

Robert W GÃ³ra

List of Publications by Year in descending order

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69
papers

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citations

304368

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73
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced waterâ€“chromophore electron transfer causes formation of guanosine photodamage. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8217-8224.	1.3	3
2	Stereoselectivity Enhancement During the Generation of Three Contiguous Stereocenters in Tetrahydrothiophenes. <i>ChemCatChem</i> , 2021, 13, 574-580.	1.8	6
3	Ultrafast nonradiative deactivation of photoexcited 8-oxo-hypoxanthine: a nonadiabatic molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1234-1241.	1.3	3
4	An effective potential for Frenkel excitons. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1923-1935.	1.3	2
5	Ribose Alters the Photochemical Properties of the Nucleobase in Thionated Nucleosides. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6707-6713.	2.1	5
6	Ab initio effective <sc>oneâ€“electron</sc> potential operators: Applications for <sc>chargeâ€“transfer</sc> energy in effective fragment potentials. <i>Journal of Computational Chemistry</i> , 2021, 42, 398-411.	1.5	2
7	UV-induced hydrogen transfer in DNA base pairs promoted by dark nâ€“* states. <i>Chemical Communications</i> , 2020, 56, 201-204.	2.2	6
8	Selective prebiotic formation of RNA pyrimidine and DNA purine nucleosides. <i>Nature</i> , 2020, 582, 60-66.	13.7	106
9	Partitioning of interaction-induced nonlinear optical properties of molecular complexes. II. Halogen-bonded systems. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4225-4234.	1.3	8
10	Applications of Thermal Activation, Ballâ€“milling and Aqueous Medium in Stereoselective Michael Addition of Nitromethane to Enynes Catalyzed by Chiral Squaramides. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1108-1116.	2.1	18
11	Photostability of oxazoline RNA-precursors in UV-rich prebiotic environments. <i>Chemical Communications</i> , 2018, 54, 13407-13410.	2.2	11
12	Molecules in confinement in liquid solvents: general discussion. <i>Faraday Discussions</i> , 2018, 212, 383-397.	1.6	1
13	Electron-driven proton transfer enables nonradiative photodeactivation in microhydrated 2-aminoimidazole. <i>Faraday Discussions</i> , 2018, 212, 345-358.	1.6	3
14	Solvation effects alter the photochemistry of 2-thiocytosine. <i>Chemical Physics</i> , 2018, 515, 502-508.	0.9	13
15	Partitioning of interaction-induced nonlinear optical properties of molecular complexes. I. Hydrogen-bonded systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19841-19849.	1.3	12
16	Waterâ€“chromophore electron transfer determines the photochemistry of cytosine and cytidine. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17531-17537.	1.3	21
17	A prebiotically plausible synthesis of pyrimidine Î²-ribose nucleosides and their phosphate derivatives involving photoanomerization. <i>Nature Chemistry</i> , 2017, 9, 303-309.	6.6	109
18	Prebiotic synthesis of nucleic acids and their building blocks at the atomic level â€“ merging models and mechanisms from advanced computations and experiments. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20047-20066.	1.3	48

