

Edison H Osorio

List of Publications by Year in descending order

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74
papers

1,905
citations

185998

28
h-index

276539

41
g-index

79
all docs

79
docs citations

79
times ranked

1877
citing authors

#	ARTICLE	IF	CITATIONS
1	B ₁₈ ²⁺ : a quasi-planar bowl member of the Wankel motor family. <i>Chemical Communications</i> , 2014, 50, 8140-8143.	2.2	107
2	Minimizing the Risk of Reporting False Aromaticity and Antiaromaticity in Inorganic Heterocycles Following Magnetic Criteria. <i>Inorganic Chemistry</i> , 2014, 53, 3579-3585.	1.9	80
3	Influence of cultivar and ripening time on bioactive compounds and antioxidant properties in Cape gooseberry (<i>Physalis peruviana</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1562-1569.	1.7	68
4	Dynamical behavior of boron clusters. <i>Nanoscale</i> , 2016, 8, 17639-17644.	2.8	67
5	Structure and bonding of IrB ₁₂ ⁺ : converting a rigid boron B ₁₂ platelet to a Wankel motor. <i>RSC Advances</i> , 2016, 6, 27177-27182.	1.7	67
6	Analysis of Why Boron Avoids sp ² Hybridization and Classical Structures in the B _n H _{n+2} Series. <i>Chemistry - A European Journal</i> , 2012, 18, 9677-9681.	1.7	62
7	Chemodiversity, chemotaxonomy and chemoecology of Amaryllidaceae alkaloids. <i>The Alkaloids Chemistry and Biology</i> , 2020, 83, 113-185.	0.8	58
8	Neuroprotective activity and acetylcholinesterase inhibition of five Amaryllidaceae species: A comparative study. <i>Life Sciences</i> , 2015, 122, 42-50.	2.0	57
9	Planar tetracoordinate carbons with a double bond in CAI ₃ E clusters. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8769-8775.	1.3	57
10	Isomerization Energy Decomposition Analysis for Highly Ionic Systems: Case Study of Starlike E ₅ Li ₇ ⁺ Clusters. <i>Chemistry - A European Journal</i> , 2013, 19, 2305-2310.	1.7	56
11	Planar pentacoordinate carbon atoms embedded in a metallocene framework. <i>Chemical Communications</i> , 2017, 53, 138-141.	2.2	56
12	Structural evolution of small gold clusters doped by one and two boron atoms. <i>Journal of Computational Chemistry</i> , 2014, 35, 2288-2296.	1.5	55
13	Alkaloid metabolite profiles by GC/MS and acetylcholinesterase inhibitory activities with binding-mode predictions of five Amaryllidaceae plants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 222-228.	1.4	53
14	Antioxidant capacity and phenolic content of commonly used anti-inflammatory medicinal plants in Colombia. <i>Industrial Crops and Products</i> , 2015, 70, 272-279.	2.5	49
15	Theoretical Study of the Antioxidant Activity of Quercetin Oxidation Products. <i>Frontiers in Chemistry</i> , 2019, 7, 818.	1.8	48
16	Stop rotating! One substitution halts the B ₁₉ ⁺ motor. <i>Chemical Communications</i> , 2014, 50, 10680.	2.2	47
17	Is Al ₂ Cl ₆ Aromatic? Cautions in Superficial NICS Interpretation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5529-5533.	1.1	45
18	Fruits of selected wild and cultivated Andean plants as sources of potential compounds with antioxidant and anti-aging activity. <i>Industrial Crops and Products</i> , 2016, 85, 341-352.	2.5	45

