent interactions contributing towards crystal packing of halogenated diphospha-dicarborane with an open pentagonal belt. <i>New Journal of Chemistry</i> , 2018, 42, 10481-10483.	1.4	1
34	Sequential BN-doping induced tuning of electronic properties in zigzag-edged graphene nanoribbons: a computational approach. <i>RSC Advances</i> , 2018, 8, 10964-10974.	1.7	3
35	The role of the π -holes in stability of non-bonded chalcogenide-benzene interactions: the ground and excited states. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 299-306.	1.3	10
36	S-N chalcogen bonded complexes of carbon disulfide with diazines. Theoretical study. <i>Chemical Physics</i> , 2018, 500, 37-44.	0.9	12

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37	Understanding the non-covalent interaction mediated modulations on the electronic structure of quasi-zero-dimensional graphene nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18718-18728.	1.3	2
38	Interface Interactions of the Bowmanâ€™Birk Inhibitor BTCl in a Ternary Complex with Trypsin and Chymotrypsin Evaluated by Semiempirical Quantum Mechanical Calculations. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5203-5211.	1.2	5
39	Non-covalent control of spin-state in metal-organic complex by positioning on N-doped graphene. <i>Nature Communications</i> , 2018, 9, 2831.	5.8	68
40	An Isolated Molecule of Iron(II) Phthalocyanin Exhibits Quintet Groundâ€™State: A Nexus between Theory and Experiment. <i>Chemistry - A European Journal</i> , 2018, 24, 13413-13417.	1.7	12
41	Comparison of the DFT-SAPT and Canonical EDA Schemes for the Energy Decomposition of Various Types of Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3440-3450.	2.3	74
42	Adsorption of Organic Molecules to van der Waals Materials: Comparison of Fluorographene and Fluorographite with Graphene and Graphite. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1328-1340.	2.3	47
43	SQM/COSMO Scoring Function at the DFTB3-D3H4 Level: Unique Identification of Native Proteinâ€™Ligand Poses. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 127-132.	2.5	40
44	Structural Basis of the Interaction of Cyclinâ€™Dependent Kinaseâ€™...2 with Roscovitine and Its Analogues Having Bioisosteric Central Heterocycles. <i>ChemPhysChem</i> , 2017, 18, 785-795.	1.0	14
45	Unraveling the Structureâ€™Affinity Relationship between Cucurbit[<i>n</i>]urils (<i>n</i> = 7, 8) and Cationic Diamondoids. <i>Journal of the American Chemical Society</i> , 2017, 139, 3249-3258.	6.6	66
46	Binary twinned-icosahedral [B ₂₁ H ₁₈] ⁺ interacts with cyclodextrins as a precedent for its complexation with other organic motifs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11748-11752.	1.3	26
47	Bâ€™Hâ€™: a nonclassical hydrogen bond or dispersion contact?. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18194-18200.	1.3	32
48	Noncovalent Interactions in Specific Recognition Motifs of Proteinâ€™DNA Complexes. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 877-885.	2.3	22
49	Explicit treatment of active-site waters enhances quantum mechanical/implicit solvent scoring: Inhibition of CDK2 by new pyrazolo[1,5-a]pyrimidines. <i>European Journal of Medicinal Chemistry</i> , 2017, 126, 1118-1128.	2.6	32
50	Pnictogen bonding in pyrazineâ€™PnX ₅ (Pn = P, As, Sb and X = F, Cl, Br) complexes. <i>Journal of Molecular Modeling</i> , 2017, 23, 328.	0.8	18
51	Understanding the spin-dependent electronic properties of symmetrically far-edge doped zigzag graphene nanoribbon from a first principles study. <i>RSC Advances</i> , 2017, 7, 46604-46614.	1.7	10
52	Selective binding of choline by a phosphate-coordination-based triple helicate featuring an aromatic box. <i>Nature Communications</i> , 2017, 8, 938.	5.8	56
53	Superior Performance of the SQM/COSMO Scoring Functions in Native Pose Recognition of Diverse Proteinâ€™Ligand Complexes in Cognate Docking. <i>ACS Omega</i> , 2017, 2, 4022-4029.	1.6	22
54	Non-covalent interactions in anisoleâ€™(CO ₂) _n (n = 1, 2) complexes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22749-22758.	1.3	3

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55	The Interplay between Various π - and σ -Hole Interactions of Trigonal Boron and Trigonal Pyramidal Arsenic Triiodides. <i>Crystals</i> , 2017, 7, 225.	1.0	6
56	IDD388 Polyhalogenated Derivatives as Probes for an Improved Structure-Based Selectivity of AKR1B10 Inhibitors. <i>ACS Chemical Biology</i> , 2016, 11, 2693-2705.	1.6	19
57	Experimental and Theoretical Study for the Assessment of the Conformational Stability of Polymethylene-Bridged Heteroaromatic Dimers: A Case of Unprecedented Folding. <i>Crystal Growth and Design</i> , 2016, 16, 1176-1180.	1.4	9
58	Introduction: Noncovalent Interactions. <i>Chemical Reviews</i> , 2016, 116, 4911-4912.	23.0	116
