

Ivan J Vera-Marun

List of Publications by Year in descending order

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45
papers

2,424
citations

257357

24
h-index

243529

44
g-index

45
all docs

45
docs citations

45
times ranked

4211
citing authors

#	ARTICLE	IF	CITATIONS
1	Air-Stable Transport in Graphene-Contacted, Fully Encapsulated Ultrathin Black Phosphorus-Based Field-Effect Transistors. ACS Nano, 2015, 9, 4138-4145.	7.3	455
2	Colloquium : Spintronics in graphene and other two-dimensional materials. Reviews of Modern Physics, 2020, 92, .	16.4	265
3	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr ₃ . Nature Electronics, 2018, 1, 344-349.	13.1	239
4	Spin Transport in High-Quality Suspended Graphene Devices. Nano Letters, 2012, 12, 3512-3517.	4.5	145
5	Quantized conductance of a suspended graphene nanoconstriction. Nature Physics, 2011, 7, 697-700.	6.5	143
6	Two-dimensional van der Waals spinterfaces and magnetic-interfaces. Applied Physics Reviews, 2020, 7, .	5.5	100
7	Large yield production of high mobility freely suspended graphene electronic devices on a polydimethylglutarimide based organic polymer. Journal of Applied Physics, 2011, 109, .	1.1	88
8	Contact-induced spin relaxation in Hanle spin precession measurements. Physical Review B, 2012, 86, .	1.1	82
9	Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.	5.8	77
10	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. 2D Materials, 2017, 4, 031004.	2.0	73
11	Spin injection and detection via the anomalous spin Hall effect of a ferromagnetic metal. Physical Review B, 2017, 96, .	1.1	66
12	Enhancement of spin relaxation time in hydrogenated graphene spin-valve devices. Physical Review B, 2013, 87, .	1.1	58
13	Surface sensitivity of the spin Seebeck effect. Journal of Applied Physics, 2014, 116, .	1.1	56
14	Nonlinear detection of spin currents in graphene with non-magnetic electrodes. Nature Physics, 2012, 8, 313-316.	6.5	46
15	Relating hysteresis and electrochemistry in graphene field effect transistors. Journal of Applied Physics, 2011, 110, .	1.1	43
16	Direct electronic measurement of Peltier cooling and heating in graphene. Nature Communications, 2016, 7, 11525.	5.8	39
17	Electronic spin transport in dual-gated bilayer graphene. NPG Asia Materials, 2016, 8, e274-e274.	3.8	39
18	Zero-field Optic Mode Beyond 20ÂGHz in a Synthetic Antiferromagnet. Physical Review Applied, 2020, 13, .	1.5	36

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19	Efficient Injection and Detection of Out-of-Plane Spins via the Anomalous Spin Hall Effect in Permalloy Nanowires. Nano Letters, 2018, 18, 5633-5639.	4.5	34
20	Quantum Rescaling, Domain Metastability, and Hybrid Domain Walls in 2D CrI ₃ Magnets. Advanced Materials, 2021, 33, e2004138.	11.1	34
21	Tunneling magnetoresistance with positive and negative sign in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Physical Review B, 2007, 76, .	1.1	27
22	Field-induced quantum Hall ferromagnetism in suspended bilayer graphene. Physical Review B, 2012, 85, .	1.1	26
23	Nonlinear interaction of spin and charge currents in graphene. Physical Review B, 2011, 84, .	1.1	25
24	Anisotropic Hanle line shape via magnetothermoelectric phenomena. Physical Review B, 2016, 94, .	1.1	24
25	Absence of hyperfine effects in ^{13}C -graphene spin-valve devices. Physical Review B, 2014, 89, .	1.1	23
26	Quantum Hall transport as a probe of capacitance profile at graphene edges. Applied Physics Letters, 2013, 102, .	1.5	21
27	Spin Heat Accumulation Induced by Tunneling from a Ferromagnet. Physical Review Letters, 2014, 112, 056602.	2.9	19
28	Modulation of magnon spin transport in a magnetic gate transistor. Physical Review B, 2020, 101, .	1.1	18
29	Spin transport in graphene nanostructures. Physical Review B, 2014, 90, .	1.1	17
30	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. Nano Letters, 2018, 18, 6954-6960.	4.5	15
31	Tunneling spectroscopy as a probe of fractionalization in two-dimensional magnetic heterostructures. Physical Review B, 2020, 102, .	1.1	15
32	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. Nano Letters, 2019, 19, 6839-6844.	4.5	11
33	Transition between one-dimensional and zero-dimensional spin transport studied by Hanle precession. Physical Review B, 2014, 89, .	1.1	10
34	Temperature dependence of the effective spin-mixing conductance probed with lateral non-local spin valves. Applied Physics Letters, 2019, 114, .	1.5	10
35	Spin-Dependent Quantum Interference in Nonlocal Graphene Spin Valves. Nano Letters, 2014, 14, 2952-2956.	4.5	7
36	Spin relaxation in graphene with self-assembled cobalt porphyrin molecules. Physical Review B, 2015, 92, .	1.1	7

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37	Tunable Spin Injection in High-Quality Graphene with One-Dimensional Contacts. Nano Letters, 2022, 22, 935-941.	4.5	7
38	Magnetic Tunnel Junctions With Co:TiO_2 Magnetic Semiconductor Electrodes. IEEE Transactions on Magnetism, 2010, 46, 1683-1686.	1.2	6
39	Spin relaxation $1/f$ noise in graphene. Physical Review B, 2017, 95, .	1.1	6
40	Magnetization dynamics in synthetic ferromagnetic thin films. Physical Review B, 2021, 104, .	1.1	4
41	Multiterminal semiconductor/ferromagnet probes for spin-filter scanning tunneling microscopy. Journal of Applied Physics, 2009, 105, 07D520.	1.1	3
42	Two-channel model for spin-relaxation noise. Physical Review B, 2017, 96, .	1.1	2
43	Enhanced Spin Injection in Molecularly Functionalized Graphene via Ultrathin Oxide Barriers. Physical Review Applied, 2021, 15, .	1.5	2
44	Probing current-induced magnetic fields in Au YIG heterostructures with low-energy muon spin spectroscopy. Applied Physics Letters, 2017, 110, 062409.	1.5	1
45	Nanomagnets: Quantum Rescaling, Domain Metastability, and Hybrid Domain Walls in 2D CrI_3 Magnets (Adv. Mater. 5/2021). Advanced Materials, 2021, 33, 2170036.	11.1	0