# M Merced Montero-Campillo

List of Publications by Year
in descending order



| 66 | 715 | 567281 | 713466 |
|---|---|---|---|
| papers | citations | 15 h-index | 21 g-index |

| 67 | 67 | 67 | 538 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Trapping CO<sub>2</sub> by Adduct Formation with Nitrogen Heterocyclic Carbenes (NHCs): A Theoretical Study. Chemistry - A European Journal, 2017, 23, 10604-10609. | 3.3 | 45 |
| 2 | The beryllium bond. Advances in Inorganic Chemistry, 2019, 73, 73-121. | 1.0 | 36 |
| 3 | Alkaline-earth (Be, Mg and Ca) bonds at the origin of huge acidity enhancements. Physical Chemistry Chemical Physics, 2018, 20, 2413-2420. | 2.8 | 32 |
| 4 | Modulating weak intramolecular interactions through the formation of beryllium bonds: complexes between squaric acid and BeH2. Journal of Molecular Modeling, 2013, 19, 2759-2766. | 1.8 | 24 |
| 5 | Weak Interactions Get Strong: Synergy between Tetrel and Alkaline-Earth Bonds. Journal of Physical Chemistry A, 2019, 123, 7124-7132. | 2.5 | 24 |
| 6 | Thermodynamic stability of PFOS: M06-2X and B3LYP comparison. Computational and Theoretical Chemistry, 2014, 1046, 81-92. | 2.5 | 22 |
| 7 | Characterizing magnesium bonds: main features of a non-covalent interaction. Theoretical Chemistry Accounts, 2017, 136, 1. | 1.4 | 21 |
| 8 | Binding indirect greenhouse gases OCS and CS2by nitrogen heterocyclic carbenes (NHCs). Physical Chemistry Chemical Physics, 2018, 20, 19552-19559. | 2.8 | 20 |
| 9 | Ternary Complexes Stabilized by Chalcogen and Alkalineâ€Earth Bonds: Crucial Role of Cooperativity and Secondary Noncovalent Interactions. Chemistry - A European Journal, 2019, 25, 11688-11695. | 3.3 | 20 |
| 10 | On the mechanism of rhodium-catalyzed [6+2] cycloaddition of 2-vinylcyclobutanones and alkenes. Tetrahedron, 2008, 64, 6215-6220. | 1.9 | 19 |
| 11 | Thermodynamic Stability of Neutral and Anionic PFOS: A Gas-Phase, n-Octanol, and Water Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 10148-10155. | 2.5 | 19 |
| 12 | Alkyl mercury compounds: an assessment of DFT methods. Theoretical Chemistry Accounts, 2013, 132, 1. | 1.4 | 19 |
| 13 | Spontaneous H<sub>2</sub> Loss through the Interaction of Squaric Acid Derivatives and BeH<sub>2</sub>. Chemistry - A European Journal, 2014, 20, 5309-5316. | 3.3 | 19 |
| 14 | Study of the ferroceneâ€“lithium cation interaction by DFT calculations: an in-depth analysis of the existence of a planetary system. Tetrahedron, 2009, 65, 2368-2371. | 1.9 | 17 |
| 15 | Ab initio and DFT study of the aromaticity of some Fulvalenes derived from Methylidenecyclopropabenzene. Journal of Molecular Modeling, 2007, 13, 919-926. | 1.8 | 16 |
| 16 | Modulating the Proton Affinity of Silanol and Siloxane Derivatives by Tetrel Bonds. Journal of Physical Chemistry A, 2017, 121, 7424-7431. | 2.5 | 16 |
| 17 | Theoretical Study of the [2+2+2+1] Cycloaddition Mechanism of Enediynes and Carbon Monoxide Catalyzed by Rhodium. Journal of Physical Chemistry A, 2008, 112, 2423-2427. | 2.5 | 15 |
| 18 | Hydrogen-Bonding Acceptor Character of Be<sub>3</sub>, the Beryllium Three-Membered Ring. Journal of Physical Chemistry A, 2018, 122, 1472-1478. | 2.5 | 15 |

