

# Mauricio Jeomar Piotrowski

## List of Publications by Citations

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42  
papers

953  
citations

17  
h-index

30  
g-index

46  
ext. papers

1,153  
ext. citations

3.6  
avg, IF

4.59  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 42 | Density functional theory investigation of 3d, 4d, and 5d 13-atom metal clusters. <i>Physical Review B</i> , <b>2010</b> , 81,  | 3.3 | 180       |
| 41 | The role of charge states in the atomic structure of Cu(n) and Pt(n) (n = 2-14 atoms) clusters: a DFT investigation. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10813-21   | 2.8 | 77        |
| 40 | Evolution of the structural, energetic, and electronic properties of the 3d, 4d, and 5d transition-metal clusters (30 TM systems for n = 2-15): a density functional theory investigation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15484-15502                     | 3.6 | 74        |
| 39 | Theoretical Study of the Structural, Energetic, and Electronic Properties of 55-Atom Metal Nanoclusters: A DFT Investigation within van der Waals Corrections, SpinOrbit Coupling, and PBE+U of 42 Metal Systems. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 28844-28856 | 3.8 | 59        |
| 38 | Platinum-Based Nanoalloys Pt <sub>n</sub> TM <sub>55-n</sub> (TM = Co, Rh, Au): A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 18432-18439  | 3.8 | 53        |
| 37 | Structure, Electronic, and Magnetic Properties of Binary Pt <sub>n</sub> TM <sub>55-n</sub> (TM = Fe, Co, Ni, Cu, Zn) Nanoclusters: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15669-15679                                    | 3.8 | 51        |
| 36 | Reconstruction of core and surface nanoparticles: The example of Pt <sub>55</sub> and Au <sub>55</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,   | 3.3 | 50        |
| 35 | The role of electron localization in the atomic structure of transition-metal 13-atom clusters: the example of Co <sub>13</sub> , Rh <sub>13</sub> , and Hf <sub>13</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 17242-8  | 3.6 | 38        |
| 34 | Structural formation of binary PtCu clusters: A density functional theory investigation. <i>Computational Materials Science</i> , <b>2015</b> , 98, 278-286   | 3.2 | 34        |
| 33 | Hybrid density functional study of small Rh <sub>n</sub> (n=2-15) clusters. <i>Physical Review B</i> , <b>2012</b> , 86,  | 3.3 | 32        |
| 32 | Theoretical Investigation of Small Transition-Metal Clusters Supported on the CeO <sub>2</sub> (111) Surface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 21438-21446   | 3.8 | 29        |
| 31 | Adsorption of NO on the Rh <sub>13</sub> , Pd <sub>13</sub> , Ir <sub>13</sub> , and Pt <sub>13</sub> Clusters: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20540-20549  | 3.8 | 29        |
| 30 | Bulk structures of PtO and PtO <sub>2</sub> from density functional calculations. <i>Physical Review B</i> , <b>2011</b> , 84,  | 3.3 | 29        |
| 29 | Theoretical Investigation of the Adsorption Properties of CO, NO, and OH on Monometallic and Bimetallic 13-Atom Clusters: The Example of Cu <sub>13</sub> , Pt <sub>7</sub> Cu <sub>6</sub> , and Pt <sub>13</sub> . <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 11565-73 | 2.8 | 24        |
| 28 | Transition-metal 13-atom clusters assessed with solid and surface-biased functionals. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 134105  | 3.9 | 24        |
| 27 | Role of van der Waals corrections for the PtX <sub>2</sub> (X=O, S, Se) compounds. <i>Physical Review B</i> , <b>2013</b> , 88,   | 3.3 | 23        |
| 26 | Structural and Electronic Properties of Bulk ZnX (X = O, S, Se, Te), ZnF, and ZnO/ZnF: A DFT Investigation within PBE, PBE + , and Hybrid HSE Functionals. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 3778-3785  | 2.8 | 17        |

