

# Malgorzata M Szczesniak

## List of Publications by Citations

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#	Paper	IF	Citations
134	Origins of Structure and Energetics of van der Waals Clusters from ab Initio Calculations. <i>Chemical Reviews</i> , <b>1994</b> , 94, 1723-1765	68.1	736
133	State of the Art and Challenges of the ab Initio Theory of Intermolecular Interactions. <i>Chemical Reviews</i> , <b>2000</b> , 100, 4227-4252	68.1	451
132	On the connection between the supermolecular Møller-Plesset treatment of the interaction energy and the perturbation theory of intermolecular forces. <i>Molecular Physics</i> , <b>1988</b> , 63, 205-224	1.7	291
131	Ab initio study of intermolecular potential of H <sub>2</sub> O trimer. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 2873-2883	3.9	138
130	Correction of the basis set superposition error in SCF and MP2 interaction energies. The water dimer. <i>Journal of Chemical Physics</i> , <b>1986</b> , 84, 6328-6335	3.9	124
129	Nonadditive effects in HF and HCl trimers. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 7048-7056	3.9	113
128	Calculations of nonadditive effects by means of supermolecular Møller-Plesset perturbation theory approach: Ar <sub>3</sub> and Ar <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 2481-2487	3.9	97
127	Ab initio study of the potential energy surface of CH <sub>4</sub> -H <sub>2</sub> O. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 3078-3089	3.9	95
126	Interactions between aromatic systems: dimers of benzene and s-tetrazine. <i>The Journal of Physical Chemistry</i> , <b>1984</b> , 88, 1726-1730		83
125	Intermolecular potential of the methane dimer and trimer. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 4243-4253	3.9	81
124	Theoretical study of H <sub>2</sub> O⋯F and H <sub>2</sub> O⋯Cl: Comparison with experiment. <i>Journal of Chemical Physics</i> , <b>1984</b> , 81, 5024-5030	3.9	79
123	On the role of bond functions in interaction energy calculations: Ar⋯HCl, Ar⋯H <sub>2</sub> O, (HF) <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 1498-1507	3.9	78
122	Ab initio study of the intermolecular potential of Ar⋯H <sub>2</sub> O. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 2807-2815	3.9	78
121	Analysis of the potential energy surface of Ar⋯H <sub>3</sub> . <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 7809-7817	3.9	74
120	Ab initio study of van der Waals interaction of CO <sub>2</sub> with Ar. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 6569-6576	3.9	67
119	The complex of N <sub>2</sub> with H <sub>2</sub> O, D <sub>2</sub> O, and HDO: A combined ab initio and diffusion Monte Carlo study. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 1378-1391	3.9	60
118	Møller-Plesset treatment of electron correlation effects in (HOHOH)⋯ <i>Journal of Chemical Physics</i> , <b>1982</b> , 77, 4586-4593	3.9	58

117	Ab initio study of intermolecular potential for ArHCl. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 6677-6685	3.9	57
116	Ab initio study of proton transfers including effects of electron correlation. <i>International Journal of Quantum Chemistry</i> , <b>1983</b> , 23, 739-751	2.1	56
115	Supermolecular approach to many-body dispersion interactions in weak van der Waals complexes: He, Ne, and Ar trimers. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 8860-8869	3.9	54
114	Optical absorption spectra of gold clusters Au(n) (n = 4, 6, 8, 12, 20) from long-range corrected functionals with optimal tuning. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 114302	3.9	52
113	Suppression of angular forces in collisions of non-S-state transition metal atoms. <i>Physical Review Letters</i> , <b>2005</b> , 94, 013202	7.4	51
112	Effects of external ions on the energetics of proton transfers across hydrogen bonds. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 262-266		49
111	Counterpoise-corrected geometries and harmonic frequencies of N-body clusters: Application to (HF) <sub>n</sub> (n=3,4). <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 537-549	3.9	46
110	Ab initio potential energy surface for the Ar(1S)+OH(X <sup>2</sup> ) interaction and bound rovibrational states. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 4952-4958	3.9	46
109	Partitioning of interaction energy in van der Waals complexes involving excited state species: The He(1S)+Cl <sub>2</sub> (B 3 $\Sigma$ ) interaction. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 10116-10127	3.9	46
108	The nonadditive interactions in the Ar <sub>2</sub> HF and Ar <sub>2</sub> HCl clusters: An ab initio study. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 6732-6741	3.9	46
107	Ab initio study of structure and cooperativity in ammonia-hydrogen fluoride-hydrogen fluoride and phosphine-hydrogen fluoride-hydrogen fluoride. <i>The Journal of Physical Chemistry</i> , <b>1986</b> , 90, 4253-4258		46
106	Potential energy surface for dispersion interaction in water dimer and hydrogen fluoride dimer. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 1781-1788		44
105	Ab initio potential energy and dipole moment surfaces, infrared spectra, and vibrational predissociation dynamics of the 35Cl <sub>2</sub> -H <sub>2</sub> /D <sub>2</sub> complexes. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 12931-12945	3.9	43
104	Ab initio calculations of adiabatic and diabatic potential energy surfaces of Cl(2P) $\cdots$ HCl(1 $\Sigma$ ) van der Waals complex. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 3085-3098	3.9	41
103	A three-dimensional potential energy surface for He+Cl <sub>2</sub> (B 3 $\Sigma$ <sup>+</sup> ): Ab initio calculations and a multiproperty fit. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 997-1007	3.9	41
102	Vibrational frequencies and intensities of H-bonded and Li-bonded complexes. H <sub>3</sub> N $\cdots$ HCl and H <sub>3</sub> N $\cdots$ LiCl. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 3131-3138	3.9	39
101	Symmetry-adapted perturbation theory based on unrestricted Kohn-Sham orbitals for high-spin open-shell van der Waals complexes. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 164104	3.9	38
100	Ab initio calculations of the interaction of He with the B 3 $\Sigma$ <sup>+</sup> state of Cl <sub>2</sub> as a function of the Cl <sub>2</sub> internuclear separation. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 2685-2694	3.9	37