59	Competition between Halogen, Hydrogen and Dihydrogen Bonding in Brominated Carboranes. <i>ChemPhysChem</i> , 2016, 17, 3373-3376.	1.0	40
60	A Nexus between Theory and Experiment: Non-Empirical Quantum Mechanical Computational Methodology Applied to Cucurbit[<i>n</i>]uril...Guest Binding Interactions. <i>Chemistry - A European Journal</i> , 2016, 22, 17226-17238.	1.7	29
61	Ab initio and DFT studies of the interaction between carbonyl and thiocarbonyl groups: the role of S...O chalcogen bonds. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	13
62	The SQM/COSMO filter: reliable native pose identification based on the quantum-mechanical description of protein-ligand interactions and implicit COSMO solvation. <i>Chemical Communications</i> , 2016, 52, 3312-3315.	2.2	55
63	Computational methods for the description of pharmacologically relevant platinum complexes - molecular structure and bond dissociation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4051-4062.	1.3	4
64	Computer Modeling of Halogen Bonds and Other π -Hole Interactions. <i>Chemical Reviews</i> , 2016, 116, 5155-5187.	23.0	537
65	On the nature of the stabilisation of the π -pnictogen bond in the SbCl_3 -toluene complex. <i>Chemical Communications</i> , 2016, 52, 3500-3503.	2.2	39
66	Benchmark Calculations of Interaction Energies in Noncovalent Complexes and Their Applications. <i>Chemical Reviews</i> , 2016, 116, 5038-5071.	23.0	346
67	New Insight into the Nature of Bonding in the Dimers of Lappert's Stannylene and Its Ge Analogs: A Quantum Mechanical Study. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1696-1704.	2.3	16
68	The non-planarity of the benzene molecule in the X-ray structure of the chelated bismuth(III) heteroboroxine complex is not supported by quantum mechanical calculations. <i>Dalton Transactions</i> , 2016, 45, 462-465.	1.6	10
69	Binding Energies of the π -Stacked Anisole Dimer: New Molecular Beam-Laser Spectroscopy Experiments and CCSD(T) Calculations. <i>Chemistry - A European Journal</i> , 2015, 21, 6637-6637.	1.7	3
70	Halogen bonding origin properties and applications. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
71	Interactions of model biomolecules. Benchmark CC calculations within MOLCAS. , 2015, , .		0
72	From Dibismuthenes to Three- and Two-Coordinated Bismuthinidenes by Fine Ligand Tuning: Evidence for Aromatic Bi_3N Rings through a Combined Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2015, 21, 16917-16928.	1.7	76

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73	Noncovalent Interactions of Heteroboranes. Challenges and Advances in Computational Chemistry and Physics, 2015, , 219-239.	0.6	4
74	Chalcogen and Pnictogen Bonds in Complexes of Neutral Icosahedral and Bicapped Square-Antiprismatic Heteroboranes. Journal of Physical Chemistry A, 2015, 119, 1388-1395.	1.1	39
75	Binding Energies of the "Stacked Anisole Dimer: New Molecular Beam" Laser Spectroscopy Experiments and CCSD(T) Calculations. Chemistry - A European Journal, 2015, 21, 6740-6746.	1.7	18
76	Representative Amino Acid Side-Chain Interactions in Protein-DNA Complexes: A Comparison of Highly Accurate Correlated <i>Ab Initio</i> Quantum Mechanical Calculations and Efficient Approaches for Applications to Large Systems. Journal of Chemical Theory and Computation, 2015, 11, 4086-4092.	2.3	22
77	The properties of substituted 3D-aromatic neutral carboranes: the potential for π -hole bonding. Physical Chemistry Chemical Physics, 2015, 17, 20814-20821.	1.3	26
78	Insights into Stability and Folding of GNRA and UNCG Tetraloops Revealed by Microsecond Molecular Dynamics and Well-Tempered Metadynamics. Journal of Chemical Theory and Computation, 2015, 11, 3866-3877.	2.3	60
79	Benchmark Calculations of Three-Body Intermolecular Interactions and the Performance of Low-Cost Electronic Structure Methods. Journal of Chemical Theory and Computation, 2015, 11, 3065-3079.	2.3	87
80	Extensions and applications of the A24 data set of accurate interaction energies. Physical Chemistry Chemical Physics, 2015, 17, 19268-19277.	1.3	50
81	Structure and energetics of the anisole-Ar _n (n = 1, 2, 3) complexes: high-resolution resonant two-photon and threshold ionization experiments, and quantum chemical calculations. Physical Chemistry Chemical Physics, 2015, 17, 12530-12537.	1.3	8
82	The Effect of Halogen-to-Hydrogen Bond Substitution on Human Aldose Reductase Inhibition. ACS Chemical Biology, 2015, 10, 1637-1642.	1.6	45
83	Influence of hydrophobic residues on the binding of CB[7] toward diammonium ions of common ammonium-ammonium distance. Organic and Biomolecular Chemistry, 2015, 13, 6249-6254.	1.5	18
84	Large-Scale Quantitative Assessment of Binding Preferences in Protein-Nucleic Acid Complexes. Journal of Chemical Theory and Computation, 2015, 11, 1939-1948.	2.3	12
