Ricardo Paupitz

List of Publications by Citations

44 papers	670 citations	13 h-index	25 g-index
45 ext. papers	767 ext. citations	3.3 avg, IF	3.87 L-index

#	Paper	IF	Citations
44	Nonzero Gap Two-Dimensional Carbon Allotrope from Porous Graphene. *Journal of Physical Chemistry C*, **2012**, 116, 12810-12813	3.8	120
43	q-distributions in complex systems: a brief review. *Brazilian Journal of Physics*, **2009**, 39, 468-474	1.2	68
42	Graphene to fluorographene and fluorographane: a theoretical study. *Nanotechnology*, **2013**, 24, 035706	3.4	64
41	Inorganic Graphenylene: A Porous Two-Dimensional Material With Tunable Band Gap. *Journal of Physical Chemistry C*, **2014**, 118, 23670-23674	3.8	56
40	Mechanical properties and fracture dynamics of silicene membranes. *Physical Chemistry Chemical Physics*, **2014**, 16, 19417-23	3.6	49
39	Controlled route to the fabrication of carbon and boron nitride nanoscrolls: A molecular dynamics investigation. *Journal of Applied Physics*, **2013**, 113, 054306	2.5	37
38	On the unzipping of multiwalled carbon nanotubes. *Nanotechnology*, **2012**, 23, 465702	3.4	33
37	Fullerenes generated from porous structures. *Physical Chemistry Chemical Physics*, **2014**, 16, 25515-22	3.6	28
36	Graphene healing mechanisms: A theoretical investigation. *Carbon*, **2016**, 99, 302-309	10.4	25
35	Giant and Tunable Anisotropy of Nanoscale Friction in Graphene. *Scientific Reports*, **2016**, 6, 31569	4.9	22
34	Ordered phases of encapsulated diamondoids into carbon nanotubes. *Nanotechnology*, **2011**, 22, 315708	3.4	21
33	Burning Graphene Layer-by-Layer. *Scientific Reports*, **2015**, 5, 11546	4.9	20
32	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. *Carbon*, **2018**, 127, 312-319	10.4	15
31	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. *Scientific Reports*, **2015**, 5, 10408	4.9	13
30	Earthquake-like patterns of acoustic emission in crumpled plastic sheets. *Europhysics Letters*, **2010**, 92, 29001	1.6	12
29	Grüneisen parameter for gases and superfluid helium. *European Journal of Physics*, **2016**, 37, 055105	0.8	10
28	Bending of layer-by-layer films driven by an external magnetic field. *International Journal of Molecular Sciences*, **2013**, 14, 12953-69	6.3	8

27	Nanoporous carbon superstructures based on covalent bonding of porous fullerenes. *Carbon*, **2018**, 130, 424-432	10.4	7
26	Spreading patterns of the influenza A (H1N1) pandemic. *PLoS ONE*, **2011**, 6, e17823	3.7	7
25	One-dimensional silicon and germanium nanostructures with no carbon analogues. *Physical Chemistry Chemical Physics*, **2014**, 16, 24570-4	3.6	6
24	Comparative parametric method 6 (PM6) and Recife model 1 (RM1) study of trans-stilbene. *Molecular Simulation*, **2012**, 38, 1-7	2	6
23	Porous graphene and graphenylene nanotubes: Electronic structure and strain effects. *Computational Materials Science*, **2017**, 140, 344-355	3.2	5
22	Simplified particle swarm optimization algorithm. *Acta Scientiarum - Technology*, **2012**, 34,	0.5	5
21	Improving Graphene-metal Contacts: Thermal Induced Polishing. *MRS Advances*, **2018**, 3, 73-78	0.7	4
20	Dynamical aspects of the unzipping of multiwalled boron nitride nanotubes. *Physical Chemistry Chemical Physics*, **2013**, 15, 19147-50	3.6	4
19	Topologically closed macromolecules made of single walled carbon nanotubes-bsuperbfullerenes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4378-83	1.3	4
18	Graphenylene-based nanoribbons for novel molecular electronic devices. *Physical Chemistry Chemical Physics*, **2020**, 22, 28365-28375	3.6	4
17	Specific Heat Anomalies in Solids Described by a Multilevel Model. *Brazilian Journal of Physics*, **2016**, 46, 206-212	1.2	3
16	Theoretical conformational study of poly(trans-1, 2-di(2-thienyl) ethylene): Effects on the electronic structure and optical properties. *International Journal of Quantum Chemistry*, **2006**, 106, 2723-2730	2.1	2
15	An□lise te□ico-experimental da dispers□ de poluentes l□quidos em solos. *Engenharia Sanitaria E Ambiental*, **2007**, 12, 410-416	0.4	2
14	One- and two-dimensional structures based on gallium nitride. *Journal of Solid State Chemistry*, **2021**, 303, 122513	3.3	2
13	Ground state determination and band gaps of bilayers of graphenylenes and octafunctionalized-biphenylenes. *Computational Materials Science*, **2019**, 164, 31-38	3.2	1
12	N-Carbophenes: two-dimensional covalent organic frameworks derived from linear N-phenylenes. *Materials Research Express*, **2019**, 6, 115103	1.7	1
11	The Hydrogenation Dynamics of h-BN Sheets. *Materials Research Society Symposia Proceedings*, **2013**, 1549, 91-98		1
10	Mechanical Properties and Fracture Dynamics of Silicene Membranes. *Materials Research Society Symposia Proceedings*, **2013**, 1549, 99-107		1

9	A Nonzero Gap Two-dimensional Carbon Allotrope from Porous Graphene. *Materials Research Society Symposia Proceedings*, **2012**, 1407, 199		1
8	New 2D nanosheets based on the octa-graphene. *Journal of Solid State Chemistry*, **2020**, 290, 121534	3.3	1
7	Theoretical study of collision dynamics of fullerenes on graphenylene and porous graphene membranes. *Journal of Molecular Graphics and Modelling*, **2020**, 100, 107664	2.8	1
6	A promising nanoporous AlxGa(1-x)N nanosheet based on octagraphene. *Materials Letters*, **2021**, 284, 128916	3.3	1
5	Improving Graphene-metal Contacts: Thermal Induced Polishing □CORRIGENDUM. *MRS Advances*, **2018**, 3, 127-127	0.7	
4	Tribological Properties of Graphene and Boron-Nitride Layers: A Fully Atomistic Molecular Dynamics Study. *Materials Research Society Symposia Proceedings*, **2012**, 1407, 181		
3	On the Unzipping Mechanisms of Carbon Nanotubes: Insights from Reactive Molecular Dynamics Simulations. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 3-8		
2	On the Existence of Ordered Phases of Encapsulated Diamondoids into Carbon Nanotubes. *Materials Research Society Symposia Proceedings*, **2012**, 1407, 26		
1	Auxetic properties of a newly proposed □graphyne-like material. *Chemical Physics Letters*, **2021**, 139220	2.5	