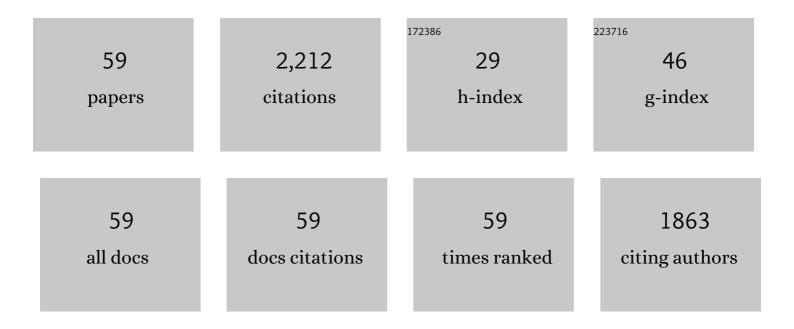
List of Publications by Year in descending order

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PARIO JAQUE

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Characterization of copper clusters through the use of density functional theory reactivity descriptors. Journal of Chemical Physics, 2002, 117, 3208-3218. | 1.2 | 186 |
| 2 | Validity of the Minimum Polarizability Principle in Molecular Vibrations and Internal Rotations:Â An ab Initio SCF Study. Journal of Physical Chemistry A, 1999, 103, 9307-9312. | 1.1 | 127 |
| 3 | Computational Electrochemistry: The Aqueous Ru3+ Ru2+Reduction Potential. Journal of Physical Chemistry C, 2007, 111, 5783-5799. | 1.5 | 126 |
| 4 | The reaction force: Three key points along an intrinsic reaction coordinate. Journal of Chemical Sciences, 2005, 117, 467-472. | 0.7 | 122 |
| 5 | Theoretical Study of the Double Proton Transfer in the CHXâ^'XH···CHXâ^'XH (X = O, S) Complexes. Journal of Physical Chemistry A, 2000, 104, 995-1003. | 1.1 | 114 |
| 6 | Molecular Structure and Bonding of Copper Cluster Monocarbonyls CunCO (n= 1â^'9). Journal of Physical Chemistry B, 2006, 110, 6526-6536. | 1.2 | 97 |
| 7 | Reaction Force Analysis of the Effect of Mg(II) on the 1,3 Intramolecular Hydrogen Transfer in Thymine. Journal of Physical Chemistry A, 2006, 110, 9478-9485. | 1.1 | 91 |
| 8 | Reaction force constant and projected force constants of vibrational modes along the path of an intramolecular proton transfer reaction. Chemical Physics Letters, 2008, 456, 135-140. | 1.2 | 80 |
| 9 | Complementarity of reaction force and electron localization function analyses of asynchronicity in bond formation in Diels–Alder reactions. Physical Chemistry Chemical Physics, 2014, 16, 6726. | 1.3 | 62 |
| 10 | Using Sanderson's Principle to Estimate Global Electronic Properties and Bond Energies of Hydrogen-Bonded Complexes. Journal of Physical Chemistry A, 2000, 104, 8955-8964. | 1.1 | 57 |
| 11 | Can Electrophilicity Act as a Measure of the Redox Potential of Firstâ€Row Transition Metal Ions?. Chemistry - A European Journal, 2007, 13, 9331-9343. | 1.7 | 55 |
| 12 | The reaction force constant: an indicator of the synchronicity in double proton transfer reactions. Physical Chemistry Chemical Physics, 2012, 14, 11125. | 1.3 | 54 |
| 13 | The Study of Redox Reactions on the Basis of Conceptual DFT Principles: EEM and Vertical Quantities. Journal of Physical Chemistry A, 2008, 112, 6023-6031. | 1.1 | 53 |
| 14 | The reaction force constant as an indicator of synchronicity/nonsynchronicity in [4+2] cycloaddition processes. Physical Chemistry Chemical Physics, 2013, 15, 7311. | 1.3 | 53 |
| 15 | Deeper Insight into the Factors Controlling H ₂ Activation by Geminal Aminoboraneâ€Based Frustrated Lewis Pairs. Chemistry - A European Journal, 2016, 22, 18801-18809. | 1.7 | 52 |
| 16 | Theoretical Study of the Regioselectivity of [2 + 2] Photocycloaddition Reactions of Acrolein with Olefins. Journal of Physical Chemistry A, 2009, 113, 332-344. | 1.1 | 48 |
| 17 | Perspectives on the reaction force constant. Journal of Molecular Modeling, 2013, 19, 4111-4118. | 0.8 | 45 |
| 18 | Towards understanding the molecular internal rotations and vibrations and chemical reactions through the profiles of reactivity and selectivity indices: an ab initio SCF and DFT study. Molecular Physics, 2003, 101, 2841-2853. | 0.8 | 42 |