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19	On the physical origins of interaction-induced vibrational (hyper)polarizabilities. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22467-22477.	1.3	16
20	Ultrafast excited-state dynamics of isocytosine. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20208-20218.	1.3	34
21	Photorelaxation of imidazole and adenine via electron-driven proton transfer along H ₂ O wires. <i>Faraday Discussions</i> , 2016, 195, 237-251.	1.6	12
22	Excited-state hydrogen atom abstraction initiates the photochemistry of ̂ ² -2-deoxycytidine. <i>Chemical Science</i> , 2015, 6, 2035-2043.	3.7	17
23	On the particular importance of vibrational contributions to the static electrical properties of model linear molecules under spatial confinement. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21782-21786.	1.3	17
24	Distributed Multipolar Expansion Approach to Calculation of Excitation Energy Transfer Couplings. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3259-3266.	2.3	21
25	Electron-Driven Proton Transfer Along H ₂ O Wires Enables Photorelaxation of ̂ ¹ * States in Chromophore-Water Clusters. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1467-1471.	2.1	31
26	Solvent effects on the photochemistry of 4-aminoimidazole-5-carbonitrile, a prebiotically plausible precursor of purines. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17617-17626.	1.3	13
27	Molecular Mechanism of Diaminomaleonitrile to Diaminofumaronitrile Photoisomerization: An Intermediate Step in the Prebiotic Formation of Purine Nucleobases. <i>Chemistry - A European Journal</i> , 2014, 20, 2515-2521.	1.7	13
28	On the Origins of Large Interaction-Induced First Hyperpolarizabilities in Hydrogen-Bonded ̂ ¹ -Electronic Complexes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6859-6866.	1.1	12
29	Photochemistry of 2-Aminooxazole, a Hypothetical Prebiotic Precursor of RNA Nucleotides. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2785-2788.	2.1	29
30	How does the Boys and Bernardi counterpoise correction scheme affects the calculated interaction-induced electric properties? Model hydrogen-bonded systems as a case study. <i>Chemical Physics Letters</i> , 2013, 571, 28-33.	1.2	9
31	Induced Optical Activity of DNA-Templated Cyanine Dye Aggregates: Exciton Coupling Theory and TD-DFT Studies. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5909-5918.	1.1	13
32	Resonance-assisted hydrogen bonds revisited. Resonance stabilization vs. charge delocalization. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2514.	1.3	71
33	Theoretical studies of the mechanism of 2-aminooxazole formation under prebiotically plausible conditions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7812.	1.3	13
34	The effect of intermolecular interactions on the electric dipole polarizabilities of nucleic acid base complexes. <i>Chemical Physics Letters</i> , 2013, 555, 230-234.	1.2	15
35	On the performance of long-range-corrected density functional theory and reduced-size polarized LPol basis sets in computations of electric dipole (hyper)polarizabilities of ̂ ¹ -conjugated molecules. <i>Journal of Computational Chemistry</i> , 2013, 34, 819-826.	1.5	28
36	Resonant and Nonresonant Hyperpolarizabilities of Spatially Confined Molecules: A Case Study of Cyanoacetylene. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3463-3472.	2.3	27

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37	Electric dipole (hyper)polarizabilities of spatially confined LiH molecule. <i>Journal of Chemical Physics</i> , 2012, 137, 094307.	1.2	27
38	The theoretical studies of interactions of the OH ⁺ (H ₂ O) _n clusters evolution toward the hydroxide anion hydration. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3046-3051.	1.0	3
39	On the Calculations of Interaction Energies and Induced Electric Properties within the Polarizable Continuum Model. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4409-4416.	1.1	22
40	Large Changes of Static Electric Properties Induced by Hydrogen Bonding: An ab Initio Study of Linear HCN Oligomers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4691-4700.	1.1	25
41	The Ethidium ⁺ /AU Intercalation Site: Effect of Model Fragmentation and Backbone Charge State. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2600-2609.	2.3	8
42	Electronic Structure, Bonding, Spectra, and Linear and Nonlinear Electric Properties of TiC ₂₈ . <i>Journal of Physical Chemistry A</i> , 2011, 115, 10370-10381.	1.1	33
43	Structural Variability and the Nature of Intermolecular Interactions in Watson [–] Crick B-DNA Base Pairs. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9629-9644.	1.2	42
44	On the Nature of Intermolecular Interactions in Nucleic Acid Base [–] Amino Acid Side-Chain Complexes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11511-11520.	1.2	22
45	On decomposition of interaction-induced electric properties of HF dimer. <i>Chemical Physics Letters</i> , 2008, 461, 203-206.	1.2	20
46	On the cooperativity of the interaction-induced (hyper)polarizabilities of the selected hydrogen-bonded trimers. <i>Chemical Physics Letters</i> , 2007, 436, 116-123.	1.2	63
47	The nature of interactions in uracil dimer: An ab initio study. <i>Chemical Physics Letters</i> , 2007, 450, 132-137.	1.2	26
48	On the weak intermolecular interactions and their influence on the optical properties of unsaturated hydrocarbons. Part 1: Two-body interactions. <i>Molecular Physics</i> , 2006, 104, 2263-2271.	0.8	5
49	Proton bound open shell systems [–] theoretical studies on O ₂ H ⁺ (O ₂) _n (n=1–6) complexes. <i>Molecular Physics</i> , 2006, 104, 2327-2336.	0.8	3
50	On the influence of microsolvation by argon atoms on the electron affinity properties of water dimer. <i>Journal of Chemical Physics</i> , 2006, 124, 094304.	1.2	1
51	On the influence of non-additive interactions on the optical properties of the selected subsystems of crystalline urea. <i>Chemical Physics Letters</i> , 2005, 406, 29-37.	1.2	19
52	The Nature of Interactions in the Ionic Crystal of 3-Pentenenitrile, 2-Nitro-5-oxo, Ion [–] (1), Sodium. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2027-2033.	1.2	38
53	Dimers of Formic Acid, Acetic Acid, Formamide and Pyrrole-2-carboxylic Acid: an Ab Initio Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6397-6405.	1.1	157
54	Intermolecular interactions in solution: Elucidating the influence of the solvent. <i>Journal of Chemical Physics</i> , 2004, 120, 2802-2813.	1.2	39

