Eduardo Costa GirÃ£o

List of Publications by Year
in descending order

49 papers	843 citations	567144 15 h-index	501076 28 g-index
50 all docs	50 docs citations	50 times ranked	1091 citing authors

#	Article	IF	Citations
1	Electronic properties of boron-rich graphene nanowiggles. Computational Materials Science, 2022, 201, 110907.	1.4	1
2	Structural and electronic properties of nonconventional Î± -graphyne nanocarbons. Physical Review Materials, 2022, 6, .	0.9	2
3	Electronic properties of carbon sheets and nanoribbons based on acepentalene-like building blocks. Computational Materials Science, 2022, 211, 111520.	1.4	0
4	Electronic and magnetic properties of tripentaphene nanoribbons. Physical Review Materials, 2022, 6, .	0.9	2
5	Phenyl- and naphthyl-type heteroatom substitution blocks in naphthylene-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e883" altimg="si39.svg"><mml:mi>Î³</mml:mi></mml:math>: A DFT study. Computational Materials Science, 2022, 213, 111578.	1.4	0
6	Computational study of elastic, structural stability and dynamics properties of penta-graphene membrane. Chemical Physics, 2021, 542, 111052.	0.9	16
7	Electronic properties of N-rich graphene nano-chevrons. Physical Chemistry Chemical Physics, 2021, 23, 13204-13215.	1.3	6
8	Electronic and Transport Properties of Graphene Nanoribbons Based on Super-Heptazethrene Molecular Blocks. Journal of Physical Chemistry C, 2021, 125, 11235-11248.	1.5	7
9	Mechanical properties of single-walled penta-graphene-based nanotubes: A DFT and Classical molecular dynamics study. Chemical Physics, 2021, 547, 111187.	0.9	6
10	Structural and electronic properties of double-walled Î±-graphyne nanotubes. Computational Materials Science, 2021, 200, 110768.	1.4	1
11	Electronic properties of 2D and 1D carbon allotropes based on a triphenylene structural unit. Physical Chemistry Chemical Physics, 2021, 23, 25114-25125.	1.3	7
12	Tripentaphenes: two-dimensional acepentalene-based nanocarbon allotropes. Physical Chemistry Chemical Physics, 2020, 22, 23195-23206.	1.3	10
13	Electronic and structural properties of tetragraphenes. Carbon, 2020, 167, 403-413.	5.4	11
14	Naphthylene- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> : 1D and 2D carbon allotropes based on the fusion of phenyl- and naphthyl-like groups. Physical Review Materials, 2020, 4, .	0.9	4
15	Elastic properties of graphyne-based nanotubes. Computational Materials Science, 2019, 170, 109153.	1.4	25
16	Naphthylenes: 1D and 2D carbon allotropes based on naphthyl units. Carbon, 2019, 153, 792-803.	5.4	23
17	Modeling the Kondo effect of a magnetic atom adsorbed on graphene. 2D Materials, 2019, 6, 035038.	2.0	3
18	Structural and electronic properties of nanotubes constructed from fragmented fullerenes. Carbon, 2019, 147, 616-627.	5.4	10

