Federico Iribarne

List of Publications by Year
in descending order

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30 papers	830 citations	471509 17 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	1064 citing authors

#	Article	IF	Citations
1	Comparative Study of Defect Reactivity in Graphene. Journal of Physical Chemistry C, 2013, 117, 19048-19055.	3.1	149
2	Theoretical characterization of sulfur and nitrogen dual-doped graphene. Computational and Theoretical Chemistry, 2014, 1049, 13-19.	2.5	80
3	On the hydrogen addition to graphene. Computational and Theoretical Chemistry, 2009, 907, 93-103.	1.5	57
4	Monolayer and Bilayer Graphene Functionalized with Nitrene Radicals. Journal of Physical Chemistry C, 2011, 115, 195-203.	3.1	53
5	The 1,3 dipolar cycloaddition of azomethine ylides to graphene, single wall carbon nanotubes, and C60. International Journal of Quantum Chemistry, 2010, 110, 1764-1771.	2.0	48
6	Hydrogen storage in doped biphenylene based sheets. Computational and Theoretical Chemistry, 2015, 1062, 30-35.	2.5	48
7	[2 + 2] Cycloadditions onto graphene. Journal of Materials Chemistry, 2012, 22, 5470.	6.7	43
8	Thiophene adsorption on Single Wall Carbon Nanotubes and graphene. Computational and Theoretical Chemistry, 2010, 957, 114-119.	1.5	41
9	A Firstâ€Principles Study on the Interaction between Alkyl Radicals and Graphene. Chemistry - A European Journal, 2012, 18, 7568-7574.	3.3	37
10	Cooperative behavior in functionalized graphene: Explaining the occurrence of 1,3 cycloaddition of azomethine ylides onto graphene. Chemical Physics Letters, 2012, 550, 111-117.	2.6	34
11	Hydrogenated double wall carbon nanotubes. Journal of Chemical Physics, 2009, 130, 194704.	3.0	27
12	Theoretical investigation on the interaction between beryllium, magnesium and calcium with benzene, coronene, cirumcoronene and graphene. Chemical Physics, 2014, 430, 1-6.	1.9	22
13	C2V or C6V: Which is the most stable structure of the benzeneâ€“lithium complex?. Chemical Physics Letters, 2013, 573, 15-18.	2.6	21
14	The effect of the dopant nature on the reactivity, interlayer bonding and electronic properties of dual doped bilayer graphene. Physical Chemistry Chemical Physics, 2016, 18, 24693-24703.	2.8	20
15	Dual doped monolayer and bilayer graphene: The case of 4p and 2p elements. Chemical Physics Letters, 2016, 658, 152-157.	2.6	20
16	New Approach to Accomplish the Covalent Functionalization of Boron Nitride Nanosheets: Cycloaddition Reactions. Journal of Physical Chemistry C, 2018, 122, 18583-18587.	3.1	19
17	How is the stacking interaction of bilayer graphene affected by the presence of defects?. Computational and Theoretical Chemistry, 2012, 995, 1-7.	2.5	18
18	Strong N-Doped Graphene: The Case of of Physical Chemistry C, 2015, 119, 15103-15111.	3.1	14

#	Article	IF	Citations
19	Cycloaddition Reactions between Graphene and Fluorinated Maleimides. Journal of Physical Chemistry C, 2017, 121, 13218-13222.	3.1	10
20	Theoretical investigation of the 9,10-bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene (exTTF) dimer. Structural Chemistry, 2015, 26, 171-176.	2.0	9
21	On the band gaps and effective masses of mono and dual doped monolayer graphene. Computational Materials Science, 2017, 137, 20-29.	3.0	9
22	Comparative study of the chemical reactivity of graphene and boron nitride sheets. Computational and Theoretical Chemistry, 2019, 1164, 112538.	2.5	9
23	Reduction chemistry of hexagonal boron nitride sheets and graphene: a comparative study on the effect of alkali atom doping on their chemical reactivity. New Journal of Chemistry, 2020, 44, 5725-5730.	2.8	9
24	Buckycatcher polymer versus fullerene-buckycatcher complex: Which is stronger?. International Journal of Quantum Chemistry, 2015, 115, 1668-1672.	2.0	8
25	Cycloaddition reactions on epitaxial graphene. New Journal of Chemistry, 2019, 43, 11251-11257.	2.8	7
26	Addition of sulfur radicals to fullerenes. International Journal of Quantum Chemistry, 2011, 111, 4266-4275.	2.0	6
27	On the applicability of cluster models to study the chemical reactivity of carbon nanotubes. Journal of Computational Chemistry, 2011, 32, 2397-2403.	3.3	6
28	Adsorption of organic molecules on graphene and fluorographene: An unresolved discrepancy between experiment and theory. International Journal of Quantum Chemistry, 2021, 121, e26605.	2.0	4
29	On the electronic properties of defective graphene buffer layer on 6Hâ€“SiC(0001). Computational Condensed Matter, 2021, 26, e00538.	2.1	1
30	Elucidating the electronic and magnetic properties of epitaxial graphene grown on SiC with a defective buffer layer. Journal of Materials Science, 2021, 56, 11386-11401.	3.7	1