

Ricardo Paupitz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Auxetic properties of a newly proposed Egraphyne-like material. <i>Chemical Physics Letters</i> , 2021 , 139220	2.5	
43	A promising nanoporous Al _x Ga _(1-x) N nanosheet based on octagraphene. <i>Materials Letters</i> , 2021 , 284, 128916	3.3	1
42	One- and two-dimensional structures based on gallium nitride. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122513	3.3	2
41	New 2D nanosheets based on the octa-graphene. <i>Journal of Solid State Chemistry</i> , 2020 , 290, 121534	3.3	1
40	Theoretical study of collision dynamics of fullerenes on graphenylene and porous graphene membranes. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107664	2.8	1
39	Graphenylene-based nanoribbons for novel molecular electronic devices. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28365-28375	3.6	4
38	Ground state determination and band gaps of bilayers of graphenylenes and octafunctionalized-biphenylenes. <i>Computational Materials Science</i> , 2019 , 164, 31-38	3.2	1
37	N-Carbophenes: two-dimensional covalent organic frameworks derived from linear N-phenylenes. <i>Materials Research Express</i> , 2019 , 6, 115103	1.7	1
36	Improving Graphene-metal Contacts: Thermal Induced Polishing. <i>MRS Advances</i> , 2018 , 3, 73-78	0.7	4
35	Nanoporous carbon superstructures based on covalent bonding of porous fullerenes. <i>Carbon</i> , 2018 , 130, 424-432	10.4	7
34	Improving Graphene-metal Contacts: Thermal Induced Polishing [CORRIGENDUM]. <i>MRS Advances</i> , 2018 , 3, 127-127	0.7	
33	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. <i>Carbon</i> , 2018 , 127, 312-319	10.4	15
32	Porous graphene and graphenylene nanotubes: Electronic structure and strain effects. <i>Computational Materials Science</i> , 2017 , 140, 344-355	3.2	5
31	Giant and Tunable Anisotropy of Nanoscale Friction in Graphene. <i>Scientific Reports</i> , 2016 , 6, 31569	4.9	22
30	Specific Heat Anomalies in Solids Described by a Multilevel Model. <i>Brazilian Journal of Physics</i> , 2016 , 46, 206-212	1.2	3
29	Graphene healing mechanisms: A theoretical investigation. <i>Carbon</i> , 2016 , 99, 302-309	10.4	25
28	Grüneisen parameter for gases and superfluid helium. <i>European Journal of Physics</i> , 2016 , 37, 055105	0.8	10

27	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. <i>Scientific Reports</i> , 2015 , 5, 10408	4.9	13
26	Burning Graphene Layer-by-Layer. <i>Scientific Reports</i> , 2015 , 5, 11546	4.9	20
25	Fullerenes generated from porous structures. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25515-22	3.6	28
24	Mechanical properties and fracture dynamics of silicene membranes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19417-23	3.6	49
23	Inorganic Graphenylene: A Porous Two-Dimensional Material With Tunable Band Gap. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23670-23674	3.8	56
22	One-dimensional silicon and germanium nanostructures with no carbon analogues. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24570-4	3.6	6
21	Dynamical aspects of the unzipping of multiwalled boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19147-50	3.6	4
20	Controlled route to the fabrication of carbon and boron nitride nanoscrolls: A molecular dynamics investigation. <i>Journal of Applied Physics</i> , 2013 , 113, 054306	2.5	37
19	Graphene to fluorographene and fluorographane: a theoretical study. <i>Nanotechnology</i> , 2013 , 24, 035706	3.4	64
18	The Hydrogenation Dynamics of h-BN Sheets. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1549, 91-98		1
17	Mechanical Properties and Fracture Dynamics of Silicene Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1549, 99-107		1
16	Bending of layer-by-layer films driven by an external magnetic field. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 12953-69	6.3	8
15	Nonzero Gap Two-Dimensional Carbon Allotrope from Porous Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12810-12813	3.8	120
14	On the unzipping of multiwalled carbon nanotubes. <i>Nanotechnology</i> , 2012 , 23, 465702	3.4	33
13	Comparative parametric method 6 (PM6) and Recife model 1 (RM1) study of trans-stilbene. <i>Molecular Simulation</i> , 2012 , 38, 1-7	2	6
12	Simplified particle swarm optimization algorithm. <i>Acta Scientiarum - Technology</i> , 2012 , 34,	0.5	5
11	Tribological Properties of Graphene and Boron-Nitride Layers: A Fully Atomistic Molecular Dynamics Study. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1407, 181		
10	A Nonzero Gap Two-dimensional Carbon Allotrope from Porous Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1407, 199		1

- 9 On the Unzipping Mechanisms of Carbon Nanotubes: Insights from Reactive Molecular Dynamics Simulations. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 3-8
- 8 On the Existence of Ordered Phases of Encapsulated Diamondoids into Carbon Nanotubes. *Materials Research Society Symposia Proceedings*, **2012**, 1407, 26
- 7 Ordered phases of encapsulated diamondoids into carbon nanotubes. *Nanotechnology*, **2011**, 22, 315708, 3.4 21
- 6 Spreading patterns of the influenza A (H1N1) pandemic. *PLoS ONE*, **2011**, 6, e17823 3.7 7
- 5 Earthquake-like patterns of acoustic emission in crumpled plastic sheets. *Europhysics Letters*, **2010**, 92, 29001 1.6 12
- 4 Topologically closed macromolecules made of single walled carbon nanotubes-superbfullerenes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4378-83 1.3 4
- 3 q-distributions in complex systems: a brief review. *Brazilian Journal of Physics*, **2009**, 39, 468-474 1.2 68
- 2 Análise teórico-experimental da dispersão de poluentes líquidos em solos. *Engenharia Sanitaria E Ambiental*, **2007**, 12, 410-416 0.4 2
- 1 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