

# Francisco MÃ©ndez Ruiz

## List of Publications by Year in descending order

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45  
papers

1,651  
citations

394421

19  
h-index

289244

40  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1308  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Hard and Soft Acids and Bases Principle: An Atoms in Molecules Viewpoint. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4591-4593.	2.9	302
2	Chemical Reactivity of Enolate Ions: The Local Hard and Soft Acids and Bases Principle Viewpoint. <i>Journal of the American Chemical Society</i> , 1994, 116, 9298-9301.	13.7	282
3	Relationship between energy and hardness differences. <i>The Journal of Physical Chemistry</i> , 1993, 97, 4059-4063.	2.9	120
4	Synthesis of fullerenes. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 526-539.	1.9	101
5	A Hard-Soft Acid-Base and DFT Analysis of Singlet-Triplet Gaps and the Addition of Singlet Carbenes to Alkenes. <i>Journal of Organic Chemistry</i> , 1999, 64, 7061-7066.	3.2	94
6	1,3-Dipolar Cycloaddition Reactions: A DFT and HSAB Principle Theoretical Model. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6292-6296.	2.5	91
7	Regio- and Stereoselectivity of Captodative Olefins in 1,3-Dipolar Cycloadditions. A DFT/HSAB Theory Rationale for the Observed Regiochemistry of Nitrones. <i>Journal of Organic Chemistry</i> , 2001, 66, 1252-1263.	3.2	72
8	Analysis of the bonding and reactivity of H and the Al <sub>13</sub> cluster using density functional concepts. <i>Journal of Chemical Physics</i> , 2003, 119, 5128-5141.	3.0	55
9	Local softness and chemical reactivity of maleimide: nucleophilic addition. <i>Computational and Theoretical Chemistry</i> , 1992, 277, 81-86.	1.5	54
10	Redox modulation of oxidative stress by Mn porphyrin-based therapeutics: The effect of charge distribution. <i>Dalton Transactions</i> , 2008, , 1233.	3.3	44
11	Highly regioselective radical alkylation of 3-substituted pyrroles. <i>Tetrahedron Letters</i> , 2007, 48, 4515-4518.	1.4	41
12	One-Step Synthesis and Highly Regio- and Stereoselective Diels-Alder Cycloadditions of Novelexo-2-Oxazolidinone Dienes. <i>Journal of Organic Chemistry</i> , 1997, 62, 4105-4115.	3.2	40
13	The Basicity of p-Substituted Phenolates and the Elimination-Substitution Ratio in p-Nitrophenethyl Bromide: A HSAB Theoretical Study. <i>Journal of Organic Chemistry</i> , 1998, 63, 5774-5778.	3.2	38
14	Fukui Function as a Descriptor of the Imidazolium Protonated Cation Resonance Hybrid Structure. <i>Organic Letters</i> , 2004, 6, 1781-1783.	4.6	34
15	The Fukui function of an atom in a molecule: A criterion to characterize the reactive sites of chemical species. <i>Journal of Chemical Sciences</i> , 1994, 106, 183-193.	1.5	34
16	Chemical Reactivity of the Imidazole: A Semblance of Pyridine and Pyrrole?. <i>Organic Letters</i> , 2011, 13, 972-975.	4.6	32
17	Synthesis of carbon spheres by atmospheric pressure chemical vapor deposition from a serial of aromatic hydrocarbon precursors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 112, 78-85.	2.7	26
18	The Local HSAB Principle and Bond Dissociation Energy of p-Substituted Phenol. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5874-5875.	2.5	25

