

Jesus M Ugalde

List of Publications by Year in descending order

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246
papers

7,419
citations

53794

45
h-index

79698

73
g-index

257
all docs

257
docs citations

257
times ranked

5240
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Water Clusters: Towards an Understanding Based on First Principles of Their Static and Dynamic Properties. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 717-721. | 13.8 | 229 |
| 2 | High Impact of Antiphospholipid Syndrome on Irreversible Organ Damage and Survival of Patients With Systemic Lupus Erythematosus. <i>Archives of Internal Medicine</i> , 2004, 164, 77. | 3.8 | 195 |
| 3 | A semiempirical theoretical study on the formation of .beta.-lactams from ketenes and imines. <i>Journal of the American Chemical Society</i> , 1993, 115, 995-1004. | 13.7 | 152 |
| 4 | The Curiously Stable Cluster and its Neutral and Anionic Counterparts:Â The Advantages of PlanarityÂ. <i>Journal of Physical Chemistry A</i> , 2000, 104, 397-403. | 2.5 | 149 |
| 5 | Measuring the Spinâ€Polarization Power of a Single Chiral Molecule. <i>Small</i> , 2017, 13, 1602519. | 10.0 | 143 |
| 6 | Unexpected trends in halogen-bond based noncovalent adducts. <i>Chemical Communications</i> , 2012, 48, 7708. | 4.1 | 136 |
| 7 | On the directionality of halogen bonding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10350. | 2.8 | 136 |
| 8 | Recent developments and future prospects of all-metal aromatic compounds. <i>Chemical Society Reviews</i> , 2015, 44, 6519-6534. | 38.1 | 128 |
| 9 | Unravelling phenomenon of internal rotation in B13+ through chemical bonding analysis. <i>Chemical Communications</i> , 2011, 47, 6242. | 4.1 | 120 |
| 10 | Reactivity of Cr+(6S,4D), Mn+(7S,5S), and Fe+(6D,4F): Reaction of Cr+, Mn+, and Fe+with Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 8549-8558. | 13.7 | 116 |
| 11 | Reactivity of Co+(3F,5F), Ni+(2D,4F), and Cu+(1S,3D): Reaction of Co+, Ni+, and Cu+with Water. <i>Journal of the American Chemical Society</i> , 2000, 122, 114-122. | 13.7 | 114 |
| 12 | A natural orbital functional for multiconfigurational states. <i>Journal of Chemical Physics</i> , 2011, 134, 164102. | 3.0 | 114 |
| 13 | Catalytic and Solvent Effects on the Cycloaddition Reaction between Ketenes and Carbonyl Compounds To Form 2-Oxetanones. <i>Journal of the American Chemical Society</i> , 1994, 116, 9613-9619. | 13.7 | 113 |
| 14 | Theoretical Study of Two-State Reactivity of Transition Metal Cations:Â The â€œDifficultâ€•Case of Iron Ion Interacting with Water, Ammonia, and Methane. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1069-1081. | 2.5 | 112 |
| 15 | Pro-oxidant activity of aluminum: Promoting the Fenton reaction by reducing Fe(III) to Fe(II). <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 118-123. | 3.5 | 106 |
| 16 | Chiral Control in the Staudinger Reaction between Ketenes and Imines. A Theoretical SCF-MO Study on Asymmetric Torquoselectivity. <i>Journal of the American Chemical Society</i> , 1994, 116, 2085-2093. | 13.7 | 104 |
| 17 | Theoretical methods that help understanding the structure and reactivity of gas phase ions. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 37-99. | 1.5 | 104 |
| 18 | Reactivity of Sc+(3D,1D) and V+(5D,3F):Â Reaction of Sc+and V+with Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 574-580. | 13.7 | 102 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Sandwich-Like Complexes Based on σ -All-Metal-(Al ₄ 2-) Aromatic Compounds. Journal of the American Chemical Society, 2004, 126, 3380-3381. | 13.7 | 102 |
| 20 | Structure and Properties of ZnS Nanoclusters. Journal of Physical Chemistry B, 2005, 109, 2703-2709. | 2.6 | 102 |
| 21 | Bond Paths Show Preferable Interactions: Ab Initio and QTAIM Studies on the $X \cdots H \cdots A \cdots B$ Hydrogen Bond. Journal of Physical Chemistry A, 2010, 114, 7223-7229. | 2.5 | 101 |
| 22 | Electronic Excitation Energies of ZnO Clusters. Journal of the American Chemical Society, 2003, 125, 9494-9499. | 13.7 | 98 |
| 23 | Small clusters of II-VI materials: ZnO, i=1-9. Physical Review A, 2000, 62, . | 2.5 | 88 |
| 24 | Small clusters of II-VI materials: ZnSi, i=1-9. Physical Review A, 2000, 61, . | 2.5 | 85 |
| 25 | A Joint Experimental and Theoretical Study of Cation- π Interactions: A Multiple-Decker Sandwich Complexes of Ferrocene with Alkali Metal Ions (Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺). Journal of the American Chemical Society, 2005, 127, 10656-10666. | 13.7 | 81 |