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|---|---|---|---|
| 19 | Large Protonâ€Affinity Enhancements Triggered by Noncovalent Interactions. Chemistry - A European Journal, 2018, 24, 1971-1977. | 3.3 | 15 |
| 20 | Some Interesting Features of Non-Covalent Interactions. Croatica Chemica Acta, 2014, 87, 291-306. | 0.4 | 14 |
| 21 | Ferrocene and Silicon-Containing Oxathiacrown Macrocycles and Linear Oligo-Oxathioethers Obtained via Thiolâ€“Ene Chemistry of a Redox-Active Bifunctional Vinyldisiloxane. Macromolecules, 2015, 48, 6955-6969. | 4.8 | 14 |
| 22 | Boronâ€Boron Oneâ€Electron Sigma Bonds versus Bâ€Xâ€B Bridged Structures. Chemistry - A European Journal, 2016, 22, 13697-13704. | 3.3 | 13 |
| 23 | Modulating the intrinsic reactivity of molecules through non-covalent interactions. Physical Chemistry Chemical Physics, 2019, 21, 2222-2233. | 2.8 | 13 |
| 24 | Mutual Influence of Pnicogen Bonds and Beryllium Bonds: Energies and Structures in the Spotlight. Journal of Physical Chemistry A, 2020, 124, 5871-5878. | 2.5 | 13 |
| 25 | Multi-Ferrocene-Containing Silanols as Redox-Active Anion Receptors. Organometallics, 2016, 35, 3507-3519. | 2.3 | 12 |
| 26 | Photochemical Behavior of Beryllium Complexes with Subporphyrazines and Subphthalocyanines. Journal of Physical Chemistry A, 2016, 120, 4845-4852. | 2.5 | 12 |
| 27 | Oneâ€Electron Bonds in Frustrated Lewis Pair TPB Ligands: Boron Behaving as a Lewis Base. Angewandte Chemie - International Edition, 2017, 56, 6788-6792. | 13.8 | 11 |
| 28 | UV/Vis Spectra of Subporphyrazines and Subphthalocyanines with Aluminum and Gallium: A Timeâ€Dependent DFT Study. ChemPhysChem, 2013, 14, 915-922. | 2.1 | 10 |
| 29 | Activation of Dinitrogen as A Dipolarophile in 1,3-Dipolar Cycloadditions: A Theoretical Study Using Nitrile Imines as â€œOctetâ€•1,3-Dipoles. Scientific Reports, 2017, 7, 6115. | 3.3 | 10 |
| 30 | Beryllium-based fluorenes as efficient anion sponges. Physical Chemistry Chemical Physics, 2017, 19, 23052-23059. | 2.8 | 10 |
| 31 | Weak interactions and cooperativity effects on disiloxane: a look at the building block of silicones. Molecular Physics, 2018, 116, 1539-1550. | 1.7 | 10 |
| 32 | Using protonation to change a Clâ‹¯N halogen bond in N-Base:ClOH complexes to a Clâ‹¯O halogen bond. Chemical Physics Letters, 2018, 710, 123-128. | 2.6 | 10 |
| 33 | Behavior of Carboxylic Acids upon Complexation with Beryllium Compounds. Journal of Physical Chemistry A, 2014, 118, 5720-5726. | 2.5 | 9 |
| 34 | Protonation of methyluracils in the gas phase: The particular case of 3-methyluracil. International Journal of Mass Spectrometry, 2018, 429, 47-55. | 1.5 | 9 |
| 35 | Oneâ€Electron Bonds in Frustrated Lewis Pair TPB Ligands: Boron Behaving as a Lewis Base. Angewandte Chemie, 2017, 129, 6892-6896. | 2.0 | 8 |
| 36 | Beâ€•and Mgâ€Based Electron and Anion Sponges. ChemPhysChem, 2018, 19, 1701-1706. | 2.1 | 8 |

