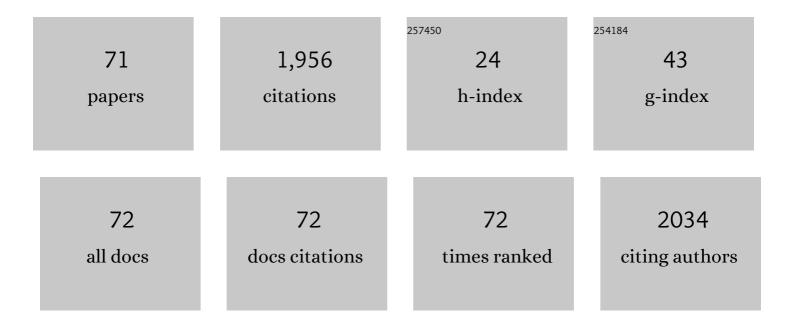
List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Next generation quantum theory of atoms in molecules for the design of emitters exhibiting thermally activated delayed fluorescence with laser irradiation. Journal of Computational Chemistry, 2022, 43, 206-214.   | 3.3 | 4         |
| 2  | Chiral and steric effects in ethane: A next generation QTAIM interpretation. Chemical Physics Letters, 2022, 800, 139669.  | 2.6 | 8         |
| 3  | Mixed chiral and achiral character in substituted ethane: A next generation QTAIM perspective.<br>Chemical Physics Letters, 2022, 803, 139762.   | 2.6 | 7         |
| 4  | Control of chirality, bond flexing and anharmonicity in an electric field. International Journal of Quantum Chemistry, 2021, 121, e26793.  | 2.0 | 8         |
| 5  | Chirality without Stereoisomers: Insight fromÂthe Helical Response of Bond Electrons.<br>ChemPhysChem, 2021, 22, 1989-1995.  | 2.1 | 8         |
| 6  | Towards a symmetric reversible single-molecule switch: Amino-imino-cyclo-n-enes. Chemical Physics<br>Impact, 2021, 3, 100035.  | 3.5 | 1         |
| 7  | A quinone based single-molecule switch as building block for molecular electronics. Physical<br>Chemistry Chemical Physics, 2021, 23, 1811-1814.   | 2.8 | 3         |
| 8  | Nextâ€generation QTAIM for scoring molecular wires in Eâ€fields for molecular electronic devices.<br>Journal of Computational Chemistry, 2020, 41, 913-921.  | 3.3 | 12        |
| 9  | A computational study of TyrGly hydration. Computational and Theoretical Chemistry, 2020, 1190, 113011.  | 2.5 | 0         |
| 10 | Halogen-Bonded Guanine Base Pairs, Quartets and Ribbons. International Journal of Molecular<br>Sciences, 2020, 21, 6571.   | 4.1 | 4         |
| 11 | Simulation of electrochemical properties of naturally occurring quinones. Scientific Reports, 2020, 10, 13571.   | 3.3 | 28        |
| 12 | Halogen and Hydrogen Bonding in Halogenabenzene/NH3 Complexes Compared Using Next-Generation QTAIM. Molecules, 2019, 24, 2875.   | 3.8 | 8         |
| 13 | Crystal structures, Hirsfeld surface analysis and a computational study of four ethyl<br>2-oxo-2H-chromene-3-carboxylate derivatives: a survey of organyl 2-oxo-2H-chromene-3-carboxylate<br>structures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 85-99. | 0.8 | 0         |
| 14 | Halogen bonding with the halogenabenzene bird structure, halobenzene, and halocyclopentadiene.<br>Journal of Computational Chemistry, 2019, 40, 2111-2118.   | 3.3 | 4         |
| 15 | Next generation QTAIM for the design of quinone-based switches. Chemical Physics Letters, 2019, 722, 110-118.  | 2.6 | 9         |
| 16 | Different substituent effects on the supramolecular arrays in some ( <i>E</i> )-halo- and<br>nitro-benzaldehyde oximes: confirmation of attractive Ï€(C=N)···Ĩ€(phenyl) interactions. Zeitschrift Fur<br>Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 319-334. | 0.7 | 3         |
| 17 | The destabilization of hydrogen bonds in an external Eâ€field for improved switch performance. Journal of Computational Chemistry, 2019, 40, 1881-1891.  | 3.3 | 15        |
| 18 | Consequences of theory level choice evaluated with new tools from QTAIM and the stress tensor for a dipeptide conformer. Chemical Physics Letters, 2018, 696, 42-47.   | 2.6 | 1         |

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|----|--|-----|-----------|