| 26 | Designing 3-D Molecular Stars. Journal of the American Chemical Society, 2009, 131, 9426-9431. | 13.7 | 78 |
| 27 | A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035. | 14.6 | 74 |
| 28 | Iterative diagonalization for orbital optimization in natural orbital functional theory. Journal of Computational Chemistry, 2009, 30, 2078-2086. | 3.3 | 73 |
| 29 | Perspective on natural orbital functional theory. International Journal of Quantum Chemistry, 2014, 114, 1169-1175. | 2.0 | 69 |
| 30 | Benchmark Assessment of Density Functional Methods on Group II-VI MX (M = Zn, Cd; X = S, Se, Te) Quantum Dots. Journal of Chemical Theory and Computation, 2014, 10, 76-89. | 5.3 | 69 |
| 31 | On the Stereochemical Outcome of the Catalyzed and Uncatalyzed Cycloaddition Reaction between Activated Ketenes and Aldehydes to form cis- and trans-2-Oxetanones. An ab Initio Study. Journal of the American Chemical Society, 1995, 117, 12314-12321. | 13.7 | 68 |
| 32 | Communications: Accurate description of atoms and molecules by natural orbital functional theory. Journal of Chemical Physics, 2010, 132, 031103. | 3.0 | 68 |
| 33 | On the Reactivity of Ti ⁺ (4F,2F). Reaction of Ti ⁺ with OH ₂ . Journal of Physical Chemistry A, 1998, 102, 293-300. | 2.5 | 67 |
| 34 | Antiphospholipid antibodies predict early damage in patients with systemic lupus erythematosus. Lupus, 2004, 13, 900-905. | 1.6 | 60 |
| 35 | Communication: The role of the positivity N-representability conditions in natural orbital functional theory. Journal of Chemical Physics, 2010, 133, 111101. | 3.0 | 60 |
| 36 | Pro-oxidant Activity of Aluminum: Stabilization of the Aluminum Superoxide Radical Ion. Journal of Physical Chemistry A, 2011, 115, 6717-6723. | 2.5 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | A DFT/TDDFT study on the optoelectronic properties of the amine-capped magic (CdSe) ₁₃ nanocluster. Physical Chemistry Chemical Physics, 2013, 15, 10996. | 2.8 | 57 |
| 38 | Clusters of II ^{VI} Materials: Cd_nX_n , X = S, Se, Te, $n = 16$. Journal of Physical Chemistry A, 2004, 108, 10502-10508. | 2.5 | 56 |
| 39 | Planar tetracoordinate carbon in CE_4 (E=Al, Tl) clusters. Chemical Physics Letters, 2012, 519-520, 29-33. | 2.6 | 56 |
| 40 | CBe_5E (E = Al, Ga, In, Tl): planar pentacoordinate carbon in heptaatomic clusters. Physical Chemistry Chemical Physics, 2012, 14, 14764. | 2.8 | 55 |
| 41 | Complete vs Restricted Active Space Perturbation Theory Calculation of the Cr_2 Potential Energy Surface. Journal of Chemical Theory and Computation, 2011, 7, 1640-1646. | 5.3 | 53 |
| 42 | Spin conserving natural orbital functional theory. Journal of Chemical Physics, 2009, 131, 021102. | 3.0 | 52 |
| 43 | Al_{12} and the $\text{Al}@_{12}$ clusters. Physical Review A, 1998, 58, 383-388. | 2.5 | 51 |
| 44 | The Ferrocene-Lithium Cation Complex in the Gas Phase. Journal of the American Chemical Society, 2001, 123, 5040-5043. | 13.7 | 51 |
| 45 | An Ideal Spin Filter: Long-Range, High-Spin Selectivity in Chiral Helicoidal 3-Dimensional Metal Organic Frameworks. Nano Letters, 2020, 20, 8476-8482. | 9.1 | 47 |
| 46 | Solvent and Substituent Effects in the Periselectivity of the Staudinger Reaction between Ketenes and E_2 -Unsaturated Imines. A Theoretical and Experimental Study. Journal of Organic Chemistry, 1996, 61, 3070-3079. | 3.2 | 46 |
| 47 | Dispersion interactions within the Pirs natural orbital functional theory: The helium dimer. Journal of Chemical Physics, 2007, 126, 214103. | 3.0 | 46 |
| 48 | A first-principles study of II ^{VI} (II = Zn; VI = O, S, Se, Te) semiconductor nanostructures. Journal of Materials Chemistry, 2012, 22, 21453. | 6.7 | 45 |
| 49 | Mono- and Multidecker Sandwich-Like Complexes of the Tetraazacyclobutadiene Aromatic Ring. Angewandte Chemie - International Edition, 2004, 43, 5485-5488. | 13.8 | 42 |
| 50 | The Bond Order of C_2 from a Strictly N -Representable Natural Orbital Energy Functional Perspective. Chemistry - A European Journal, 2016, 22, 4109-4115. | 3.3 | 42 |
| 51 | Hydrogen-Bonding Interactions between Formic Acid and Pyridine. Journal of Physical Chemistry A, 2002, 106, 4187-4191. | 2.5 | 41 |
| 52 | Molecular Dynamics Simulations of Iron- and Aluminum-Loaded Serum Transferrin: Protonation of Tyr188 Is Necessary To Prompt Metal Release. Biochemistry, 2012, 51, 7017-7027. | 2.5 | 41 |
| 53 | ALUMINIUM IN BIOLOGICAL ENVIRONMENTS: A COMPUTATIONAL APPROACH. Computational and Structural Biotechnology Journal, 2014, 9, e201403002. | 4.1 | 41 |
| 54 | Theoretical Study of the C_2P Radical and $(\text{C}_2\text{P})^+$ Species. The Journal of Physical Chemistry, 1994, 98, 3985-3988. | 2.9 | 40 |