85	A comparison of <i>ab initio</i> quantum-mechanical and experimental D_{00} binding energies of eleven H-bonded and eleven dispersion-bound complexes. Physical Chemistry Chemical Physics, 2015, 17, 26645-26652.	1.3	16
86	Polar Flattening and the Strength of Halogen Bonding. Journal of Chemical Theory and Computation, 2015, 11, 4727-4732.	2.3	56
87	Malonate-based inhibitors of mammalian serine racemase: Kinetic characterization and structure-based computational study. European Journal of Medicinal Chemistry, 2015, 89, 189-197.	2.6	49
88	Carborane-Based Carbonic Anhydrase Inhibitors: Insight into CAII/CAIX Specificity from a High-Resolution Crystal Structure, Modeling, and Quantum Chemical Calculations. BioMed Research International, 2014, 2014, 1-9.	0.9	18
89	The Dominant Role of Chalcogen Bonding in the Crystal Packing of 2D/3D Aromatics. Angewandte Chemie, 2014, 126, 10303-10306.	1.6	26
90	Characteristics of a π -Hole and the Nature of a Halogen Bond. Topics in Current Chemistry, 2014, 359, 1-25.	4.0	19

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91	On the origin of the substantial stabilisation of the electron-donor 1,3-dithiole-2-thione-4-carboxylic acid ²⁻ and DABCO ²⁺ complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6679-6686.	1.3	31
92	Statistical analysis of σ -holes: a novel complementary view on halogen bonding. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19111-19114.	1.3	23
93	Selective induced polarization through electron transfer in acetone and pyrazole ester derivatives via C=O \cdots H interaction. <i>New Journal of Chemistry</i> , 2014, 38, 4885-4892.	1.4	10
94	The strength and directionality of a halogen bond are co-determined by the magnitude and size of the σ -hole. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9987-9996.	1.3	131
95	Halogen bonds in crystal TTF derivatives: an ab initio quantum mechanical study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2038-2047.	1.3	46
96	Quantum Monte Carlo for noncovalent interactions: an efficient protocol attaining benchmark accuracy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20915-20923.	1.3	46
97	Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19115-19121.	1.3	15
98	The nature of bonding and electronic properties of graphene and benzene with iridium adatoms. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20818-20827.	1.3	10
99	The Dominant Role of Chalcogen Bonding in the Crystal Packing of 2D/3D Aromatics. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10139-10142.	7.2	124
100	Ab Initio Quantum Mechanical Description of Noncovalent Interactions at Its Limits: Approaching the Experimental Dissociation Energy of the HF Dimer. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3066-3073.	2.3	39
101	Theoretical insight into the stabilization of triazole fungicides via their interactions with dications. <i>International Journal of Mass Spectrometry</i> , 2014, 359, 38-43.	0.7	12
102	Why Is the L-Shaped Structure of X ₂ \cdots H \cdots H \cdots X ₂ (X = F, Cl, Br, I) Complexes More Stable Than Other Structures?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3846-3855.	1.1	21
103	The Dominant Role of Chalcogen Bonding in the Crystal Packing of 2D/3D Aromatics. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10139-10142.	7.2	1
104	On the Importance and Origin of Aromatic Interactions in Chemistry and Biodisciplines. <i>Accounts of Chemical Research</i> , 2013, 46, 927-936.	7.6	206
105	Convergence of the Interaction Energies in Noncovalent Complexes in the Coupled-Cluster Methods Up to Full Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3420-3428.	2.3	34
106	Accuracy of Quantum Chemical Methods for Large Noncovalent Complexes. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3364-3374.	2.3	275
107	The relative roles of electrostatics and dispersion in the stabilization of halogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17742.	1.3	129
108	Competition between halogen, dihalogen and hydrogen bonds in bromo- and iodomethanol dimers. <i>Journal of Molecular Modeling</i> , 2013, 19, 2879-2883.	0.8	18

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109	Quantum Mechanical Scoring: Structural and Energetic Insights into Cyclin-Dependent Kinase 2 Inhibition by Pyrazolo[1,5-a]pyrimidines. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 118-129.	0.8	5
110	Off-Center Gaussian Functions, an Alternative Atomic Orbital Basis Set for Accurate Noncovalent Interaction Calculations of Large Systems. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5296-5304.	2.3	7
111	Quantum Mechanics-Based Scoring Rationalizes the Irreversible Inactivation of Parasitic <i>Schistosoma mansoni</i> Cysteine Peptidase by Vinyl Sulfone Inhibitors. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14973-14982.	1.2	43