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| 25 | Band alignment and charge transfer predictions of ZnO/ZnX (X = S, Se or Te) interfaces applied to solar cells: a PBE+U theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4953-4961  | 3.6 | 13 |
| 24 | Structural and electronic properties of TM <sub>23</sub> - pAgp (TM = Ni, Pd, and Pt) clusters in the dilute limit (p = 0): A density functional theory investigation. <i>European Physical Journal D</i> , <b>2013</b> , 67, 1                           | 1.3 | 13 |
| 23 | Ab Initio Investigation of the Role of Atomic Radius in the Structural Formation of Pt <sub>n</sub> TM <sub>55-n</sub> (TM = Y, Zr, Nb, Mo, and Tc) Nanoclusters. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7444-7454                   | 3.8 | 12 |
| 22 | CO, NO, and SO adsorption on Ni nanoclusters: a DFT investigation. <i>Dalton Transactions</i> , <b>2020</b> , 49, 6407-6417   | 4.5 | 12 |
| 21 | Adsorption of CO, NO, and H <sub>2</sub> on the Pd <sub>n</sub> Au <sub>55-n</sub> Nanoclusters: A Density Functional Theory Investigation within the van der Waals D3 Corrections. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7431-7439 | 3.8 | 11 |
| 20 | Investigation of CO Adsorption on 13-Atom 4d Clusters. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 537-545  | 6.1 | 11 |
| 19 | Ab Initio Insights into the Formation Mechanisms of 55-Atom Pt-Based Core-Shell Nanoalloys. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1158-1164   | 3.8 | 11 |
| 18 | A theoretical investigation of the structural and electronic properties of 55-atom nanoclusters: The examples of Y-Tc and Pt. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 054310  | 3.9 | 9  |
| 17 | Density functional investigation of the adsorption effects of PH and SH on the structure stability of the Au and Pt nanoclusters. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 164304  | 3.9 | 7  |
| 16 | Atomic structure of the La/Pt(111) and Ce/Pt(111) surfaces revealed by DFT+U calculations. <i>RSC Advances</i> , <b>2015</b> , 5, 521-528   | 3.7 | 7  |
| 15 | A theoretical indicator of transition-metal nanoclusters applied in the carbon nanotube nucleation process: a DFT study. <i>Dalton Transactions</i> , <b>2020</b> , 49, 492-503   | 4.3 | 6  |
| 14 | How does the acidic milieu interfere in the capability of ruthenium nitrosyl complexes to release nitric oxide?. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 773-779  | 3.6 | 4  |
| 13 | On the recognition of chloride, bromide and nitrate anions by anthracene-quaramide conjugated compounds: a computational perspective. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 17831-17839   | 3.6 | 3  |
| 12 | Tracking the role of trans-ligands in ruthenium-NO bond lability: computational insight. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11448-11456  | 3.6 | 2  |
| 11 | What is the driving force behind molecular triangles and their guests? A quantum chemical perspective about host-guest interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 19213-19222   | 3.6 | 2  |
| 10 | Energy Decomposition to Access the Stability Changes Induced by CO Adsorption on Transition-Metal 13-Atom Clusters. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 2294-2301   | 6.1 | 2  |
| 9  | Bare versus protected tetrairidium clusters by density functional theory. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29480-29492  | 3.6 | 2  |
| 8  | The anionic recognition mechanism based on polyol and boronic acid receptors. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 5564-5571   | 3.6 | 1  |

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| 7 | Stability Changes in Iridium Nanoclusters via Monoxide Adsorption: A DFT Study within the van der Waals Corrections. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 4805-4818  | 2.8 | 1 |
| 6 | The design of anion- $\pi$ interactions and hydrogen bonds for the recognition of chloride, bromide and nitrate anions. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 11455-11465                                | 3.6 | 1 |
| 5 | Double-bond elucidation for arsagermene with a tricoordinate germanium center: a theoretical survey. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 15681-15690  | 3.6 | 0 |
| 4 | Electrochemical, theoretical, and analytical investigation of the phenylurea herbicide fluometuron at a glassy carbon electrode. <i>Electrochimica Acta</i> , <b>2022</b> , 408, 139945   | 6.7 | 0 |
| 3 | The simultaneous recognition mechanism of cations and anions using macrocyclic-iodine structures: insights from dispersion-corrected DFT calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 23795-23803 | 3.6 | 0 |
| 2 | An investigation of the photovoltaic parameters of ZnS grown on ZnO(101). <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 20600-20609   | 3.6 | 0 |
| 1 | Designing boron and metal complexes for fluoride recognition: a computational perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22768-22778   | 3.6 |   |