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|---|---|---|---|
| 37 | Fostering the Basic Instinct of Boron in Boronâ€“Beryllium Interactions. Journal of Physical Chemistry A, 2018, 122, 3313-3319. | 2.5 | 8 |
| 38 | Intramolecular magnesium bonds in malonaldehyde-like systems: a critical view of the resonance-assisted phenomena. Theoretical Chemistry Accounts, 2018, 137, 1. | 1.4 | 8 |
| 39 | Are beryllium-containing biphenyl derivatives efficient anion sponges?. Journal of Molecular Modeling, 2018, 24, 16. | 1.8 | 7 |
| 40 | Complexes between neutral oxyacid beryllium salts and dihydrogen: a possible way for hydrogen storage?. Dalton Transactions, 2018, 47, 12516-12520. | 3.3 | 7 |
| 41 | Density Functional Theory Study of Ruthenium (II)-Catalyzed [2+2+2] Cycloaddition of 1,6-Diynes with Tricarbonyl Compounds. Journal of Physical Chemistry A, 2008, 112, 8116-8120. | 2.5 | 6 |
| 42 | On the stability of [Pb(Proline)]2+ complexes. Reconciling theory with experiment. Chemical Physics Letters, 2014, 598, 91-95. | 2.6 | 6 |
| 43 | Trapping One Electron between Three Beryllium Atoms: Very Strong Oneâ€Electron Threeâ€Center Bonds. ChemPhysChem, 2018, 19, 1068-1074. | 2.1 | 6 |
| 44 | Intervalence charge transfer across noncovalent interactions on vinyl silyl bridged biferrocenyl compounds. Computational and Theoretical Chemistry, 2015, 1053, 281-288. | 2.5 | 5 |
| 45 | Formation of unexpected silicon- and disiloxane-bridged multiferrocenyl derivatives bearing Siâ€“Oâ€“CHî€CH<sub>2</sub> and Siâ€“(CH<sub>2</sub>)<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub> substituents via cleavage of tetrahydrofuran and trapping of its ring fragments. Dalton Transactions, 2017, 46, 11584-11597. | 3.3 | 5 |
| 46 | Gas-phase reactivity tuned through the interaction with alkaline-earth derivatives. Theoretical Chemistry Accounts, 2019, 138, 1. | 1.4 | 5 |
| 47 | Alkylation of uracil and thymine in the gas phase through interaction with alkylmercury compounds. International Journal of Mass Spectrometry, 2019, 436, 153-165. | 1.5 | 5 |
| 48 | Complexes between H<sub>2</sub> and neutral oxyacid beryllium derivatives. The role of angular strain. Molecular Physics, 2019, 117, 1142-1150. | 1.7 | 5 |
| 49 | From Very Strong to Inexistent Beâ”Be Bonds in the Interactions of Be<sub>2</sub> with Ï€â€Systems. ChemPhysChem, 2020, 21, 2701-2708. | 2.1 | 5 |
| 50 | Remote modulation of singletâ€“triplet gaps in carbenes. Chemical Physics Letters, 2018, 694, 48-52. | 2.6 | 4 |
| 51 | On the Structures, Lifetimes, and Infrared Spectra of Alkylmercury Hydrides. ChemPhysChem, 2014, 15, 530-541. | 2.1 | 3 |
| 52 | Beryllium subphthalocyanines self-assembling properties. Canadian Journal of Chemistry, 2016, 94, 1015-1021. | 1.1 | 3 |
| 53 | Are Anions of Cyclobutane Beryllium Derivatives Stabilized through Four-Center One-Electron Bonds?. Journal of Physical Chemistry A, 2020, 124, 1515-1521. | 2.5 | 3 |
| 54 | Spontaneous bond dissociation cascades induced by Be<sub>n</sub> clusters (n = 2,4). Physical Chemistry Chemical Physics, 2021, 23, 6448-6454. | 2.8 | 3 |

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|---|---|---|---|
| 55 | A Theoretical Survey of the UVâ€“Visible Spectra of Axially and Peripherally Substituted Boron Subphthalocyanines. Computation, 2022, 10, 14. | 2.0 | 3 |
| 56 | Stand up for Electrostatics: The Disiloxane Case. ChemPhysChem, 2022, 23, . | 2.1 | 3 |
| 57 | A Theoretical Study of Pericyclic Rearrangements Catalyzed by Lithium. Journal of Physical Chemistry A, 2008, 112, 5218-5223. | 2.5 | 2 |
| 58 | Enhancement of Thermodynamic Gasâ€Phase Acidity and Basicity of Water by Means of Secondary Interactions. ChemPhysChem, 2018, 19, 2486-2491. | 2.1 | 2 |
| 59 | The Importance of Strain (Preorganization) in Beryllium Bonds. Molecules, 2020, 25, 5876. | 3.8 | 2 |
| 60 | Bonding between electron-deficient atoms: strong Lewis-acid character preserved in Xâ€“Yâ€“X (X = B, Al;) Tj ETQq0 0 0 rgBT /Overlock | 2.8 | 2 |
| 61 | Clustering of Electron Deficient Bâ€•and Beâ€Containing Analogues: In the Fight for Tetracoordination, Beryllium Takes the Lead. European Journal of Inorganic Chemistry, 2021, 2021, 4393-4401. | 2.0 | 2 |
| 62 | Significant bonding rearrangements triggered by Mg4 clusters. Journal of Chemical Physics, 2021, 154, 044302. | 3.0 | 2 |
| 63 | Charge Transfer in Beryllium Bonds and Cooperativity of Beryllium and Halogen Bonds. A New Perspective. Challenges and Advances in Computational Chemistry and Physics, 2016, , 461-489. | 0.6 | 1 |
| 64 | Large Stabilization Effects by Intramolecular Beryllium Bonds in Ortho-Benzene Derivatives. Molecules, 2021, 26, 3401. | 3.8 | 1 |
| 65 | Malonaldehyde-like Systems: BeF2 Clustersâ€”A Subtle Balance between Hydrogen Bonds, Beryllium Bonds, and Resonance. Sci, 2022, 4, 7. | 3.0 | 0 |
| 66 | On predicting bonding patterns of small clusters of alkaline-earth (Be, Mg) and triel (B, Al) fluorides: a balance between atomic size and electron-deficient character. Molecular Physics, 0, , . | 1.7 | 0 |