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| 55 | A study of the coordination shell of aluminum(III) and magnesium(II) in model protein environments: Thermodynamics of the complex formation and metal exchange reactions. Journal of Inorganic Biochemistry, 2006, 100, 374-384. | 3.5 | 40 |
| 56 | Sandwich Complexes Based on the π -Al-Metal- π -Al ₄ Aromatic Ring. Chemistry - A European Journal, 2006, 12, 4495-4502. | 3.3 | 40 |
| 57 | Intracule densities and electron correlation in the hydrogen molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 2555-2561. | 1.5 | 39 |
| 58 | Substituent and Solvent Effects in the [2 + 2] Cycloaddition Reaction between Olefins and Isocyanates. Journal of the American Chemical Society, 1995, 117, 12306-12313. | 13.7 | 39 |
| 59 | The extended Koopmans's theorem: Vertical ionization potentials from natural orbital functional theory. Journal of Chemical Physics, 2012, 136, 174116. | 3.0 | 39 |
| 60 | The natural orbital functional theory of the bonding in Cr ₂ , Mo ₂ and W ₂ . Physical Chemistry Chemical Physics, 2013, 15, 2055-2062. | 2.8 | 38 |
| 61 | Communication: Chemical bonding in carbon dimer isovalent series from the natural orbital functional theory perspective. Journal of Chemical Physics, 2013, 138, 151102. | 3.0 | 38 |
| 62 | Quantum mechanical calculations on phosphate hydrolysis reactions. Journal of Computational Chemistry, 2000, 21, 43-51. | 3.3 | 37 |
| 63 | Stability and Aromaticity of BiNi Rings and Fullerenes. Journal of Physical Chemistry A, 2003, 107, 10004-10010. | 2.5 | 37 |
| 64 | Small clusters of group-(II-VI) materials: Zn _i X _i , X=Se, Te, i=1-9. Physical Review A, 2001, 64, . | 2.5 | 36 |
| 65 | The Spin Dependence of the Spatial Size of Fe(II) and of the Structure of Fe(II)-Porphyrins. Journal of Physical Chemistry A, 2004, 108, 4653-4657. | 2.5 | 36 |
| 66 | Homolytic molecular dissociation in natural orbital functional theory. Physical Chemistry Chemical Physics, 2011, 13, 20129. | 2.8 | 35 |
| 67 | Electronic excitation energies of ZnSi clusters. Physical Review A, 2001, 64, . | 2.5 | 34 |
| 68 | The one-electron picture in the PNOF5 natural orbital functional 5 (PNOF5). Theoretical Chemistry Accounts, 2013, 132, 1. | 1.4 | 33 |
| 69 | The aromaticity of dicupra[10]annulenes. Physical Chemistry Chemical Physics, 2017, 19, 9669-9675. | 2.8 | 33 |
| 70 | The evaluation of electronic extracule and intracule densities and related probability functions in terms of Gaussian basis functions. Journal of Mathematical Chemistry, 1991, 6, 51-61. | 1.5 | 32 |
| 71 | Role of the isomerization pathways in the Staudinger reaction. A theoretical study on the interaction between activated ketenes and imidates. Tetrahedron Letters, 1994, 35, 4465-4468. | 1.4 | 31 |
| 72 | A theoretical study of the principles regulating the specificity for Al(III) against Mg(II) in protein cavities. Journal of Inorganic Biochemistry, 2007, 101, 1192-1200. | 3.5 | 31 |

