Marcos Guimaraes

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.

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	Enhancing magneto-optic effects in two-dimensional magnets by thin-film interference. *AIP Advances*, **2021**, 11, 035132	1.5	1
35	Disorder is not always bad for charge-to-spin conversion in WTe2. *Matter*, **2021**, 4, 1440-1441	12.7	
34	Transfer of large-scale two-dimensional semiconductors: challenges and developments. *2D Materials*, **2021**, 8, 032001	5.9	20
33	The role of device asymmetries and Schottky barriers on the helicity-dependent photoresponse of 2D phototransistors. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	3
32	Interfacial spin-orbit torques and magnetic anisotropy in WSe2/permalloy bilayers. *JPhys Materials*, **2021**, 4, 04LT01	4.2	0
31	Layer effects on the magnetic textures in magnets with local inversion asymmetry. *Physical Review B*, **2020**, 102,	3.3	1
30	Spin caloritronics in a CrBr3-based magnetic van der Waals heterostructure. *Physical Review B*, **2020** , 101,	3.3	14
29	Correlated Exciton Fluctuations in a Two-Dimensional Semiconductor on a Metal. *Nano Letters*, **2020**, 20, 4829-4836	11.5	5
28	Large interfacial spin-orbit torques in layered antiferromagnetic insulator NiPS3/ferromagnet bilayers. *Physical Review Materials*, **2020**, 4,	3.2	2
27	Spin-Orbit Torques in Transition Metal Dichalcogenide/Ferromagnet Heterostructures. *Frontiers in Materials*, **2020**, 7,	4	8
26	Chiral Spin Spirals at the Surface of the van der Waals Ferromagnet FeGeTe. *Nano Letters*, **2020**, 20, 8563-8568	11.5	15
25	Switching magnetization with a Weyl semimetal. *Nature Nanotechnology*, **2019**, 14, 923-924	28.7	
24	MoS pixel arrays for real-time photoluminescence imaging of redox molecules. *Science Advances*, **2019**, 5, eaat9476	14.3	13
23	Current-Induced Torques with Dresselhaus Symmetry Due to Resistance Anisotropy in 2D Materials. *ACS Nano*, **2019**, 13, 2599-2605	16.7	24
22	Spin-Orbit Torques in NbSe/Permalloy Bilayers. *Nano Letters*, **2018**, 18, 1311-1316	11.5	61
21	Spin Accumulation and Dynamics in Inversion-Symmetric van der Waals Crystals. *Physical Review Letters*, **2018**, 120, 266801	7.4	7
20	Spin relaxation 1/f noise in graphene. *Physical Review B*, **2017**, 95,	3.3	5

19	Thickness dependence of spin-orbit torques generated by WTe2. *Physical Review B*, **2017**, 96,	3.3	64
18	Control of spin–orbit torques through crystal symmetry in WTe2/ferromagnet bilayers. *Nature Physics*, **2017**, 13, 300-305	16.2	293
17	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. *ACS Nano*, **2016**, 10, 6392-9	16.7	144
16	Graphene spintronics: the European Flagship perspective. *2D Materials*, **2015**, 2, 030202	5.9	198
15	24μm spin relaxation length in boron nitride encapsulated bilayer graphene. *Physical Review B*, **2015**, 92,	3.3	66
14	Spin-dependent quantum interference in nonlocal graphene spin valves. *Nano Letters*, **2014**, 14, 2952-6	11.5	7
13	Controlling spin relaxation in hexagonal BN-encapsulated graphene with a transverse electric field. *Physical Review Letters*, **2014**, 113, 086602	7.4	155
12	Fast pick up technique for high quality heterostructures of bilayer graphene and hexagonal boron nitride. *Applied Physics Letters*, **2014**, 105, 013101	3.4	208
11	Spin transport in graphene nanostructures. *Physical Review B*, **2014**, 90,	3.3	14
10	ZnO UV photodetector with controllable quality factor and photosensitivity. *AIP Advances*, **2013**, 3, 022104	1.4	18
9	Quantum Hall transport as a probe of capacitance profile at graphene edges. *Applied Physics Letters* , **2013**, 102, 013106	3.4	17
8	From quantum confinement to quantum Hall effect in graphene nanostructures. *Physical Review B*, **2012**, 85,	3.3	9
7	Contact-induced spin relaxation in Hanle spin precession measurements. *Physical Review B*, **2012**, 86,	3.3	77
6	Long-distance spin transport in high-mobility graphene on hexagonal boron nitride. *Physical Review B*, **2012**, 86,	3.3	164
5	Spin transport in high-quality suspended graphene devices. *Nano Letters*, **2012**, 12, 3512-7	11.5	124
4	Comparison between charge and spin transport in few-layer graphene. *Physical Review B*, **2011**, 83,	3.3	68
3	Quantized conductance of a suspended graphene nanoconstriction. *Nature Physics*, **2011**, 7, 697-700	16.2	128
2	Room-temperature compression-induced diamondization of few-layer graphene. *Advanced Materials*, **2011**, 23, 3014-7	24	89

1	Group-theory analysis of electrons and phonons in N-layer graphene systems. *Physical Review B*, **2009**, 79,	3.3	130