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|----|---|-----|-----------|
| 19 | Traditional and Ion-Pair Halogen-Bonded Complexes Between Chlorine and Bromine Derivatives and a Nitrogen-Heterocyclic Carbene. Journal of Physical Chemistry A, 2014, 118, 9552-9560. | 1.1 | 38 |
| 20 | Reaction mechanism of hydrogen activation by frustrated Lewis pairs. Green Energy and Environment, 2019, 4, 20-28. | 4.7 | 38 |
| 21 | Fine structure in the transition region: reaction force analyses of water-assisted proton transfers. Journal of Molecular Modeling, 2013, 19, 2689-2697. | 0.8 | 36 |
| 22 | Connection between the average local ionization energy and the Fukui function. Chemical Physics Letters, 2005, 407, 143-146. | 1.2 | 34 |
| 23 | Simultaneous determination of chlordiazepoxide and clidinium bromide in pharmaceutical formulations by derivative spectrophotometry. International Journal of Pharmaceutics, 1999, 189, 67-74. | 2.6 | 33 |
| 24 | Theoretical analysis based on X–H bonding strength and electronic properties in red- and blue-shifting hydrogen-bonded X–Hâ<ï€ complexes. Physical Chemistry Chemical Physics, 2011, 13, 1552-1559. | 1.3 | 33 |
| 25 | Clean Singlet Oxygen Production by a Re ^I Complex Embedded in a Flexible Self-Standing Polymeric Silsesquioxane Film. Journal of Physical Chemistry C, 2015, 119, 10148-10159. | 1.5 | 32 |
| 26 | Hydrogenation of Multiple Bonds by Geminal Aminoboraneâ€Based Frustrated Lewis Pairs. Chemistry - A European Journal, 2018, 24, 8833-8840. | 1.7 | 32 |
| 27 | Analyzing Kullback–Leibler information profiles: an indication of their chemical relevance. Physical Chemistry Chemical Physics, 2009, 11, 476-482. | 1.3 | 31 |
| 28 | DFT Study on the Relative Stabilities of Substituted Ruthenacyclobutane Intermediates Involved in Olefin Cross-Metathesis Reactions and Their Interconversion Pathways. Organometallics, 2014, 33, 6065-6075. | 1.1 | 31 |
| 29 | Effect of the exchange–correlation functional on the synchronicity/nonsynchronicity in bond formation in Diels–Alder reactions: a reaction force constant analysis. Physical Chemistry Chemical Physics, 2019, 21, 7412-7428. | 1.3 | 31 |
| 30 | The Formation of Neutral Copper Clusters from Experimental Binding Energies and Reactivity Descriptors. Journal of Physical Chemistry B, 2004, 108, 2568-2574. | 1.2 | 30 |
| 31 | Effect of Lewis acid bulkiness on the stereoselectivity of Diels–Alder reactions between acyclic dienes and α,β-enals. Organic Chemistry Frontiers, 2017, 4, 1390-1399. | 2.3 | 29 |
| 32 | Photoemission Spectra and Density Functional Theory Calculations of 3d Transition Metal–Aqua Complexes (Ti–Cu) in Aqueous Solution. Journal of Physical Chemistry B, 2014, 118, 6850-6863. | 1.2 | 28 |
| 33 | Driving and retarding forces in a chemical reaction. Journal of Molecular Modeling, 2014, 20, 2351. | 0.8 | 25 |
| 34 | Insights into some Diels–Alder cycloadditions via the electrostatic potential and the reaction force constant. Computational and Theoretical Chemistry, 2015, 1053, 270-280. | 1.1 | 21 |
| 35 | A computational and conceptual DFT study on the mechanism of hydrogen activation by novel frustrated Lewis pairs. Physical Chemistry Chemical Physics, 2015, 17, 10715-10725. | 1.3 | 20 |
| 36 | Regioselectivity of Radical Additions to Substituted Alkenes: Insight from Conceptual Density Functional Theory. Journal of Organic Chemistry, 2010, 75, 4964-4974. | 1.7 | 19 |