99	Ab initio study of the van der Waals interaction of $\text{NH}(X 3\sigma)$ with $\text{Ar}(1S)$ . <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 3235-3242	3.9	37
98	Analysis of the intermolecular potential of $\text{Ar}\cdots\text{H}_4$ : An ab initio study. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 463-469	3.9	37
97	$\text{Rg}+\text{Cl}(2P)$ ( $\text{Rg}=\text{He, Ne, Ar}$ ) interactions: Ab initio potentials and collision properties. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 2144-2154	3.9	36
96	Intermolecular potential of $\text{H}_2\text{O}\cdots\text{H}_2$ in the van der Waals region. An ab initio study. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 6039-6047	3.9	36
95	Interaction potentials of the $\text{Rg}-\text{I}$ anions, neutrals, and cations ( $\text{Rg} = \text{He, Ne, Ar}$ ). <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 194311	3.9	35
94	Paradigm pre-reactive van der Waals complexes: $\text{X}\cdots\text{X}$ and $\text{X}\cdots\text{X}_2$ ( $\text{X} = \text{F, Cl, Br}$ ). <i>International Reviews in Physical Chemistry</i> , <b>2004</b> , 23, 541-571	7	35
93	Collision and transport properties of $\text{Rg}+\text{Cl}(2P)$ and $\text{Rg}+\text{Cl}(1S)$ ( $\text{Rg}=\text{Ar, Kr}$ ) from ab initio potentials. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 9919-9928	3.9	35
92	Ab initio study of the nonadditive effects in the trimer of ammonia. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 5169-5178	3.9	35
91	Aurophilic Interactions from Wave Function, Symmetry-Adapted Perturbation Theory, and Rangehybrid Approaches. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 2399-407	6.4	34
90	Ab initio study of the $\text{O}_2(X 3\sigma)+\text{He}(1S)$ van der Waals cluster. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 7997-8002	3.9	34
89	Studies of dispersion energy in hydrogen-bonded systems. $\text{H}_2\text{O}\cdots\text{OH}$ , $\text{H}_2\text{O}\cdots\text{F}$ , $\text{H}_3\text{N}\cdots\text{F}$ , $\text{HF}\cdots\text{F}$ . <i>Journal of Chemical Physics</i> , <b>1984</b> , 80, 1535-1542	3.9	34
88	Ab initio study of $\text{He}(1S)+\text{Cl}_2(X 1\sigma, 3\sigma)$ potential energy surfaces. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 6800-6809	3.9	33
87	Effects of external ions on the dynamics of proton transfer across a hydrogen bond. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 1835-1840		33
86	Diffuse basis functions for small-core relativistic pseudopotential basis sets and static dipole polarizabilities of selected lanthanides La, Sm, Eu, Tm and Yb. <i>Structural Chemistry</i> , <b>2007</b> , 18, 769-772	1.8	32
85	Density functional theory approach to noncovalent interactions via monomer polarization and Pauli blockade. <i>Physical Review Letters</i> , <b>2010</b> , 104, 163001	7.4	31
84	Ab initio based study of the $\text{ArO}^+$ photoelectron spectra: Selectivity of spin-orbit transitions. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 5852-5865	3.9	31
83	Ab initio study of nonadditive interactions in the $\text{Ar}_2\text{HF}$ and $\text{Ar}_2\text{HCl}$ clusters. II. Analysis of exchange and induction effects. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 10708-10716	3.9	30
82	Interactions of lanthanide atoms: Comparative ab initio study of $\text{YbHe}$ , $\text{Yb}_2$ and $\text{TmHe}$ , $\text{TmYb}$ potentials. <i>European Physical Journal D</i> , <b>2007</b> , 45, 147-153	1.3	28