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| 73 | New Approximation to the Third-Order Density. Application to the Calculation of Correlated Multicenter Indices. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3055-3065. | 5.3 | 31 |
| 74 | Upper bounds to the electron-electron coalescence density in terms of the one-electron density function. <i>Physical Review A</i> , 1994, 49, 3081-3082. | 2.5 | 30 |
| 75 | Can correlation bring electrons closer together?. <i>Molecular Physics</i> , 2009, 107, 1089-1093. | 1.7 | 30 |
| 76 | A QM/MM study of the complexes formed by aluminum and iron with serum transferrin at neutral and acidic pH. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1446-1456. | 3.5 | 30 |
| 77 | Plasmonic Resonances in the Al_{13}^{+} Cluster: Quantification and Origin of Exciton Collectivity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12742-12750. | 3.1 | 30 |
| 78 | Many low-lying isomers of the cationic and neutral niobium trimer and tetramer. <i>Physical Review A</i> , 1999, 60, 3058-3070. | 2.5 | 27 |
| 79 | Comparative Study of Various Mechanisms for Metallocene-Catalyzed α -Olefin Polymerization. <i>Organometallics</i> , 2005, 24, 3233-3246. | 2.3 | 27 |
| 80 | Endohedral $(X@ZnSi)_i$ $i=4-160$, \pm Nanoclusters, $X = Li, Na, K, Cl, Br$. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3560-3565. | 3.1 | 27 |
| 81 | Modeling Surface Passivation of ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2740-2750. | 3.1 | 27 |
| 82 | The Laplacian of the intracule and extracule densities and their relationship to the shell structure of atoms. <i>Journal of Chemical Physics</i> , 1992, 96, 6778-6783. | 3.0 | 26 |
| 83 | Electronic excitation energies of small ZnSi clusters. <i>Physical Review A</i> , 2000, 63, . | 2.5 | 26 |
| 84 | Comparison of Ti, Zr, and Hf as Cations for Metallocene-Catalyzed Olefin Polymerization. <i>Organometallics</i> , 2006, 25, 4483-4490. | 2.3 | 26 |
| 85 | Aluminum speciation in biological environments. The deprotonation of free and aluminum bound citrate in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12465. | 2.8 | 26 |
| 86 | An ab initio study on the mechanism of the alkene-isocyanate cycloaddition reaction to form β -lactams. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1450-1452. | 2.0 | 25 |
| 87 | Aluminum(III) Interactions with the Acidic Amino Acid Chains. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7006-7012. | 2.5 | 25 |
| 88 | Diradicals and Diradicaloids in Natural Orbital Functional Theory. <i>ChemPhysChem</i> , 2011, 12, 1061-1065. | 2.1 | 25 |
| 89 | Theoretical studies of possible processes for the interstellar production of phosphorus compounds: reaction of phosphorus(1+) with ammonia. <i>The Journal of Physical Chemistry</i> , 1991, 95, 170-175. | 2.9 | 24 |
| 90 | Activation of Methane by the Iron Dimer Cation. A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12501-12511. | 2.5 | 24 |