| 19 | Intramolecular BSSE and dispersion affect the structure of a dipeptide conformer. Molecular Physics, 2018, 116, 1236-1244.   | 1.7 | 4         |
| 20 | 13C-1H coupling constants as a conformational tool for structural assignment of quinic and octulosonic acid. Journal of Molecular Modeling, 2018, 24, 324.   | 1.8 | 4         |
| 21 | Halogen bonding in mono―and dihydrated halobenzene. Journal of Computational Chemistry, 2018, 40,<br>554-561.  | 3.3 | 6         |
| 22 | Quinoneâ€based switches for candidate building blocks of molecular junctions with QTAIM and the stress tensor. International Journal of Quantum Chemistry, 2018, 118, e25676.  | 2.0 | 21        |
| 23 | A DFT study of 2-aminopurine-containing dinucleotides: prediction of stacked conformations with B-DNA structure. Physical Chemistry Chemical Physics, 2016, 18, 14691-14700.   | 2.8 | 8         |
| 24 | A QTAIM exploration of the competition between hydrogen and halogen bonding in halogenated<br>1-methyluracil: Water systems. Chemical Physics Letters, 2016, 662, 67-72.   | 2.6 | 10        |
| 25 | Are the Sublimation Thermodynamics of Organic Molecules Predictable?. Journal of Chemical<br>Information and Modeling, 2016, 56, 2162-2179.  | 5.4 | 28        |
| 26 | Competition between hydrogen and halogen bonding in halogenated 1â€methyluracil: Water systems.<br>Journal of Computational Chemistry, 2016, 37, 763-770.  | 3.3 | 21        |
| 27 | DNA base stacking involving adenine and 2-aminopurine. Structural Chemistry, 2016, 27, 145-158.  | 2.0 | 15        |
| 28 | Tyrosine-glycine revisited: Resolving the discrepancy between theory and experiment. Chemical Physics<br>Letters, 2015, 621, 124-128.  | 2.6 | 6         |
| 29 | Stacking of the mutagenic base analogue 5-bromouracil: energy landscapes of pyrimidine dimers in gas phase and water. Physical Chemistry Chemical Physics, 2015, 17, 30364-30370.                                      | 2.8 | 8         |
| 30 | Density functional theory across chemistry, physics and biology. Philosophical Transactions Series A,<br>Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120488.  | 3.4 | 84        |
| 31 | Stacking of the mutagenic DNA base analog 5-bromouracil. Theoretical Chemistry Accounts, 2014, 133, 1.   | 1.4 | 9         |
| 32 | New Class of Metal Bound Molecular Switches Involving H-Tautomerism. Nano Letters, 2014, 14,<br>634-639.   | 9.1 | 37        |
| 33 | Structural and energetic properties of the potential HIV-1 reverse transcriptase inhibitors d4A and d4G: a comprehensive theoretical investigation. Journal of Biomolecular Structure and Dynamics, 2014, 32, 730-740. | 3.5 | 31        |
| 34 | Computational Studies of Bridging Structures and Isomerism in Substituted Disilynes. Journal of<br>Chemical Theory and Computation, 2013, 9, 2697-2705.  | 5.3 | 1         |
| 35 | Conformational Landscape of the Nucleoside Reverse Transcriptase Inhibitor d4T: a Comprehensive<br>Quantum-Chemical Approach. Current Physical Chemistry, 2013, 3, 83-92.  | 0.2 | 6         |
| 36 | First-Principles Calculation of the Intrinsic Aqueous Solubility of Crystalline Druglike Molecules.<br>Journal of Chemical Theory and Computation, 2012, 8, 3322-3337.   | 5.3 | 84        |

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|----|--|------|-----------|
| 37 | Complete conformational space of the potential HIV-1 reverse transcriptase inhibitors d4U and d4C. A quantum chemical study. Physical Chemistry Chemical Physics, 2012, 14, 6787.                    | 2.8  | 50        |