81	Proton donor properties of water and ammonia in van der Waals complexes with rare-gas atoms. $\text{Kr}\cdots\text{H}_2\text{O}$ and $\text{Kr}\cdots\text{NH}_3$ . <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 8181-8187	3.9	28
80	Vibrational frequencies and intensities of H-bonded systems. 1:1 and 1:2 complexes of $\text{NH}_3$ and $\text{PH}_3$ with HF. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 2214-2224	3.9	28
79	Accurate evaluation of SCF and MP2 components of interaction energies. Complexes of HF, $\text{OH}_2$ , and $\text{NH}_3$ with $\text{Li}^+$ . <i>Collection of Czechoslovak Chemical Communications</i> , <b>1988</b> , 53, 2214-2229		26
78	Ab initio study of the $\text{O}_2(X^3\Sigma^-)+\text{Ar}(1S)$ van der Waals interaction. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 7731-7737	3.9	24
77	On the nature of the interaction energy in the $\text{Ar}\cdots\text{Cl}_2$ complex. <i>Computational and Theoretical Chemistry</i> , <b>1994</b> , 307, 187-199		24
76	SCF ab initio study of lithium-bonded complexes. <i>Chemical Physics Letters</i> , <b>1980</b> , 74, 243-247	2.5	24
75	van der Waals interactions and dipole polarizabilities of lanthanides: $\text{Tm}(2F)\cdots\text{He}$ and $\text{Yb}(1S)\cdots\text{He}$ potentials. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 114301	3.9	23
74	Ab initio study of the $\text{He}(1S)+\text{CH}(X^2\Sigma^-)$ interaction. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 9525-9535	3.9	23
73	Comment on "A possible definition of basis set superposition error" <i>Chemical Physics Letters</i> , <b>1995</b> , 241, 140-145	2.5	23
72	HF-HCl: stationary points on the scf energy hypersurface and thermodynamics of formation. <i>Chemical Physics Letters</i> , <b>1980</b> , 74, 248-251	2.5	23
71	Electronic structure and spin coupling of the manganese dimer: The state of the art of ab initio approach. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 024312	3.9	22
70	Towards an analytical three-body potential of $\text{Ar}_2\text{Cl}$ <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 299-308	3.9	22
69	On the nature of the interaction energy in the $\text{Ar}\cdots\text{IF}$ complex. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 3700-3706	3.9	22
68	Derivation of the supermolecular interaction energy from the monomer densities in the density functional theory. <i>Chemical Physics Letters</i> , <b>2010</b> , 486, 160-165	2.5	20
67	The effect of two- and three-body interactions in $\text{Ar}_n\text{CO}_2$ ( $n=1,2$ ) on the asymmetric stretching $\text{CO}_2$ coordinate: An ab initio study. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 10215-10221	3.9	20
66	Origins and modeling of many-body exchange effects in van der Waals clusters. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 3301-3310	3.9	20
65	Interactions of transition metal atoms with He. <i>European Physical Journal D</i> , <b>2004</b> , 31, 429-437	1.3	20
64	Ab initio zero electron kinetic energy spectroscopy of the $\text{ArCl}^-$ and $\text{KrCl}^-$ anions. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 9929-9937	3.9	20