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19	Scalar and Spin-Orbit Relativistic Corrections to the NICS and the Induced Magnetic Field: The case of the $E_{12}^{2\alpha}$ Spherenes (E = Ge, Sn, Pb). <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2701-2705.	2.3	44
20	Exploiting electronic strategies to stabilize a planar tetracoordinate carbon in cyclic aromatic hydrocarbons. <i>Chemical Communications</i> , 2017, 53, 12112-12115.	2.2	42
21	Why is quercetin a better antioxidant than taxifolin? Theoretical study of mechanisms involving activated forms. <i>Journal of Molecular Modeling</i> , 2013, 19, 2165-2172.	0.8	38
22	Alkaloids of Amaryllidaceae as Inhibitors of Cholinesterases (AChEs and BChEs): An Integrated Bioguided Study. <i>Phytochemical Analysis</i> , 2018, 29, 217-227.	1.2	38
23	Passiflora tarminiana fruits reduce UVB-induced photoaging in human skin fibroblasts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 168, 78-88.	1.7	37
24	Cholinesterase Inhibition Activity, Alkaloid Profiling and Molecular Docking of Chilean Rhodophiala (Amaryllidaceae). <i>Molecules</i> , 2018, 23, 1532.	1.7	34
25	Cyanide-isocyanide isomerization: stability and bonding in noble gas inserted metal cyanides (metal =) Tj ETQq1 1.0.784314 rgBT /Dv	1.3	32
26	Carbon rings decorated with group 14 elements: new aromatic clusters containing planar tetracoordinate carbon. <i>New Journal of Chemistry</i> , 2019, 43, 6781-6785.	1.4	31
27	Low-Density Lipoprotein (LDL)-Antioxidant Biflavonoids from Garcinia madruno. <i>Molecules</i> , 2013, 18, 6092-6100.	1.7	30
28	10- π -Electron arenes à la carte: structure and bonding of the $[E_n(C_nH_n)]^{6+}$ (E = Ca, Sr, Ba; n = 6-8) complexes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11909-11918.	1.3	29
29	A holistic anti-aging approach applied in selected cultivated medicinal plants: A view of photoprotection of the skin by different mechanisms. <i>Industrial Crops and Products</i> , 2017, 97, 431-439.	2.5	29
30	Theoretical design of stable small aluminium-magnesium binary clusters. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2222-2229.	1.3	26
31	Hippeastrum reticulatum (Amaryllidaceae): Alkaloid Profiling, Biological Activities and Molecular Docking. <i>Molecules</i> , 2017, 22, 2191.	1.7	23
32	Amaryllidaceae alkaloids as agents with protective effects against oxidative neural cell injury. <i>Life Sciences</i> , 2018, 203, 54-65.	2.0	21
33	Assembling Small Silicon Clusters Using Criteria of Maximum Matching of the Fukui Functions. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3995-4001.	2.3	20
34	Stable NCNgNSi (Ng=Kr, Xe, Rn) Compounds with Covalently Bound CNgN Unit: Possible Isomerization of NCNSi through the Release of the Noble Gas Atom. <i>Chemistry - A European Journal</i> , 2018, 24, 2879-2887.	1.7	20
35	Exploring the Potential Energy Surface of E_2P_4 Clusters (E=Group...13 Element): The Quest for Inverse Carbon-Free Sandwiches. <i>Chemistry - A European Journal</i> , 2014, 20, 4583-4590.	1.7	19
36	Boron Nanowheels with Axles Containing Noble Gas Atoms: Viable Noble Gas Bound M_{10}^{α} Clusters (M=Nb, Ta). <i>Chemistry - A European Journal</i> , 2018, 24, 3590-3598.	1.7	19

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37	Exploring the potential energy surface of small lead clusters using the gradient embedded genetic algorithm and an adequate treatment of relativistic effects. <i>RSC Advances</i> , 2018, 8, 145-152.	1.7	18
38	Structure and stability of the Si ₄ Lin (n=1-7) binary clusters. <i>Chemical Physics Letters</i> , 2012, 522, 67-71.	1.2	17
39	Ultrasound-assisted phase-transfer catalysis method in an aqueous medium to promote the Knoevenagel reaction: Advantages over the conventional and microwave-assisted solvent-free/catalyst-free method. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1666-1674.	3.8	17
40	Theobroma cacao L. compounds: Theoretical study and molecular modeling as inhibitors of main SARS-CoV-2 protease. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111764.	2.5	17
41	Double-Ring Epimerization in the Biosynthesis of Clavulanic Acid. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9413-9426.	1.1	15
42	A characterization of the two-step reaction mechanism of phenol decomposition by a Fenton reaction. <i>Chemical Physics Letters</i> , 2015, 640, 16-22.	1.2	14
43	Thermoluminescence glow curves analysis of pure and CeO ₂ -doped Li ₂ O-Al ₂ O ₃ -SiO ₂ glass ceramics. <i>Journal of Luminescence</i> , 2009, 129, 657-660.	1.5	12
44	Neuroprotection and improvement of the histopathological and behavioral impairments in a murine Alzheimer's model treated with Zephyranthes carinata alkaloids. <i>Biomedicine and Pharmacotherapy</i> , 2019, 110, 482-492.	2.5	12
45	Chemical Profiling and Cholinesterase Inhibitory Activity of Five Phaedoranassa Herb. (Amaryllidaceae) Species from Ecuador. <i>Molecules</i> , 2020, 25, 2092.	1.7	12
46	Ligand-Supported E ₃ Clusters (E=Si-Sn). <i>Chemistry - A European Journal</i> , 2017, 23, 7463-7473.	1.7	11
47	Exploring the Potential Energy Surface of Trimetallic Deltahedral Zintl Ions: Lowest-Energy [Sn ₆ Ge ₂ Bi] ³⁺ and [(Sn ₆ Ge ₂ Bi) ₂] ⁴⁺ Structures. <i>Inorganic Chemistry</i> , 2019, 58, 10057-10064.	1.9	10
48	Revisiting the Rearrangement of Dewar Thiophenes. <i>Molecules</i> , 2020, 25, 284.	1.7	10
49	The importance of dynamics studies on the design of sandwich structures: a CrB ₂₄ case. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18336-18341.	1.3	9
50	Antiaging activity, molecular docking, and prediction of percutaneous absorption parameters of quinoline-hydrazone hybrids. <i>Medicinal Chemistry Research</i> , 2019, 28, 1959-1973.	1.1	9
51	Unique magnetic shielding and bonding in Pnictogen nortricyclane Zintl clusters. <i>Chemical Physics Letters</i> , 2020, 749, 137414.	1.2	9
52	Theoretical study of the Si ⁿ (BH) _n and Na(Si ⁿ (BH) _n) (n = 0-5) systems. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16326.	1.3	8
53	Structure and Bonding of Alkali-Metal Pentalenides. <i>Organometallics</i> , 2017, 36, 310-317.	1.1	8
54	Mechanistic insights into the phosphoryl transfer reaction in cyclin-dependent kinase 2: A QM/MM study. <i>PLoS ONE</i> , 2019, 14, e0215793.	1.1	8