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55	Theoretical ab initio study on the electronic states of GaO and Ga ₂ O. Computational and Theoretical Chemistry, 2004, 672, 105-111.	1.5	7
56	The micro-solvation of Na ⁺ : theoretical study of bonding characteristics in weakly bonded Ar _n Na ⁺ (n=1-8) clusters. Chemical Physics Letters, 2004, 391, 112-119.	1.2	14
57	Molecular properties of protonated homogeneous and mixed carbon oxide and carbon dioxide clusters. Journal of Chemical Physics, 2003, 119, 6560-6570.	1.2	8
58	A new theoretical insight into the nature of intermolecular interactions in the molecular crystal of urea. Journal of Chemical Physics, 2002, 117, 1031-1039.	1.2	75
59	Bonding in the oxo ferrous iron species: A complete active-space self-consistent-field theory verification of the molecular-oxygen-like pattern. Journal of Chemical Physics, 2002, 117, 7153-7161.	1.2	18
60	The Molecular Structures, Energetics, and Nature of Interactions in Ar _n -N ₂ H ⁺ (n= 1-12) Complexes. Journal of Physical Chemistry A, 2002, 106, 11162-11167.	1.1	17
61	New theoretical insight into the thermal cis-trans isomerization of azo compounds: Protonation lowers the activation barrier. Journal of Chemical Physics, 2001, 114, 5504-5508.	1.2	49
62	Ar ⁺ -H ₂ O and its neutral precursors: Similarities and differences. Journal of Chemical Physics, 2001, 115, 9260-9265.	1.2	18
63	The structures and properties of cis- and trans-MeCl ₂ (NH ₃) ₂ , Me=Pd and Pt complexes, in ground and excited states. International Journal of Quantum Chemistry, 2001, 83, 213-219.	1.0	8
64	The influence of the detachment of electrons on the properties and the nature of interactions in X ⁺ -H ₂ O (X=Cl, Br) complexes. Journal of Chemical Physics, 2001, 115, 3469-3473.	1.2	12
65	The molecular structures and nature of interactions in CH ₃ +Ar _n (n=1-8) complexes. Journal of Chemical Physics, 2001, 115, 771-777.	1.2	17
66	Properties and nature of interactions in Cl ⁺ (H ₂ O) _n (n=1,6) clusters: a theoretical study. Chemical Physics Letters, 2000, 325, 7-14.	1.2	54
67	C-H interactions involving acetylene: an ab initio MO study. Journal of Molecular Structure, 2000, 556, 315-320.	1.8	23
68	A theoretical study of the structures and energetics of O ⁺ -Ar (n=1-6) clusters. Chemical Physics Letters, 1999, 313, 198-204.	1.2	16
69	Structure and Nature of the Interaction of the CH ₃ N ₂ ⁺ Ion Shellvated by H ₂ Molecules: CH ₃ N ₂ ⁺ (H ₂) _n (n=1-9). Journal of Physical Chemistry A, 1999, 103, 9138-9143.	1.1	8