

Marcos Guimaraes

List of Publications by Citations

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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.

36
papers

2,157
citations

18
h-index

40
g-index

40
ext. papers

2,569
ext. citations

7.6
avg, IF

4.99
L-index

#	Paper	IF	Citations
36	Control of spin-orbit torques through crystal symmetry in WTe ₂ /ferromagnet bilayers. <i>Nature Physics</i> , 2017 , 13, 300-305	16.2	293
35	Fast pick up technique for high quality heterostructures of bilayer graphene and hexagonal boron nitride. <i>Applied Physics Letters</i> , 2014 , 105, 013101	3.4	208
34	Graphene spintronics: the European Flagship perspective. <i>2D Materials</i> , 2015 , 2, 030202	5.9	198
33	Long-distance spin transport in high-mobility graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2012 , 86,	3.3	164
32	Controlling spin relaxation in hexagonal BN-encapsulated graphene with a transverse electric field. <i>Physical Review Letters</i> , 2014 , 113, 086602	7.4	155
31	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. <i>ACS Nano</i> , 2016 , 10, 6392-9	16.7	144
30	Group-theory analysis of electrons and phonons in N-layer graphene systems. <i>Physical Review B</i> , 2009 , 79,	3.3	130
29	Quantized conductance of a suspended graphene nanoconstriction. <i>Nature Physics</i> , 2011 , 7, 697-700	16.2	128
28	Spin transport in high-quality suspended graphene devices. <i>Nano Letters</i> , 2012 , 12, 3512-7	11.5	124
27	Room-temperature compression-induced diamondization of few-layer graphene. <i>Advanced Materials</i> , 2011 , 23, 3014-7	24	89
26	Contact-induced spin relaxation in Hanle spin precession measurements. <i>Physical Review B</i> , 2012 , 86,	3.3	77
25	Comparison between charge and spin transport in few-layer graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	68
24	24h spin relaxation length in boron nitride encapsulated bilayer graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	66
23	Thickness dependence of spin-orbit torques generated by WTe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	64
22	Spin-Orbit Torques in NbSe/Permalloy Bilayers. <i>Nano Letters</i> , 2018 , 18, 1311-1316	11.5	61
21	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. <i>ACS Nano</i> , 2019 , 13, 2599-2605	16.7	24
20	Transfer of large-scale two-dimensional semiconductors: challenges and developments. <i>2D Materials</i> , 2021 , 8, 032001	5.9	20

19	ZnO UV photodetector with controllable quality factor and photosensitivity. <i>AIP Advances</i> , 2013 , 3, 022104	10.4	18
18	Quantum Hall transport as a probe of capacitance profile at graphene edges. <i>Applied Physics Letters</i> , 2013 , 102, 013106	3.4	17
17	Chiral Spin Spirals at the Surface of the van der Waals Ferromagnet FeGeTe. <i>Nano Letters</i> , 2020 , 20, 8563-8568	11.5	15
16	Spin caloritronics in a CrBr ₃ -based magnetic van der Waals heterostructure. <i>Physical Review B</i> , 2020 , 101,	3.3	14
15	Spin transport in graphene nanostructures. <i>Physical Review B</i> , 2014 , 90,	3.3	14
14	MoS pixel arrays for real-time photoluminescence imaging of redox molecules. <i>Science Advances</i> , 2019 , 5, eaat9476	14.3	13
13	From quantum confinement to quantum Hall effect in graphene nanostructures. <i>Physical Review B</i> , 2012 , 85,	3.3	9
12	Spin-Orbit Torques in Transition Metal Dichalcogenide/Ferromagnet Heterostructures. <i>Frontiers in Materials</i> , 2020 , 7,	4	8
11	Spin-dependent quantum interference in nonlocal graphene spin valves. <i>Nano Letters</i> , 2014 , 14, 2952-6	11.5	7
10	Spin Accumulation and Dynamics in Inversion-Symmetric van der Waals Crystals. <i>Physical Review Letters</i> , 2018 , 120, 266801	7.4	7
9	Spin relaxation 1/f noise in graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	5
8	Correlated Exciton Fluctuations in a Two-Dimensional Semiconductor on a Metal. <i>Nano Letters</i> , 2020 , 20, 4829-4836	11.5	5
7	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,	8.8	3
6	Large interfacial spin-orbit torques in layered antiferromagnetic insulator NiPS ₃ /ferromagnet bilayers. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
5	Layer effects on the magnetic textures in magnets with local inversion asymmetry. <i>Physical Review B</i> , 2020 , 102,	3.3	1
4	Enhancing magneto-optic effects in two-dimensional magnets by thin-film interference. <i>AIP Advances</i> , 2021 , 11, 035132	1.5	1
3	Interfacial spin-orbit torques and magnetic anisotropy in WSe ₂ /permalloy bilayers. <i>JPhys Materials</i> , 2021 , 4, 04LT01	4.2	0
2	Switching magnetization with a Weyl semimetal. <i>Nature Nanotechnology</i> , 2019 , 14, 923-924	28.7	

1 Disorder is not always bad for charge-to-spin conversion in WTe₂. *Matter*, **2021**, 4, 1440-1441

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