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19	Selectivity in 1,3-Dipolar Cycloadditions of Î²-Substituted Captodative Olefins â€“ An Experimental and DFT Transition State Study. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2352-2364.	2.4	22
20	Is the Hydrogen Atomic Charge Representative of the Acidity of Parasubstituted Phenols?. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4526-4530.	2.5	16
21	Oxazole as an Electron-Deficient Diene in the Dielsâ€“Alder Reaction. <i>Organic Letters</i> , 2011, 13, 6358-6361.	4.6	15
22	Theoretical Reactivity Study of Indol-4-Ones and Their Correlation with Antifungal Activity. <i>Molecules</i> , 2017, 22, 427.	3.8	13
23	Influence of Fluorine Atoms and Aromatic Rings on the Acidity of Ethanol. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10753-10758.	2.5	11
24	Deep Eutectic Solvent Choline Chloride/ <i>p</i> -toluenesulfonic Acid and Water Favor the Enthalpy-Driven Binding of Arylamines to Maleimide in Aza-Michael Addition. <i>Journal of Organic Chemistry</i> , 2021, 86, 223-234.	3.2	11
25	Chemical reactivity of hypervalent silicon compounds: The local hard and soft acids and bases principle viewpoint. <i>Journal of Chemical Sciences</i> , 2005, 117, 525-531.	1.5	9
26	Design and Synthesis of Anti-MRSA Benzimidazolylbenzene-sulfonamides. QSAR Studies for Prediction of Antibacterial Activity. <i>Molecules</i> , 2011, 16, 175-189.	3.8	8
27	The Diels-Alder Cycloaddition Reaction of Substituted Hemifullerenes with 1,3-Butadiene: Effect of Electron-Donating and Electron-Withdrawing Substituents. <i>Molecules</i> , 2016, 21, 200.	3.8	7
28	Growth of Fullerene Fragments Using the Diels-Alder Cycloaddition Reaction: First Step towards a C60 Synthesis by Dimerization. <i>Molecules</i> , 2013, 18, 2243-2254.	3.8	6
29	Understanding the Nucleophilic Character and Stability of the Carbanions and Alkoxides of 1-(9-Anthryl)ethanol and Derivatives. <i>Molecules</i> , 2013, 18, 10254-10265.	3.8	6
30	Nucleophilic Attacks on Maleic Anhydride: A Density Functional Theory Approach. , 1991, , 387-400.		5
31	â€œSynthesis of carbon nanomaterials by chemical vapor deposition method using green chemistry principlesâ€“, 2021, , 273-314.		5
32	Theoretical rate constant of methane oxidation from the conventional transition-state theory. <i>Journal of Molecular Modeling</i> , 2018, 24, 294.	1.8	4
33	Analysis of the Gas Phase Acidity of Substituted Benzoic Acids Using Density Functional Concepts. <i>Molecules</i> , 2020, 25, 1631.	3.8	4
34	Electrophilic Modulation of the Superoxide Anion Radical Scavenging Ability of Copper(II) Complexes with 4-Methyl Imidazole. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2394-2401.	2.5	4
35	Nucleus-Independent Chemical Shift (NICS) as a Criterion for the Design of New Antifungal Benzofuranones. <i>Molecules</i> , 2021, 26, 5078.	3.8	4
36	Composite synthesis from carbon nanotubes and styrene oligomers, the functionalization and magnetic field effect in their properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7461-7469.	2.2	4

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37	Dimerization of pentacyclopentacorannulene C <sub>30</sub> H <sub>10</sub> as a strategy to produce C <sub>60</sub> H <sub>20</sub> as a precursor for C <sub>60</sub> . RSC Advances, 2020, 10, 3689-3693.	3.6	3
38	Protophilicity index and protofelicity equalization principle: new measures of Brønsted-Lowry-Lewis acid-base interactions. Journal of Molecular Modeling, 2013, 19, 3961-3967.	1.8	2
39	Elimination vs Substitution Reaction. A Dichotomy between Brønsted-Lowry and Lewis Basicity. Organic Letters, 2015, 17, 767-769.	4.6	2
40	Effect of methyl substituents in the reactivity of methylxanthines. Journal of Molecular Modeling, 2018, 24, 331.	1.8	2
41	Stoichiometry, Association Constant, and Solvation Model of Chiral Hydroxyfuranones in the Presence of Pirkle's Alcohols. Spectroscopy Letters, 2011, 44, 168-175.	1.0	1
42	Hyperconjugation enhances electrophilic addition to monocyclic monoterpenes: a Fukui function perspective. Journal of Molecular Modeling, 2018, 24, 300.	1.8	1
43	Nucleophilic Attack at the Pyridine Nitrogen Atom in a Bis(imino)pyridine System: The Local Hard and Soft Acids and Bases Principle Perspective. Journal of the Mexican Chemical Society, 2017, 56, .	0.6	1
44	Theoretical study of the regioselective cyclization of enamines in the construction of benzofurans and indoles. Journal of Molecular Modeling, 2016, 22, 116.	1.8	0
45	Green Synthesis of Symmetric Dimaleamic Acids from Dianilines and Maleic Anhydride: Behind New Bidentate Ligands for MOFs. Chemistry Proceedings, 2020, 3, .	0.1	0