63	Dynamics of O(3Pj)+Rg collisions on ab initio and scattering potentials. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1457-1467	3.9	20
62	Studies on the lithium bond. <i>Chemical Physics Letters</i> , <b>1976</b> , 44, 465-467	2.5	20
61	Density-dependent onset of the long-range exchange: a key to donor-acceptor properties. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 11580-6	2.8	18
60	Theoretical vibrational study of the F <sub>x</sub> O(CH <sub>3</sub> ) <sub>2</sub> hydrogen-bonded complex. <i>Journal of Chemical Physics</i> , <b>1988</b> , 88, 4861-4866	3.9	18
59	Theoretical studies of lithium bonding in lithium chloride/aliphatic amine complexes. <i>Chemical Physics</i> , <b>1985</b> , 94, 55-63	2.3	18
58	Range-Separated meta-GGA Functional Designed for Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 4297-306	6.4	17
57	Helium atom as a probe of molecular shape and properties: He?H <sub>2</sub> O complex. <i>Journal of Molecular Structure</i> , <b>1993</b> , 297, 313-325	3.4	17
56	Contribution of dispersion to the properties of H <sub>2</sub> S--HF and H <sub>2</sub> S--HCl. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 1778-1783	3.9	17
55	Properties of strong hydrogen-bonded systems. II. Ab initioSCF-MO study of the hydrogen bond between nitric acid and ammonia. <i>Journal of Computational Chemistry</i> , <b>1980</b> , 1, 417-419	3.5	17
54	HF-ClF: minima on the 4-31G and 4-31G* energy hypersurfaces and thermodynamics of formation. <i>Chemical Physics Letters</i> , <b>1981</b> , 82, 469-472	2.5	17
53	Interaction potentials for Br(-)-Rg (Rg=He-Rn): spectroscopy and transport coefficients. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 64305	3.9	16
52	Modeling of adiabatic and diabatic potential energy surfaces of Cl(2P) <sub>2</sub> H <sub>2</sub> (1 $\bar{g}$ +) prereactive complex from ab initio calculations. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 4709-4719	3.9	16
51	Effect of secondary basis-set superposition error upon calculated vibrational intensities. <i>Chemical Physics Letters</i> , <b>1986</b> , 131, 230-236	2.5	16
50	Nonadditive interactions in ns <sup>2</sup> and spin-polarized ns metal atom trimers. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 134302	3.9	15
49	Ab initio simulations of the KrO <sub>2</sub> anion photoelectron spectra. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 2629-2634	3.9	15
48	Ab initio long-range interaction and adiabatic channel capture model for ultracold reactions between the KRb molecules. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 114305	3.9	14
47	Ar?C <sub>2</sub> H <sub>2</sub> : a challenging system for ab initio calculations. <i>Journal of Molecular Structure</i> , <b>1997</b> , 436-437, 387-400	3.4	14
46	The methylation effect in amine...HF hydrogen-bonded systems. Quantum chemical and statistical thermodynamic study. <i>The Journal of Physical Chemistry</i> , <b>1984</b> , 88, 5923-5927		14

45	Assessment of Newest Meta-GGA Hybrids for Late Transition Metal Reactivity: Fractional Charge and Fractional Spin Perspective. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8047-8056	3.8	14
44	The nature of three-body interactions in DFT: Exchange and polarization effects. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 084106	3.9	13
43	Tuned range-separated hybrid functionals in the symmetry-adapted perturbation theory. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 134120	3.9	13
42	Ab initio study of Tm-He interactions and dynamics in a magnetic trap. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	13
41	Interactions of transition metal atoms in high-spin states: Cr <sub>2</sub> , Sc-Cr, and Sc-Kr. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 244302	3.9	13
40	Ab initio calculations on the lithium fluoride-ethylene complex. <i>Journal of Chemical Physics</i> , <b>1977</b> , 67, 5400-5401	3.9	13
39	Properties of strong hydrogen-bonded systems. <i>Chemical Physics Letters</i> , <b>1980</b> , 72, 115-118	2.5	12
38	Density functional theory approach to gold-ligand interactions: separating true effects from artifacts. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 244313	3.9	11
37	Ab initio calculations and modeling of three-dimensional adiabatic and diabatic potential energy surfaces of F(2P)-H <sub>2</sub> (1 $\Sigma$ ) Van der Waals complex. <i>International Journal of Quantum Chemistry</i> , <b>2002</b> , 90, 1038-1048	2.1	11
36	Hydrogen bonding of water, hydrogen sulphide and related acceptors with electron donors. <i>Journal of Molecular Structure</i> , <b>1976</b> , 30, 271-290	3.4	11
35	Europium dimer: van der Waals molecule with extremely weak antiferromagnetic spin coupling. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 241102	3.9	10
34	From Intermolecular Interactions to Incipient Chemical Bond. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1998</b> , 63, 1473-1484		10
33	Ab initio study of the H <sub>2</sub> CO-Ar complex. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 5211-5218	3.9	10
32	Employing Range Separation on the meta-GGA Rung: New Functional Suitable for Both Covalent and Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3662-73	6.4	9
31	Dispersion-free component of non-covalent interaction via mutual polarization of fragment densities. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 204109	3.9	8
30	Characterization of ArnO <sup>-</sup> clusters from ab initio and diffusion Monte Carlo calculations. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 2748	3.9	8
29	Study of ArO <sup>-</sup> and ArO via slow photoelectron velocity-map imaging spectroscopy and Ab initio calculations. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 4631-8	2.8	7
28	Study of KrO <sup>-</sup> and KrO via slow photoelectron velocity-map imaging spectroscopy and ab initio calculations. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 14439-46	2.8	7