| 38 | DNA base stacking: The stacked uracil/uracil and thymine/thymine minima. Journal of Computational Chemistry, 2012, 33, 2161-2172.  | 3.3  | 28        |
| 39 | Modelling Zwitterions in Solution: 3â€Fluoroâ€Î³â€aminobutyric Acid (3Fâ€GABA). Chemistry - A European<br>Journal, 2012, 18, 184-195.  | 3.3  | 11        |
| 40 | Conformational Structure of Tyrosine, Tyrosyl-glycine, and Tyrosyl-glycyl-glycine by Double<br>Resonance Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 6077-6087.                        | 2.5  | 60        |
| 41 | NMR spectroscopy: quantumâ€chemical calculations. Wiley Interdisciplinary Reviews: Computational<br>Molecular Science, 2011, 1, 634-647.   | 14.6 | 76        |
| 42 | The nature of base stacking: a Monte Carlo study. Theoretical Chemistry Accounts, 2011, 130, 859-870.  | 1.4  | 7         |
| 43 | A DFT study of uracil and 5-bromouracil in nanodroplets. Theoretical Chemistry Accounts, 2010, 125, 233-244.   | 1.4  | 31        |
| 44 | Performance of the M06-L density functional for a folded Tyr–Gly conformer. Chemical Physics<br>Letters, 2010, 485, 40-44.   | 2.6  | 13        |
| 45 | DFT study of polymorphism of the DNA double helix at the level of dinucleoside monophosphates.<br>International Journal of Quantum Chemistry, 2010, 110, 2548-2559.                                  | 2.0  | 2         |
| 46 | Ï€ Interactions Studied with Electronic Structure Methods: The Ethyne Methyl Isocyanide Complex and Thioanisole. Journal of Chemical Theory and Computation, 2010, 6, 2687-2700.                     | 5.3  | 7         |
| 47 | Comment on â€~To stack or not to stack: Performance of a new density functional for the uracil and thymine dimers' [Chem. Phys. Lett. 459 (2008) 164]. Chemical Physics Letters, 2009, 473, 206-208. | 2.6  | 9         |
| 48 | Comment on "Aromaticâ€Backbone Interactions in Model αâ€Helical Peptides―[Palermo et al., J Comput<br>Chem 2007, 28, 1208]. Journal of Computational Chemistry, 2008, 29, 1-3.                       | 3.3  | 17        |
| 49 | Assessment of Density Functionals for Intramolecular Dispersion-Rich Interactions. Journal of Chemical Theory and Computation, 2008, 4, 1610-1619.   | 5.3  | 65        |
| 50 | PM6 quantum chemical study of the H-bonded and stacked associates of the adenine and thymine DNA bases: The nature of base stacking. Molecular Physics, 2008, 106, 1487-1494.                        | 1.7  | 8         |
| 51 | Characterizing the Cooperativity in H-Bonded Amino Structures. Journal of Physical Chemistry A, 2007, 111, 11350-11358.  | 2.5  | 19        |
| 52 | Geometry Dependence of Spin–Spin Couplings in Cyanamide by DFT Analysis. ChemPhysChem, 2007, 8,<br>288-296.  | 2.1  | 5         |
| 53 | Insufficient description of dispersion in B3LYP and large basis set superposition errors in MP2 calculations can hide peptide conformers. Chemical Physics Letters, 2007, 442, 42-46.                | 2.6  | 110       |
| 54 | Indication of water droplet formation in hydrated clusters of cytosine and adenine: An electronic structure study using B3LYP, LMP2 and PM6. Chemical Physics Letters, 2007, 445, 303-308.           | 2.6  | 23        |

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|----|---|------|-----------|