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| 37 | Nucleophilicity and electrophilicity of silylenes from a molecular electrostatic potential and dual descriptor perspectives. Chemical Physics Letters, 2009, 470, 180-186. | 1.2 | 17 |
| 38 | Regaining the Woodward–Hoffmann rules for chelotropic reactions via conceptual DFT. Canadian Journal of Chemistry, 2010, 88, 858-865. | 0.6 | 16 |
| 39 | Theoretical characterization of first and second generation Grubbs catalysts in styrene cross-metathesis reactions: insights from conceptual DFT. Catalysis Science and Technology, 2016, 6, 755-766. | 2.1 | 16 |
| 40 | A New View on the Spectrochemical and Nephelauxetic Series on the Basis of Spinâ€Polarized Conceptual DFT. ChemPhysChem, 2009, 10, 847-854. | 1.0 | 15 |
| 41 | Elucidating sensing mechanisms of a pyrene excimer-based calix[4]arene for ratiometric detection of Hg(<scp>ii</scp>) and Ag(<scp>i</scp>) and chemosensor behaviour as INHIBITION or IMPLICATION logic gates. RSC Advances, 2020, 10, 21963-21973. | 1.7 | 14 |
| 42 | Polarizability of neutral copper clusters. Journal of Molecular Modeling, 2014, 20, 2410. | 0.8 | 13 |
| 43 | Scrutinizing the substituent effect on Mo-based electrocatalysts for molecular hydrogen release through axial–equatorial decomposition: a DFT study. Physical Chemistry Chemical Physics, 2019, 21, 16601-16614. | 1.3 | 12 |
| 44 | Real-Space Approach to the Reaction Force: Understanding the Origin of Synchronicity/Nonsynchronicity in Multibond Chemical Reactions. Journal of Physical Chemistry A, 2020, 124, 1959-1972. | 1.1 | 12 |
| 45 | Unusual Oxidative Dealkylation Strategy toward Functionalized Phenalenones as Singlet Oxygen Photosensitizers and Photophysical Studies. Journal of Organic Chemistry, 2020, 85, 10603-10616. | 1.7 | 11 |
| 46 | Theoretical study of dibenzyl disulfide adsorption on Cu7 cluster as a first approximation to sulfur-induced copper corrosion process. Theoretical Chemistry Accounts, 2015, 134, 1. | 0.5 | 9 |
| 47 | New imidoyl-indazole platinum (II) complexes as potential anticancer agents: Synthesis, evaluation of cytotoxicity, cell death and experimental-theoretical DNA interaction studies. Journal of Inorganic Biochemistry, 2017, 174, 90-101. | 1.5 | 8 |
| 48 | 1,3-Dipolar Cycloadditions by a Unified Perspective Based on Conceptual and Thermodynamics Models of Chemical Reactivity. Journal of Physical Chemistry A, 2021, 125, 801-815. | 1.1 | 8 |
| 49 | A systematic electronic structure study of the O–O bond dissociation energy of hydrogen peroxide and the electron affinity of the hydroxyl radical. Theoretical Chemistry Accounts, 2018, 137, 1. | 0.5 | 7 |
| 50 | Automating the IRCâ€Analysis within <i>Eyringpy</i> . International Journal of Quantum Chemistry, 2021, 121, e26684. | 1.0 | 7 |
| 51 | Initiation stage of alkene metathesis: Insights from natural bond orbital and charge decomposition analyses. Chemical Physics Letters, 2015, 618, 174-181. | 1.2 | 6 |
| 52 | Solvent effect on the degree of (a)synchronicity in polar Diels-Alder reactions from the perspective of the reaction force constant analysis. Journal of Molecular Modeling, 2018, 24, 33. | 0.8 | 6 |
| 53 | DFT benchmark study of the O–O bond dissociation energy in peroxides validated with high-level ab initio calculations. Theoretical Chemistry Accounts, 2020, 139, 1. | 0.5 | 6 |
| 54 | Electronic activity in chelotropic and cycloaddition reactions. International Journal of Quantum Chemistry, 2012, 112, 2142-2153. | 1.0 | 5 |

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| 55 | A deeper analysis of the role of synchronicity on the Bell–Evans–Polanyi plot in multibond chemical reactions: a path-dependent reaction force constant. Physical Chemistry Chemical Physics, 2022, 24, 14772-14779. | 1.3 | 5 |
| 56 | Stability analysis of lithio-silicon Si10Li8 clusters: Planar bicyclic ring vs. three-dimensional structures. Chemical Physics Letters, 2014, 604, 72-76. | 1.2 | 4 |
| 57 | Further understanding of the Ru-centered [2+2] cycloreversion/cycloaddition involved into the interconversion of ruthenacyclobutane using the Grubbs catalysts from a reaction force analysis. Journal of Molecular Modeling, 2019, 25, 305. | 0.8 | 4 |
| 58 | Unexpected intramolecular <i>N</i> -arylcyano-l²-diketiminate cyclization in new aminoquinoline derivative complexes of aluminium for CO ₂ fixation into cyclic carbonates. New Journal of Chemistry, 2019, 43, 12059-12068. | 1.4 | 3 |
| 59 | 5-HT ₂ Receptor Subfamily and the Halogen Bond Promise. Journal of Chemical Information and Modeling, 2021, 61, 5001-5012. | 2.5 | 3 |