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| 91 | Endohedral Stannaspherenes Mn@Sn ₁₂ and its Dimer: Ferromagnetic or Antiferromagnetic?. ChemPhysChem, 2007, 8, 2096-2099. | 2.1 | 24 |
| 92 | Performance of PNOF5 Natural Orbital Functional for Radical Formation Reactions: Hydrogen Atom Abstraction and C-C and O-O Homolytic Bond Cleavage in Selected Molecules. Journal of Chemical Theory and Computation, 2012, 8, 2646-2652. | 5.3 | 24 |
| 93 | Experimental and Theoretical Study of a Cadmium Coordination Polymer Based on Aminonicotinate with Second-Timescale Blue/Green Photoluminescent Emission. Inorganic Chemistry, 2017, 56, 3149-3152. | 4.0 | 24 |
| 94 | The evaluation of extracule and intracule densities in the first-row hydrides, LiH, BeH, BH, CH, NH, OH and FH, from self-consistent field molecular orbital wavefunctions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 1095-1105. | 1.5 | 23 |
| 95 | High-level ab initio calculations on low barrier hydrogen bonds and proton bound homodimers. Chemical Physics Letters, 2010, 493, 37-44. | 2.6 | 23 |
| 96 | The Electronic Structure of the Al ₃ ⁺ Anion: Is it Aromatic?. Chemistry - A European Journal, 2015, 21, 9610-9614. | 3.3 | 23 |
| 97 | Atomic configuration-interaction electron-electron counterbalance densities. Physical Review A, 1999, 59, 4255-4258. | 2.5 | 22 |
| 98 | Aluminum(III) Interactions with the Acid Derivative Amino Acid Chains. Journal of Physical Chemistry A, 2000, 104, 7053-7060. | 2.5 | 22 |
| 99 | Clusters of Group II-VI Materials: CdO (i = 15). Journal of Physical Chemistry A, 2003, 107, 9918-9923. | 2.5 | 22 |
| 100 | Protein Side Chains Facilitate Mg/Al Exchange in Model Protein Binding Sites. ChemPhysChem, 2007, 8, 2119-2124. | 2.1 | 22 |
| 101 | Performance of PNOF3 for reactivity studies: X[BO] and X[CN] isomerization reactions (X = H, Li) as a case study. Physical Chemistry Chemical Physics, 2010, 12, 12931. | 2.8 | 22 |
| 102 | Natural Orbital Functional Theory and Reactivity Studies of Diradical Rearrangements: Ethylene Torsion as a Case Study. ChemPhysChem, 2011, 12, 1673-1676. | 2.1 | 22 |
| 103 | An interpretation of the absorption and emission spectra of the gold dimer using modern theoretical tools. Physical Chemistry Chemical Physics, 2012, 14, 8732. | 2.8 | 22 |
| 104 | Correlation holes for the helium dimer. Journal of Chemical Physics, 2008, 128, 134102. | 3.0 | 21 |
| 105 | Elucidating the 3D structures of Al(ⁱⁱⁱ)-Al ² complexes: a template free strategy based on the pre-organization hypothesis. Chemical Science, 2017, 8, 5041-5049. | 7.4 | 21 |
| 106 | Chirality-Induced Electron Spin Polarization and Enantiospecific Response in Solid-State Cross-Polarization Nuclear Magnetic Resonance. ACS Nano, 2018, 12, 11426-11433. | 14.6 | 21 |
| 107 | Conformations and charge distributions in 1,2-dinitrosoethylene and furoxan. 1. An ab initio molecular orbital study. The Journal of Physical Chemistry, 1988, 92, 5094-5096. | 2.9 | 20 |
| 108 | Theoretical studies of possible processes for the interstellar production of phosphorus compounds: reaction of phosphorus(1+) with water. The Journal of Physical Chemistry, 1991, 95, 5443-5445. | 2.9 | 20 |

