

# Wilmer E Vallejo Narváez

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

191  
citations

1163117

8  
h-index

1125743

13  
g-index

23  
all docs

23  
docs citations

23  
times ranked

212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acidity and basicity interplay in amide and imide self-association. <i>Chemical Science</i> , 2018, 9, 4402-4413.	7.4	28
2	Bifunctional Thioureas with $\pm$ -Trifluoromethyl or Methyl Groups: Comparison of Catalytic Performance in Michael Additions. <i>Journal of Organic Chemistry</i> , 2016, 81, 7419-7431.	3.2	25
3	The bifunctional catalytic role of water clusters in the formation of acid rain. <i>Chemical Communications</i> , 2017, 53, 3516-3519.	4.1	24
4	On the strength of hydrogen bonding within water clusters on the coordination limit. <i>Journal of Computational Chemistry</i> , 2020, 41, 2266-2277.	3.3	20
5	Stability of doubly and triply H-bonded complexes governed by acidity–basicity relationships. <i>Chemical Communications</i> , 2019, 55, 1556-1559.	4.1	13
6	Design and application of a bifunctional organocatalyst guided by electron density topological analyses. <i>Catalysis Science and Technology</i> , 2017, 7, 4470-4477.	4.1	10
7	Water clusters as bifunctional catalysts in organic chemistry: the hydrolysis of oxirane and its methyl derivatives. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6776-6780.	2.8	9
8	Density functional theory and RRKM calculations of the gas-phase unimolecular rearrangements of methylfuran and pyran ions before fragmentations. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1452-1458.	1.6	8
9	The effect of chiral <i>N</i> -substituents with methyl or trifluoromethyl groups on the catalytic performance of mono- and bifunctional thioureas. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 10045-10051.	2.8	8
10	Synthesis and characterization of organotin(IV) semiconductors and their applications in optoelectronics. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109840.	4.0	6
11	Density functional theory and RRKM calculations of decompositions of the metastable $C_2,4$ -pentadienyl molecular ions. <i>Journal of Mass Spectrometry</i> , 2010, 45, 722-733.	1.6	5
12	Relationships between DFT/RRKM Branching Ratios of the Complementary Fragment Ions $[C_5H_5O]^+$ and $[M - C_5H_5O]^+$ and Relative Abundances in the EI Mass Spectrum of <i>N</i> -(2-Furylmethyl)aniline. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12136-12147.	2.5	5
13	Bifunctional squaramides with benzyl-like fragments: analysis of $CH\cdots\pi$ interactions by a multivariate linear regression model and quantum chemical topology. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3217-3227.	4.5	5
14	Novel 2D allotropic forms and nanoflakes of silicon, phosphorus, and germanium: a computational study. <i>Journal of Molecular Modeling</i> , 2021, 27, 142.	1.8	5
15	Electronic Structure and Noncovalent Interactions within Ion–Radical Complexes of <i>N</i> -(2-Furylmethyl)aniline Molecular Ions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2098-2110.	2.5	4
16	Simple method to estimate relative hydrogen bond basicities of amides and imides in chloroform. <i>Journal of Molecular Structure</i> , 2018, 1173, 608-611.	3.6	4
17	In silico modeling: electronic properties of phosphorene monoflakes and biflakes substituted with Al, Si, and S heteroatoms. <i>Journal of Molecular Modeling</i> , 2021, 27, 171.	1.8	3
18	Lithium complexes of doped phosphorene nanoflakes with aluminum, silicon and sulfur. <i>Computational and Theoretical Chemistry</i> , 2022, 1209, 113599.	2.5	3

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19	The electronic structure of van der Waals heterostructures formed by the nanoflakes of black phosphorene with those of graphene and haeckelites: their complexes with Li. <i>Journal of Molecular Modeling</i> , 2020, 26, 204.	1.8	2
20	Synthesis and photophysical properties of conformationally restricted difluoroboron $\hat{1}^2$ -diketonate complexes of 1-indanone derivatives. <i>Tetrahedron</i> , 2020, 76, 131457.	1.9	2
21	Electronic structure of hybrid pentaheptite carbon nanoflakes containing boron-nitrogen motifs. <i>Journal of Molecular Modeling</i> , 2020, 26, 72.	1.8	2
22	Oligomeric approach to 2D materials modeling. <i>Mundo Nano Revista Interdisciplinaria En Nanociencia Y NanotecnologÃa</i> , 2021, 15, 1e-19e.	0.1	0