27	Interactions in open-shell clusters: ab initio study of pre-reactive complex O(3P) + HCl. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 11484-94	2.8	7
26	Ab Initio Calculations and Modeling of Three-Dimensional Adiabatic and Diabatic Potential Energy Surfaces of Br(2P)⋯H <sub>2</sub> (1 $\Sigma$ ) Pre-Reactive Complex. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 7362-7368	2.8	7
25	Structure and energetics of ArnNO $\Sigma$ clusters from ab initio calculations. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 10895-10904	3.9	7
24	Search for simplified procedure for the evaluation of the Gibbs free energy of hydrogen-bond formation. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 2608-2614		7
23	A first-principles-based correlation functional for harmonious connection of short-range correlation and long-range dispersion. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 204121	3.9	6
22	Ab initio study of the Br(2P)-HBr van der Waals complex. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 184304	3.9	6
21	Many-body exchange effects in clusters of rare gases with a chromophore: He <sub>2</sub> CO <sub>2</sub> . <i>Chemical Physics</i> , <b>1998</b> , 239, 573-591	2.3	6
20	Modeling of the three-body effects in the Ar <sub>2</sub> O $\Sigma$ trimer from ab initio calculations. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 2731	3.9	6
19	Anisotropy of correlation effects in hydrogen-bonded systems: the HF dimer. <i>Chemical Physics Letters</i> , <b>1989</b> , 161, 532-538	2.5	6
18	On the Nature of Luminescence Thermochromism of Multinuclear Copper(I) Benzoate Complexes in the Crystalline State. <i>Crystals</i> , <b>2019</b> , 9, 36	2.3	5
17	A density functional theory approach to noncovalent interactions via interacting monomer densities. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 14686-92	3.6	5
16	Interactions and collisions of cold metal atoms in magnetic traps. <i>Physica Scripta</i> , <b>2009</b> , 80, 048109	2.6	5
15	Ab initio study of van der Waals interaction of formamide with a nonpolar partner. Ar $\Sigma$ H <sub>2</sub> NCOH complex. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 8213-8222	3.9	5
14	Noncovalent interactions determine the conformation of aurophilic complexes with 2-mercapto-4-methyl-5-thiazoleacetic acid ligands. <i>Dalton Transactions</i> , <b>2015</b> , 44, 13641-50	4.3	4
13	The nature of interactions between clusters of Mg and Zn with HCN from symmetry-adapted perturbation theory based of DFT. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 224704	3.9	4
12	Ab Initio Study of Nonadditive Effects in the (H <sub>2</sub> O) <sub>2</sub> ⋯H <sub>2</sub> Cluster. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 10875-10881		4
11	Theoretical prediction of the ArO $\Sigma$ anion ZEKE photoelectron spectrum. <i>Chemical Physics Letters</i> , <b>2001</b> , 347, 415-420	2.5	4
10	Proton-donor properties of water and ammonia in van der Waals complexes. Be $\Sigma$ 2O and Be $\Sigma$ H <sub>3</sub> . <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 7020-7028	3.9	4



9	Assessment of SAPT(DFT) with meta-GGA functionals. <i>Journal of Molecular Modeling</i> , <b>2020</b> , 26, 102	2	3
8	Interactions of ThO(X) with He, Ne and Ar from the ab initio coupled cluster and symmetry adapted perturbation theory calculations. <i>Chemical Physics</i> , <b>2012</b> , 399, 50-58	2.3	3
7	Structures and energies of the lithiated silanes. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1989</b> , 131-135		3
6	Nonadditivity of the SCF interaction energy in the (LiH) <sub>3</sub> complex. <i>International Journal of Quantum Chemistry</i> , <b>1980</b> , 17, 1069-1074	2.1	3
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4	Reassessing the Role of $\pi$ -Holes in Noncovalent Interactions: It is Pauli Repulsion that Counts.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 858946	5	2
3	Water Soluble Host-Guest Chemistry Involving Aromatic N-Oxides and Sulfonateresorcinarene. <i>Symmetry</i> , <b>2020</b> , 12, 1751	2.7	1
2	The nature of Van der Waals bond. <i>Theoretical and Computational Chemistry</i> , <b>1999</b> , 6, 665-699		1
1	Ab initio calculations and modeling of three-body forces in Ar <sub>2</sub> H <sub>2</sub> O. <i>International Journal of Quantum Chemistry</i> , <b>2002</b> , 90, 1215-1231	2.1	