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|-----|--|-----|-----------|
| 109 | Computational evaluation of pK _a for oxygenated side chain containing amino acids interacting with Aluminum. Theoretical Chemistry Accounts, 2011, 128, 477-484. | 1.4 | 20 |
| 110 | Quantum Dot Photoactivation of Pt(IV) Anticancer Agents: Evidence of an Electron Transfer Mechanism Driven by Electronic Coupling. Journal of Physical Chemistry C, 2014, 118, 8712-8721. | 3.1 | 20 |
| 111 | The effect of TiO ₂ surface on the electron injection efficiency in PbS quantum dot solar cells: a first-principles study. Physical Chemistry Chemical Physics, 2015, 17, 6076-6086. | 2.8 | 20 |
| 112 | The electronic states of Fe ²⁺ . Chemical Physics Letters, 2003, 376, 310-317. | 2.6 | 19 |
| 113 | The first solvation shell of aluminum (III) and magnesium (II) cations in a protein model environment. International Journal of Quantum Chemistry, 2004, 98, 409-424. | 2.0 | 19 |
| 114 | Non-Born-Oppenheimer treatment of the H ₂ Hookean molecule. Journal of Chemical Physics, 2005, 123, 024102. | 3.0 | 19 |
| 115 | Thermally Stable Solids Based on Endohedrally Doped ZnS Clusters. Chemistry - A European Journal, 2009, 15, 5138-5144. | 3.3 | 19 |
| 116 | A theoretical study of the structures and stabilities of (H ₂ PO) ⁺ species and the proton affinities of HPO and POH. The Journal of Physical Chemistry, 1991, 95, 4318-4323. | 2.9 | 18 |
| 117 | Density Functional Studies of the π - σ Charge-Transfer Complex Formed between Ethyne and Chlorine Monofluoride. Journal of Physical Chemistry A, 1997, 101, 3021-3024. | 2.5 | 18 |
| 118 | Ab-Initio Studies of Alternant X ₂ Y ₂ Rings (X = N, P, As, and Sb and Y = O, S, Se, and Te). Planar versus Butterfly Structures. Journal of Physical Chemistry A, 1997, 101, 5574-5579. | 2.5 | 18 |
| 119 | Piriz natural orbital functional study of the dissociation of the radical helium dimer. Journal of Chemical Physics, 2008, 129, 014108. | 3.0 | 18 |
| 120 | Quantum Monte Carlo study of the ground state and low-lying excited states of the scandium dimer. Journal of Chemical Physics, 2008, 128, 194315. | 3.0 | 18 |
| 121 | The Nature of Chemical Bonds from PNOF5 Calculations. ChemPhysChem, 2012, 13, 2297-2303. | 2.1 | 18 |
| 122 | Probing the electronic structure and Au-C chemical bonding in AuCn ⁺ and AuCnH ⁺ (n = 2, 4, and 6) using high-resolution photoelectron spectroscopy. Journal of Chemical Physics, 2016, 145, 064304. | 3.0 | 18 |
| 123 | Theoretical studies of possible processes for interstellar production of phosphorus compounds: reaction of phosphorus(1+) with methane. The Journal of Physical Chemistry, 1991, 95, 6553-6557. | 2.9 | 17 |
| 124 | Aluminum (III) interactions with the side chains of aromatic amino acids. International Journal of Quantum Chemistry, 2002, 90, 859-881. | 2.0 | 17 |
| 125 | Discordant results on the FeO + H ₂ reaction reconciled by quantum Monte Carlo theory. Molecular Physics, 2004, 102, 2635-2637. | 1.7 | 17 |
| 126 | Bound excited states of H ⁺ and He ⁺ in the statically screened Coulomb potential. Physical Review A, 1998, 57, 2550-2555. | 2.5 | 16 |

