Diego Rabelo da Costa

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.

43 papers	583 citations	13 h-index	23 g-index
47 ext. papers	885 ext. citations	3.5 avg, IF	3.96 L-index

#	Paper	IF	Citations
43	Tight-binding Model in First and Second Quantization for Band Structure Calculations. *Brazilian Journal of Physics*, **2022**, 52, 1	1.2	1
42	Three-boson stability for boosted interactions towards the zero-range limit. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2021**, 136773	4.2	0
41	Gap opening in graphene nanoribbons by application of simple shear strain and in-plane electric field. *Journal of Physics Condensed Matter*, **2021**, 33, 065503	1.8	1
40	Effect of zitterbewegung on the propagation of wave packets in ABC-stacked multilayer graphene: an analytical and computational approach. *Journal of Physics Condensed Matter*, **2021**, 33, 095503	1.8	2
39	Signatures of subband excitons in few-layer black phosphorus. *Physical Review B*, **2021**, 103,	3.3	1
38	Two-dimensional electron gas in a non-Euclidean space. *Physica E: Low-Dimensional Systems and Nanostructures*, **2021**, 129, 114639	3	1
37	Gate potential-controlled current switching in graphene Y-junctions. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	1
36	Zitterbewegung of Moir□Excitons in Twisted MoS_{2}/WSe_{2} Heterobilayers. *Physical Review Letters*, **2021**, 127, 106801	7.4	1
35	Band-gap formation and morphing in □3 superlattices. *Physical Review B*, **2021**, 104,	3.3	1
34	Dirac fermions in graphene using the position-dependent translation operator formalism. *Physical Review B*, **2020**, 102,	3.3	5
33	Current modulation in graphene p-n junctions with external fields. *Journal of Physics Condensed Matter*, **2020**, 32, 425501	1.8	2
32	Electronic properties of bilayer graphene catenoid bridge. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126458	2.3	7
31	Magnetic field induced vortices in graphene quantum dots. *Journal of Physics Condensed Matter*, **2020**, 32, 155501	1.8	3
30	Terahertz photo-generated current in a two-dimensional quantum dot system. *Journal of Applied Physics*, **2020**, 128, 185702	2.5	
29	Visualization and Manipulation of Bilayer Graphene Quantum Dots with Broken Rotational Symmetry and Nontrivial Topology. *Nano Letters*, **2020**, 20, 8682-8688	11.5	7
28	Electronic and transport properties of anisotropic semiconductor quantum wires. *Physical Review B*, **2020**, 102,	3.3	3
27	Bandgap engineering of two-dimensional semiconductor materials. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	152

26	Wave-packet dynamics in multilayer phosphorene. *Physical Review B*, **2019**, 99,	3.3	7
25	Electron collimation at van der Waals domain walls in bilayer graphene. *Physical Review B*, **2019**, 100,	3.3	7
24	Curvature effects on the electronic and transport properties of semiconductor films. *Physica E: Low-Dimensional Systems and Nanostructures*, **2018**, 99, 304-309	3	6
23	Stark shift of excitons and trions in two-dimensional materials. *Physical Review B*, **2018**, 98,	3.3	14
22	Channel surface plasmons in a continuous and flat graphene sheet. *Physical Review B*, **2018**, 97,	3.3	1
21	Structural analysis, molecular docking and molecular dynamics of an edematogenic lectin from Centrolobium microchaete seeds. *International Journal of Biological Macromolecules*, **2018**, 117, 124-133	7.9	10
20	Electronic properties of superlattices on quantum rings. *Journal of Physics Condensed Matter*, **2017**, 29, 165501	1.8	4
19	Valley filtering in graphene due to substrate-induced mass potential. *Journal of Physics Condensed Matter*, **2017**, 29, 215502	1.8	11
18	Multilayered black phosphorus: From a tight-binding to a continuum description. *Physical Review B*, **2017**, 96,	3.3	28
17	Magnetic properties of bilayer graphene quantum dots in the presence of uniaxial strain. *Physical Review B*, **2017**, 96,	3.3	8
16	Substrate effects on the exciton fine structure of black phosphorus quantum dots. *Physical Review B*, **2017**, 96,	3.3	9
15	Charging energy spectrum of black phosphorus quantum dots. *Journal Physics D: Applied Physics*, **2017**, 50, 305103	3	5
14	Unusual quantum confined Stark effect and Aharonov-Bohm oscillations in semiconductor quantum rings with anisotropic effective masses. *Physical Review B*, **2017**, 95,	3.3	23
13	All-strain based valley filter in graphene nanoribbons using snake states. *Physical Review B*, **2016**, 94,	3.3	23
12	Magnetic field dependence of energy levels in biased bilayer graphene quantum dots. *Physical Review B*, **2016**, 93,	3.3	17
11	Energy levels of hybrid monolayer-bilayer graphene quantum dots. *Physical Review B*, **2016**, 93,	3.3	20
10	Hexagonal-shaped monolayer-bilayer quantum disks in graphene: A tight-binding approach. *Physical Review B*, **2016**, 94,	3.3	6
9	Electronic confinement in graphene quantum rings due to substrate-induced mass radial kink. *Journal of Physics Condensed Matter*, **2016**, 28, 505501	1.8	4

8	Energy levels of ABC-stacked trilayer graphene quantum dots with infinite-mass boundary conditions. *Physical Review B*, **2016**, 94,	3.3	8
7	Boundary conditions for phosphorene nanoribbons in the continuum approach. *Physical Review B*, **2016**, 94,	3.3	16
6	Energy levels of bilayer graphene quantum dots. *Physical Review B*, **2015**, 92,	3.3	19
5	Energy shift and conduction-to-valence band transition mediated by a time-dependent potential barrier in graphene. *Physical Review B*, **2015**, 92,	3.3	7
4	Valley filtering using electrostatic potentials in bilayer graphene. *Physical Review B*, **2015**, 92,	3.3	38
3	Analytical study of the energy levels in bilayer graphene quantum dots. *Carbon*, **2014**, 78, 392-400	10.4	29
2	Geometry and edge effects on the energy levels of graphene quantum rings: A comparison between tight-binding and simplified Dirac models. *Physical Review B*, **2014**, 89,	3.3	49
1	Wave-packet scattering on graphene edges in the presence of a pseudomagnetic field. *Physical Review B*, **2012**, 86,	3.3	25