#	Article	IF	Citations
19	Electronic properties of tetragraphene nanoribbons. Physical Review Materials, 2019, 3, .	0.9	14
20	Mechanical Properties of Pentagraphene-based Nanotubes: A Molecular Dynamics Study. MRS Advances, 2018, 3, 97-102.	0.5	10
21	Mechanical Properties of Phagraphene Membranes: A Fully Atomistic Molecular Dynamics Investigation. MRS Advances, 2018, 3, 67-72.	0.5	6
22	High efficiency spin-valve and spin-filter in a doped rhombic graphene quantum dot device. Journal of Magnetism and Magnetic Materials, 2018, 451, 532-539.	1.0	8
23	Spin-Negative Differential Resistance in Zigzag Graphene Nanoribbons with Side-Attached Porphine Molecule. Journal of Physical Chemistry C, 2018, 122, 15911-15921.	1.5	14
24	Quantum Dots in Graphene Nanoribbons. Nano Letters, 2017, 17, 4277-4283.	4.5	99
25	Tuning the electronic and quantum transport properties of nitrogenated holey graphene nanoribbons. Journal of Materials Chemistry C, 2017, 5, 11856-11866.	2.7	13
26	One- and two-dimensional carbon nanostructures based on unfolded buckyballs: An <i>ab initio</i> investigation of their electronic properties. Physical Review B, 2017, 95, .	1.1	13
27	Electronic, transport, and magnetic properties of punctured carbon nanotubes. Physical Review B, 2016, 94, .	1.1	3
28	Improved All-Carbon Spintronic Device Design. Scientific Reports, 2015, 5, 7634.	1.6	52
29	Heterospin Junctions in Zigzag-Edged Graphene Nanoribbons. Applied Sciences (Switzerland), 2014, 4, 351-365.	1.3	1
30	Electronic transport in three-terminal triangular carbon nanopatches. Nanotechnology, 2014, 25, 045706.	1.3	3
31	Quantifying energetics of topological frustration in carbon nanostructures. Physical Review B, 2014, 89, .	1.1	9
32	Electronic properties of three-terminal graphitic nanowiggles. Physical Review B, 2014, 90, .	1.1	4
33	Electronic and magnetic structures of coronene-based graphitic nanoribbons. Physical Chemistry Chemical Physics, 2014, 16, 3603.	1.3	10
34	Emergent magnetism in irradiated graphene nanostructures. Carbon, 2014, 78, 196-203.	5.4	9
35	Quasiparticle band gaps of graphene nanowiggles and their magnetism on Au(111). Physical Review B, 2013, 88, .	1.1	15
36	Patchwork algorithm for the parallel computation of the Greenâ€™s function in open systems. Journal of Computational Electronics, 2013, 12, 123-133.	1.3	17

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37	Electronic and transport properties of graphene nanoribbon barbellâ€shaped heterojunctions. Physica Status Solidi (B): Basic Research, 2013, 250, 2417-2423.	0.7	3
38	Modeling and Simulation of Electron Transport at the Nanoscale: Illustrations in Low-Dimensional Carbon Nanostructures. Advances in Atom and Single Molecule Machines, 2013, , 123-133.	0.0	0
39	Enhanced thermoelectric figure of merit in assembled graphene nanoribbons. Physical Review B, 2012, 86, .	1.1	81
40	Electronic Transport Properties of Assembled Carbon Nanoribbons. ACS Nano, 2012, 6, 6483-6491.	7.3	29
41	Topographic and Spectroscopic Characterization of Electronic Edge States in CVD Grown Graphene Nanoribbons. Nano Letters, 2012, 12, 1928-1933.	4.5	104
42	Structural and electronic properties of graphitic nanowiggles. Physical Review B, 2012, 85, .	1.1	24
43	Electronic transport properties of carbon nanotoroids. Nanotechnology, 2011, 22, 075701.	1.3	6
44	Emergence of Atypical Properties in Assembled Graphene Nanoribbons. Physical Review Letters, 2011, 107, 135501.	2.9	69
45	Electronic transmission selectivity in multiterminal graphitic nanorings. Applied Physics Letters, 2011, 98, 112111.	1.5	5
46	Nicotine adsorption on single wall carbon nanotubes. Journal of Hazardous Materials, 2010, 184, 678-683.	6.5	19
47	Functionalization of single-wall carbon nanotubes through chloroform adsorption: theory and experiment. Physical Chemistry Chemical Physics, 2010, 12, 1518.	1.3	27
48	A single molecule rectifier with strong push-pull coupling. Journal of Chemical Physics, 2008, 129, 204701.	1.2	17
49	First principles study of 1,2-dichlorobenzene adsorption on metallic carbon nanotubes. International Journal of Quantum Chemistry, 2006, 106, 2558-2563.	1.0	23