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55	Understanding the Central Location of a Hexagonal Hole in a B_{36} Cluster. Chemistry - an Asian Journal, 2016, 11, 3220-3224.	1.7	7
56	Alkaloids of <i>Phaedranassa dubia</i> (Kunth) J.F. Macbr. and <i>Phaedranassa brevifolia</i> Meerow (Amaryllidaceae) from Ecuador and its cholinesterase-inhibitory activity. South African Journal of Botany, 2021, 136, 91-99.	1.2	7
57	Crystal structure, Hirshfeld surface analysis and DFT studies of N-(4-acetylphenyl)quinoline-3-carboxamide. Journal of Molecular Structure, 2021, 1246, 131162.	1.8	7
58	In vitro and in silico analysis of galanthine from <i>Zephyranthes carinata</i> as an inhibitor of acetylcholinesterase. Biomedicine and Pharmacotherapy, 2022, 150, 113016.	2.5	7
59	Do planar tetracoordinate tin complexes really exist?. Dalton Transactions, 2013, 42, 11180.	1.6	6
60	Nonclassical 21-Homododecahedryl Cation Rearrangement Revisited. Organic Letters, 2016, 18, 1140-1142.	2.4	6
61	Synthesis and characterization of thermoluminescent glass-ceramics $Li_2O \cdot Al_2O_3 \cdot SiO_2 \cdot CeO_2$. Journal of Luminescence, 2009, 129, 836-839.	1.5	5
62	Why $CpAlCr(CO)_5$ is linear while $CpInCr(CO)_5$ is not? Understanding the structure and bonding of the $CpECr(CO)_5$ ($E = \text{Group 13 element}$) complexes. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	5
63	The effects of halogen elements on the opening of an icosahedral B_{12} framework. Journal of Chemical Physics, 2017, 147, 144302.	1.2	5
64	Activation and diffusion of ammonia borane hydrogen on gold tetramers. International Journal of Quantum Chemistry, 2018, 118, e25567.	1.0	5
65	Isoelectronic substitution from Si_5^{2+} to $Al_5H_5^{2+}$: Exploration of the series $Si_5^{2+}(AlH)_2^{2+}$ ($n = 0-5$). Chemical Physics Letters, 2016, 647, 150-156.	1.2	4
66	Reply to the "Comment on "Exploiting electronic strategies to stabilize a planar tetracoordinate carbon in cyclic aromatic hydrocarbons" by V. S. Thimmakonda, <i>Chem. Commun.</i>, 2019, DOI: 10.1039/c9cc04639a. Chemical Communications, 2019, 55, 12721-12722.	2.2	4
67	Sinopsis de la familia Amaryllidaceae en Colombia. Biota Colombiana, 2019, 20, 2-20.	0.1	4
68	Theoretical design of stable hydride clusters: isoelectronic transformation in the $E_n Al_4 H_{7+n}$ series. RSC Advances, 2017, 7, 16069-16077.	1.7	3
69	Insights on the structural and electronic properties of ScC_n , YC_n , LaC_n ($n = 3-6$) systems. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	2
70	Structure-antioxidant activity relationships in boldine and glaucine: a DFT study. New Journal of Chemistry, 2021, 45, 590-596.	1.4	2
71	Amaryllidaceae alkaloids and neuronal cell protection. , 2020, , 135-144.		1
72	Frontispiece: Stable $NCNgNSi$ ($Ng = Kr, Xe, Rn$) Compounds with Covalently Bound $CnNg$ Unit: Possible Isomerization of $NCNSi$ through the Release of the Noble Gas Atom. Chemistry - A European Journal, 2018, 24, .	1.7	0

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73	Structural, thermodynamic and kinetic factors in the desorption/absorption of a hydrogen molecule in the $M_3AlH_{10-x}Na$ (M = Be or Mg; x = 0 or 2) hydrides. <i>New Journal of Chemistry</i> , 2019, 43, 18041-18048.	1.4	0
74	Synthesis, characterization, crystal and molecular structure and theoretical study of N-(naphthalen-1-yl)-2-(piperidin-1-yl) acetamide, a selective butyrylcholinesterase inhibitor. <i>Journal of Molecular Structure</i> , 2022, 1248, 131544.	1.8	0