

# Diego Rabelo da Costa

## List of Publications by Citations

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43  
papers

583  
citations

13  
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23  
g-index

47  
ext. papers

885  
ext. citations

3.5  
avg, IF

3.96  
L-index

#	Paper	IF	Citations
43	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	152
42	Geometry and edge effects on the energy levels of graphene quantum rings: A comparison between tight-binding and simplified Dirac models. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	49
41	Valley filtering using electrostatic potentials in bilayer graphene. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	38
40	Analytical study of the energy levels in bilayer graphene quantum dots. <i>Carbon</i> , <b>2014</b> , 78, 392-400	10.4	29
39	Multilayered black phosphorus: From a tight-binding to a continuum description. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	28
38	Wave-packet scattering on graphene edges in the presence of a pseudomagnetic field. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	25
37	All-strain based valley filter in graphene nanoribbons using snake states. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	23
36	Unusual quantum confined Stark effect and Aharonov-Bohm oscillations in semiconductor quantum rings with anisotropic effective masses. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	23
35	Energy levels of hybrid monolayer-bilayer graphene quantum dots. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	20
34	Energy levels of bilayer graphene quantum dots. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	19
33	Magnetic field dependence of energy levels in biased bilayer graphene quantum dots. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	17
32	Boundary conditions for phosphorene nanoribbons in the continuum approach. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	16
31	Stark shift of excitons and trions in two-dimensional materials. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	14
30	Valley filtering in graphene due to substrate-induced mass potential. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 215502	1.8	11
29	Structural analysis, molecular docking and molecular dynamics of an edematogenic lectin from <i>Centrolobium microchaete</i> seeds. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 124-133 <sup>7.9</sup>		10
28	Substrate effects on the exciton fine structure of black phosphorus quantum dots. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	9
27	Energy levels of ABC-stacked trilayer graphene quantum dots with infinite-mass boundary conditions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8

26	Magnetic properties of bilayer graphene quantum dots in the presence of uniaxial strain. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	8
25	Wave-packet dynamics in multilayer phosphorene. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	7
24	Electronic properties of bilayer graphene catenoid bridge. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126458	2.3	7
23	Electron collimation at van der Waals domain walls in bilayer graphene. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	7
22	Energy shift and conduction-to-valence band transition mediated by a time-dependent potential barrier in graphene. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	7
21	Visualization and Manipulation of Bilayer Graphene Quantum Dots with Broken Rotational Symmetry and Nontrivial Topology. <i>Nano Letters</i> , <b>2020</b> , 20, 8682-8688	11.5	7
20	Curvature effects on the electronic and transport properties of semiconductor films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 99, 304-309	3	6
19	Hexagonal-shaped monolayer-bilayer quantum disks in graphene: A tight-binding approach. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
18	Dirac fermions in graphene using the position-dependent translation operator formalism. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
17	Charging energy spectrum of black phosphorus quantum dots. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 305103	3	5
16	Electronic properties of superlattices on quantum rings. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 165501	1.8	4
15	Electronic confinement in graphene quantum rings due to substrate-induced mass radial kink. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 505501	1.8	4
14	Magnetic field induced vortices in graphene quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 155501	1.8	3
13	Electronic and transport properties of anisotropic semiconductor quantum wires. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
12	Current modulation in graphene p-n junctions with external fields. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 425501	1.8	2
11	Effect of zitterbewegung on the propagation of wave packets in ABC-stacked multilayer graphene: an analytical and computational approach. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 095503	1.8	2
10	Tight-binding Model in First and Second Quantization for Band Structure Calculations. <i>Brazilian Journal of Physics</i> , <b>2022</b> , 52, 1	1.2	1
9	Gap opening in graphene nanoribbons by application of simple shear strain and in-plane electric field. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 065503	1.8	1

8	Signatures of subband excitons in few-layer black phosphorus. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
7	Two-dimensional electron gas in a non-Euclidean space. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 129, 114639	3	1
6	Gate potential-controlled current switching in graphene Y-junctions. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	1
5	Channel surface plasmons in a continuous and flat graphene sheet. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	1
4	Zitterbewegung of Moiré excitons in Twisted MoS <sub>2</sub> /WSe <sub>2</sub> Heterobilayers. <i>Physical Review Letters</i> , <b>2021</b> , 127, 106801	7.4	1
3	Band-gap formation and morphing in $\Gamma_3$ superlattices. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
2	Three-boson stability for boosted interactions towards the zero-range limit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 136773	4.2	0
1	Terahertz photo-generated current in a two-dimensional quantum dot system. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 185702	2.5	