

Marcos Guimaraes

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,983
citations

331670

21
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

4365
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of spin-orbit torques through crystal symmetry in WTe ₂ /ferromagnet bilayers. Nature Physics, 2017, 13, 300-305.	16.7	489
2	Fast pick up technique for high quality heterostructures of bilayer graphene and hexagonal boron nitride. Applied Physics Letters, 2014, 105, .	3.3	280
3	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	4.4	243
4	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. ACS Nano, 2016, 10, 6392-6399.	14.6	202
5	Long-distance spin transport in high-mobility graphene on hexagonal boron nitride. Physical Review B, 2012, 86, .	3.2	189
6	Controlling Spin Relaxation in Hexagonal BN-Encapsulated Graphene with a Transverse Electric Field. Physical Review Letters, 2014, 113, 086602.	7.8	182
7	Group-theory analysis of electrons and phonons in N -layer graphene systems. Physical Review B, 2009, 79, .	3.2	154
8	Spin Transport in High-Quality Suspended Graphene Devices. Nano Letters, 2012, 12, 3512-3517.	9.1	145
9	Quantized conductance of a suspended graphene nanoconstriction. Nature Physics, 2011, 7, 697-700.	16.7	143
10	Room-Temperature Compression-Induced Diamondization of Few-Layer Graphene. Advanced Materials, 2011, 23, 3014-3017.	21.0	124
11	Thickness dependence of spin-orbit torques generated by WTe_2 . Physical Review B, 2017, 96, .	3.2	104
12	Spin-Orbit Torques in NbSe ₂ /Permalloy Bilayers. Nano Letters, 2018, 18, 1311-1316.	9.1	89
13	Contact-induced spin relaxation in Hanle spin precession measurements. Physical Review B, 2012, 86, .	3.2	82
14	Transfer of large-scale two-dimensional semiconductors: challenges and developments. 2D Materials, 2021, 8, 032001.	4.4	81
15	$24\pi^{\frac{1}{4}}$ spin relaxation length in boron nitride encapsulated bilayer graphene. Physical Review B, 2015, 92, .	3.2	80
16	Comparison between charge and spin transport in few-layer graphene. Physical Review B, 2011, 83, .	3.2	76
17	Chiral Spin Spirals at the Surface of the van der Waals Ferromagnet Fe ₃ GeTe ₂ . Nano Letters, 2020, 20, 8563-8568.	9.1	35
18	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. ACS Nano, 2019, 13, 2599-2605.	14.6	32

#	ARTICLE	IF	CITATIONS
19	Unconventional spin Hall effects in nonmagnetic solids. <i>Physical Review Materials</i> , 2022, 6, .	2.4	28
20	Spin caloritronics in a CrBr_3 magnetic van der Waals heterostructure. <i>Physical Review B</i> , 2020, 101, .		
21	Quantum Hall transport as a probe of capacitance profile at graphene edges. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	21
22	Spin-Orbit Torques in Transition Metal Dichalcogenide/Ferromagnet Heterostructures. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	21
23	ZnO UV photodetector with controllable quality factor and photosensitivity. <i>AIP Advances</i> , 2013, 3, .	1.3	19
24	MoS ₂ pixel arrays for real-time photoluminescence imaging of redox molecules. <i>Science Advances</i> , 2019, 5, eaat9476.	10.3	19
25	Spin transport in graphene nanostructures. <i>Physical Review B</i> , 2014, 90, .	3.2	17
26	Spin Accumulation and Dynamics in Inversion-Symmetric van der Waals Crystals. <i>Physical Review Letters</i> , 2018, 120, 266801.	7.8	14
27	From quantum confinement to quantum Hall effect in graphene nanostructures. <i>Physical Review B</i> , 2012, 85, .	3.2	11
28	Large interfacial spin-orbit torques in layered antiferromagnetic insulator NiP_3 /ferromagnet bilayers. <i>Physical Review Materials</i> , 2020, 4, .	2.4	11
29	Correlated Exciton Fluctuations in a Two-Dimensional Semiconductor on a Metal. <i>Nano Letters</i> , 2020, 20, 4829-4836.	9.1	10
30	Symmetry and control of spin-scattering processes in two-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2021, 103, .	3.2	10
31	Photoluminescence and charge transfer in the prototypical 2D/3D semiconductor heterostructure MoS ₂ /GaAs. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
32	The role of device asymmetries and Schottky barriers on the helicity-dependent photoresponse of 2D phototransistors. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	8
33	Spin-Dependent Quantum Interference in Nonlocal Graphene Spin Valves. <i>Nano Letters</i> , 2014, 14, 2952-2956.	9.1	7
34	Spin relaxation 1/f noise in graphene. <i>Physical Review B</i> , 2017, 95, .	3.2	6
35	Interfacial spin-orbit torques and magnetic anisotropy in WSe ₂ /permalloy bilayers. <i>JPhys Materials</i> , 2021, 4, 04LT01.	4.2	5
36	Layer effects on the magnetic textures in magnets with local inversion asymmetry. <i>Physical Review B</i> , 2020, 102, .	3.2	4

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37	Enhancing magneto-optic effects in two-dimensional magnets by thin-film interference. AIP Advances, 2021, 11, .	1.3	3
38	Nonlinear Analog Spintronics with van der Waals Heterostructures. Physical Review Applied, 2020, 14, .	3.8	2
39	Disorder is not always bad for charge-to-spin conversion in WTe ₂ . Matter, 2021, 4, 1440-1441.	10.0	1
40	Switching magnetization with a Weyl semimetal. Nature Nanotechnology, 2019, 14, 923-924.	31.5	0