

Ivan J Vera-Marun

List of Publications by Citations

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44
papers

1,797
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42
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45
ext. papers

2,154
ext. citations

8.6
avg, IF

4.95
L-index

#	Paper	IF	Citations
44	Air-stable transport in graphene-contacted, fully encapsulated ultrathin black phosphorus-based field-effect transistors. <i>ACS Nano</i> , 2015 , 9, 4138-45	16.7	393
43	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr ₃ . <i>Nature Electronics</i> , 2018 , 1, 344-349	28.4	167
42	Quantized conductance of a suspended graphene nanoconstriction. <i>Nature Physics</i> , 2011 , 7, 697-700	16.2	128
41	Spin transport in high-quality suspended graphene devices. <i>Nano Letters</i> , 2012 , 12, 3512-7	11.5	124
40	Colloquium: Spintronics in graphene and other two-dimensional materials. <i>Reviews of Modern Physics</i> , 2020 , 92,	40.5	108
39	Large yield production of high mobility freely suspended graphene electronic devices on a polydimethylglutarimide based organic polymer. <i>Journal of Applied Physics</i> , 2011 , 109, 093702	2.5	80
38	Contact-induced spin relaxation in Hanle spin precession measurements. <i>Physical Review B</i> , 2012 , 86,	3.3	77
37	Two-dimensional van der Waals spinterfaces and magnetic-interfaces. <i>Applied Physics Reviews</i> , 2020 , 7, 011303	17.3	60
36	Edge currents shunt the insulating bulk in gapped graphene. <i>Nature Communications</i> , 2017 , 8, 14552	17.4	55
35	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. <i>2D Materials</i> , 2017 , 4, 031004	5.9	52
34	Enhancement of spin relaxation time in hydrogenated graphene spin-valve devices. <i>Physical Review B</i> , 2013 , 87,	3.3	52
33	Surface sensitivity of the spin Seebeck effect. <i>Journal of Applied Physics</i> , 2014 , 116, 153705	2.5	47
32	Spin injection and detection via the anomalous spin Hall effect of a ferromagnetic metal. <i>Physical Review B</i> , 2017 , 96,	3.3	44
31	Nonlinear detection of spin currents in graphene with non-magnetic electrodes. <i>Nature Physics</i> , 2012 , 8, 313-316	16.2	41
30	Relating hysteresis and electrochemistry in graphene field effect transistors. <i>Journal of Applied Physics</i> , 2011 , 110, 113708	2.5	32
29	Direct electronic measurement of Peltier cooling and heating in graphene. <i>Nature Communications</i> , 2016 , 7, 11525	17.4	30
28	Electronic spin transport in dual-gated bilayer graphene. <i>NPG Asia Materials</i> , 2016 , 8, e274-e274	10.3	28

27	Efficient Injection and Detection of Out-of-Plane Spins via the Anomalous Spin Hall Effect in Permalloy Nanowires. <i>Nano Letters</i> , 2018 , 18, 5633-5639	11.5	27
26	Field-induced quantum Hall ferromagnetism in suspended bilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	24
25	Nonlinear interaction of spin and charge currents in graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	22
24	Tunneling magnetoresistance with positive and negative sign in La _{0.67} Sr _{0.33} MnO ₃ /BrTiO ₃ /Co junctions. <i>Physical Review B</i> , 2007 , 76,	3.3	22
23	Anisotropic Hanle line shape via magnetothermoelectric phenomena. <i>Physical Review B</i> , 2016 , 94,	3.3	18
22	Absence of hyperfine effects in ¹³ C-graphene spin-valve devices. <i>Physical Review B</i> , 2014 , 89,	3.3	18
21	Zero-field Optic Mode Beyond 20 GHz in a Synthetic Antiferromagnet. <i>Physical Review Applied</i> , 2020 , 13,	4.3	17
20	Spin heat accumulation induced by tunneling from a ferromagnet. <i>Physical Review Letters</i> , 2014 , 112, 056602	7.4	17
19	Quantum Hall transport as a probe of capacitance profile at graphene edges. <i>Applied Physics Letters</i> , 2013 , 102, 013106	3.4	17
18	Spin transport in graphene nanostructures. <i>Physical Review B</i> , 2014 , 90,	3.3	14
17	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. <i>Nano Letters</i> , 2018 , 18, 6954-6960	11.5	11
16	Transition between one-dimensional and zero-dimensional spin transport studied by Hanle precession. <i>Physical Review B</i> , 2014 , 89,	3.3	10
15	Modulation of magnon spin transport in a magnetic gate transistor. <i>Physical Review B</i> , 2020 , 101,	3.3	8
14	Quantum Rescaling, Domain Metastability, and Hybrid Domain-Walls in 2D CrI Magnets. <i>Advanced Materials</i> , 2021 , 33, e2004138	24	8
13	Temperature dependence of the effective spin-mixing conductance probed with lateral non-local spin valves. <i>Applied Physics Letters</i> , 2019 , 114, 072405	3.4	7
12	Spin-dependent quantum interference in nonlocal graphene spin valves. <i>Nano Letters</i> , 2014 , 14, 2952-6	11.5	7
11	Spin relaxation in graphene with self-assembled cobalt porphyrin molecules. <i>Physical Review B</i> , 2015 , 92,	3.3	6
10	Spin relaxation 1/f noise in graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	5

9	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. <i>Nano Letters</i> , 2019 , 19, 6839-6844	11.5	4
8	Magnetic Tunnel Junctions With Co/TiO_2 Magnetic Semiconductor Electrodes. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1683-1686	2	4
7	Tunneling spectroscopy as a probe of fractionalization in two-dimensional magnetic heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	4
6	Multiterminal semiconductor/ferromagnet probes for spin-filter scanning tunneling microscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 07D520	2.5	3
5	Tunable Spin Injection in High-Quality Graphene with One-Dimensional Contacts.. <i>Nano Letters</i> , 2022 ,	11.5	2
4	Enhanced Spin Injection in Molecularly Functionalized Graphene via Ultrathin Oxide Barriers. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
3	Probing current-induced magnetic fields in Au YIG heterostructures with low-energy muon spin spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 062409	3.4	1
2	Two-channel model for spin-relaxation noise. <i>Physical Review B</i> , 2017 , 96,	3.3	1
1	Nanomagnets: Quantum Rescaling, Domain Metastability, and Hybrid Domain-Walls in 2D CrI ₃ Magnets (Adv. Mater. 5/2021). <i>Advanced Materials</i> , 2021 , 33, 2170036	24	