| 55 | Density functional theory reveals an increase in the amino H1 chemical shift in guanine due to hydrogen bonding with water. Journal of Chemical Physics, 2006, 125, 191101.   | 3.0  | 15        |
| 56 | The structure of the gas-phase tyrosine–glycine dipeptide. Molecular Physics, 2006, 104, 559-570.   | 1.7  | 56        |
| 57 | Molecular Conformations and Relative Stabilities Can Be as Demanding of the Electronic Structure<br>Method as Intermolecular Calculations. Journal of Physical Chemistry A, 2006, 110, 8-12.  | 2.5  | 115       |
| 58 | A comment on "Accurate ab initio determination of binding energies for rare-gas dimers by basis set<br>extrapolation― Theoretical Chemistry Accounts, 2006, 115, 274-275.   | 1.4  | 1         |
| 59 | Characterization of the Monovalent Ion Position and Hydrogen-Bond Network in Guanine Quartets by DFT Calculations of NMR Parameters. Chemistry - A European Journal, 2005, 11, 6064-6079.   | 3.3  | 65        |
| 60 | The potential energy landscape of noradrenaline: An electronic structure study. Molecular Physics, 2005, 103, 1641-1654.  | 1.7  | 14        |
| 61 | The shape of neurotransmitters in the gas phase: A theoretical study of adrenaline, pseudoadrenaline,<br>and hydrated adrenalineElectronic supplementary information (ESI) available: Relative energies of all<br>adrenaline and pseudoadrenaline conformers studied. See http://www.rsc.org/suppdata/cp/b3/b315520j/.<br>Physical Chemistry Chemical Physics. 2004. 6. 2827. | 2.8  | 45        |
| 62 | First–principles quantum chemistry in the life sciences. Philosophical Transactions Series A,<br>Mathematical, Physical, and Engineering Sciences, 2004, 362, 2653-2670.  | 3.4  | 11        |
| 63 | Neurotransmitters in the gas phase: a computational and spectroscopic study of noradrenaline.<br>Molecular Physics, 2003, 101, 1239-1248.   | 1.7  | 78        |
| 64 | Neurotransmitters in the gas phase: hydrated noradrenaline. Physical Chemistry Chemical Physics, 2003, 5, 4519-4526.  | 2.8  | 44        |
| 65 | A critical note on density functional theory studies on rare-gas dimers. Journal of Chemical Physics, 2002, 116, 9620-9623.   | 3.0  | 221       |
| 66 | A theoretical study of the conformational landscape of serotoninElectronic supplementary information (ESI) available: computed harmonic hydride stretch frequencies and intensities of the serotonin (OH-anti) and (OH-syn) conformers. See http://www.rsc.org/suppdata/cp/b2/b207565b/.<br>Physical Chemistry Chemical Physics, 2002, 4, 5863-5871.                          | 2.8  | 45        |
| 67 | A theoretical study of uracil–(H2O)n, n = 2 to 4. Physical Chemistry Chemical Physics, 2001, 3, 2886-2892.  | 2.8  | 45        |
| 68 | Ab initio and diffusion Monte Carlo study of uracil–water, thymine–water, cytosine–water, and cytosine–(water)2. Physical Chemistry Chemical Physics, 2000, 2, 1281-1290.   | 2.8  | 88        |
| 69 | H-Densities:  A New Concept for Hydrated Molecules. Accounts of Chemical Research, 2000, 33, 441-447.   | 15.6 | 55        |
| 70 | Gaussian basis sets for use in correlated molecular calculations. VIII. Standard and augmented<br>sextuple zeta correlation consistent basis sets for aluminum through argon. International Journal of<br>Quantum Chemistry, 2000, 76, 205.   | 2.0  | 3         |
| 71 | Gaussian basis sets for use in correlated molecular calculations. VIII. Standard and augmented sextuple zeta correlation consistent basis sets for aluminum through argon. , 0, .   |      | 3         |