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|-----|--|------|-----------|
| 127 | Critical conditions for stable dipole-bound dianions. Journal of Chemical Physics, 1999, 110, 11717-11719. | 3.0 | 16 |
| 128 | Electronic excitation energies of ZnSinanoparticles. Nanotechnology, 2006, 17, 4100-4105. | 2.6 | 16 |
| 129 | Exact non-Born-Oppenheimer wave functions for three-particle Hookean systems with arbitrary masses. Physical Review A, 2006, 74, . | 2.5 | 16 |
| 130 | Sandwich Complexes of the Metalloaromatic $\text{I}^{3-}\text{Al}^{3+}\text{R}^{3-}$ Ligand. Journal of the American Chemical Society, 2009, 131, 6949-6951. | 13.7 | 16 |
| 131 | Quantum chemical study of the catalytic activation of methane by copper oxide and copper hydroxide cations. Physical Chemistry Chemical Physics, 2013, 15, 1148-1153. | 2.8 | 16 |
| 132 | Mapping the affinity of aluminum(Al^{3+}) for biophosphates: interaction mode and binding affinity in $\text{Al}^{3+}:\text{ATP}$ complexes. Physical Chemistry Chemical Physics, 2014, 16, 20107. | 2.8 | 16 |
| 133 | Theoretical study of possible processes for the interstellar production of phosphorus compounds. Reaction of phosphorus(1^+) with hydrogen sulfide. The Journal of Physical Chemistry, 1993, 97, 1521-1525. | 2.9 | 15 |
| 134 | Field-Mediated Chirality Information Transfer in Molecule–Nanoparticle Hybrids. Journal of Physical Chemistry C, 2020, 124, 1560-1565. | 3.1 | 15 |
| 135 | Intracule and Extracule Densities: Historical Perspectives and Future Prospects. Mathematical and Computational Chemistry, 2000, , 231-248. | 0.3 | 15 |
| 136 | An ab initio SCF-MO study of the decomposition reaction of nitrosoethylene to formaldehyde and hydrogen cyanide. Computational and Theoretical Chemistry, 1992, 258, 167-174. | 1.5 | 14 |
| 137 | Natural orbital functional description of van der Waals interactions: A case study of the effect of the basis set for the helium dimer. International Journal of Quantum Chemistry, 2008, 108, 1660-1663. | 2.0 | 14 |
| 138 | Ab Initio Study of Microsolvated Al^{3+} –Aromatic Amino Acid Complexes. Journal of Physical Chemistry B, 2010, 114, 9017-9022. | 2.6 | 14 |
| 139 | sp^3 Hybrid orbitals and ionization energies of methane from PNOF5. Chemical Physics Letters, 2012, 531, 272-274. | 2.6 | 14 |
| 140 | Doped Aluminum Cluster Anions: Size Matters. Journal of Physical Chemistry A, 2014, 118, 4309-4314. | 2.5 | 14 |
| 141 | Exchange-correlation effects in momentum space for atoms: an analysis of the isoelectronic series of Li_2S and Be_2S . Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 2153-2163. | 1.6 | 13 |
| 142 | Theoretical Studies of Possible Processes for the Interstellar Production of Phosphorus Compounds. The Reaction of P^+ with Acetylene. The Journal of Physical Chemistry, 1995, 99, 6432-6440. | 2.9 | 13 |
| 143 | Structure and Stability of the Endohedrally Doped $(\text{X}@\text{CdSi})_i$, $i=4,9,12,15,16$, $q=0, \pm 1$, $\text{X} = \text{Na}, \text{K}, \text{Cl}, \text{Br}$, Nanoclusters. Journal of Physical Chemistry C, 2010, 114, 2476-2483. | 3.1 | 13 |
| 144 | Carbo-Cages: A Computational Study. Journal of Organic Chemistry, 2014, 79, 5463-5470. | 3.2 | 13 |

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|-----|---|-----|-----------|
| 145 | The trans Effect in Palladium Phosphine Sulfonate Complexes. Journal of Physical Chemistry A, 2017, 121, 7709-7716. | 2.5 | 13 |
| 146 | Probing the structures and bonding of auropolyyenes, $\text{Au}^n(\text{C})_n\text{Au}^n$ ($n = 1-3$), using high-resolution photoelectron imaging. Journal of Chemical Physics, 2018, 149, 144307. | 3.0 | 13 |
| 147 | Dynamic screening of swift hydrogenlike ions moving in condensed matter. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 21-24. | 1.4 | 12 |
| 148 | Transition structures for the reformatsky reaction. A theoretical (MNDO-PM3) study.. Tetrahedron Letters, 1993, 34, 6111-6114. | 1.4 | 12 |
| 149 | Aluminum (III) Interactions with Sulfur-Containing Amino Acid Chains. Journal of Physical Chemistry A, 2001, 105, 7446-7453. | 2.5 | 12 |
| 150 | A reinterpretation of the nature of the Fermi hole. Journal of Chemical Physics, 2004, 120, 540-547. | 3.0 | 12 |
| 151 | Exact non-Born-Oppenheimer wave function for the Hooke-Calogero model of the H ₂ molecule. European Physical Journal D, 2006, 37, 351-359. | 1.3 | 12 |
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