112	QM/MM Calculations Reveal the Different Nature of the Interaction of Two Carborane-Based Sulfamide Inhibitors of Human Carbonic Anhydrase II. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16096-16104.	1.2	47
113	CCSD[T] Describes Noncovalent Interactions Better than the CCSD(T), CCSD(TQ), and CCSDT Methods. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 364-369.	2.3	68
114	Modulation of Aldose Reductase Inhibition by Halogen Bond Tuning. <i>ACS Chemical Biology</i> , 2013, 8, 2484-2492.	1.6	85
115	Quantum Monte Carlo Methods Describe Noncovalent Interactions with Subchemical Accuracy. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4287-4292.	2.3	88
116	On the nature of unusual intensity changes in the infrared spectra of the enflurane-acetone complexes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6001.	1.3	14
117	Plugging the explicit <i>f</i> -holes in molecular docking. <i>Chemical Communications</i> , 2013, 49, 981-983.	2.2	72
118	Spin-Crossing in an Organometallic Pt-Benzene Complex. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1461-1468.	2.3	19
119	Basis Set Dependence of Interaction Energies Computed Using Composite Post-MP2 Methods. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 330-337.	2.3	12
120	The Semiempirical Quantum Mechanical Scoring Function for In Silico Drug Design. <i>ChemPlusChem</i> , 2013, 78, 921-931.	1.3	80
121	Assessing the Accuracy and Performance of Implicit Solvent Models for Drug Molecules: Conformational Ensemble Approaches. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5950-5962.	1.2	60
122	Quantification of the Interaction Forces between Metals and Graphene by Quantum Chemical Calculations and Dynamic Force Measurements under Ambient Conditions. <i>ACS Nano</i> , 2013, 7, 1646-1651.	7.3	73
123	On the Association of the Base Pairs on the Silica Surface Based on Free Energy Biased Molecular Dynamics Simulation and Quantum Mechanical Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11066-11075.	1.5	10
124	Differences in the Sublimation Energy of Benzene and Hexahalogenbenzenes Are Caused by Dispersion Energy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4331-4337.	1.1	20
125	MP2.5 and MP2.X: Approaching CCSD(T) Quality Description of Noncovalent Interaction at the Cost of a Single CCSD Iteration. <i>ChemPhysChem</i> , 2013, 14, 698-707.	1.0	69
126	Describing Noncovalent Interactions beyond the Common Approximations: How Accurate Is the "Gold Standard," CCSD(T) at the Complete Basis Set Limit?. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2151-2155.	2.3	365

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127	On the performance of the semiempirical quantum mechanical PM6 and PM7 methods for noncovalent interactions. <i>Chemical Physics Letters</i> , 2013, 568-569, 161-166.	1.2	115
128	Quantum Mechanical Scoring: Structural and Energetic Insights into Cyclin-Dependent Kinase 2 Inhibition by Pyrazolo[1,5-a]pyrimidines. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 118-129.	0.8	52
129	Advanced Corrections of Hydrogen Bonding and Dispersion for Semiempirical Quantum Mechanical Methods. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 141-151.	2.3	429
130	Interaction of Graphene and Arenes with Noble Metals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14151-14162.	1.5	45
131	Assessment of the Performance of MP2 and MP2 Variants for the Treatment of Noncovalent Interactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4159-4169.	1.1	107
132	The performance of MP2.5 and MP2.X methods for nonequilibrium geometries of molecular complexes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13187.	1.3	20
133	Benchmark Calculations of Noncovalent Interactions of Halogenated Molecules. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4285-4292.	2.3	264
134	Functionalization of Graphene: Covalent and Non-Covalent Approaches, Derivatives and Applications. <i>Chemical Reviews</i> , 2012, 112, 6156-6214.	23.0	3,531
135	Adsorption of Organic Electron Acceptors on Graphene-like Molecules: Quantum Chemical and Molecular Mechanical Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25328-25336.	1.5	23
136	Highly correlated calculations using optimized virtual orbital space with controlled accuracy. Application to counterpoise corrected interaction energy calculations. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 948-959.	1.0	9
137	Accuracy of Several Wave Function and Density Functional Theory Methods for Description of Noncovalent Interaction of Saturated and Unsaturated Hydrocarbon Dimers. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2282-2292.	2.3	52
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