

Jose H Garcia

List of Publications by Year in descending order

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29
papers

1,338
citations

516710

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32
docs citations

32
times ranked

1268
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Spin Hall Effect in Graphene/MoS ₂ van der Waals Heterostructures. Nano Letters, 2019, 19, 1074-1082.	9.1	186
2	Giant Spin Lifetime Anisotropy in Graphene Induced by Proximity Effects. Physical Review Letters, 2017, 119, 206601.	7.8	161
3	Spin transport in graphene/transition metal dichalcogenide heterostructures. Chemical Society Reviews, 2018, 47, 3359-3379.	38.1	150
4	Tunable room-temperature spin galvanic and spin Hall effects in van der Waals heterostructures. Nature Materials, 2020, 19, 170-175.	27.5	127
5	Large spin relaxation anisotropy and valley-Zeeman spin-orbit coupling in $\frac{WSe_2}{\text{graphene}}$ heterostructures. Physical Review B, 2018, 97, .	3.2	118
6	Spin Hall Effect and Weak Antilocalization in Graphene/Transition Metal Dichalcogenide Heterostructures. Nano Letters, 2017, 17, 5078-5083.	9.1	91
7	Real-Space Calculation of the Conductivity Tensor for Disordered Topological Matter. Physical Review Letters, 2015, 114, 116602.	7.8	78
8	Magnetism, symmetry and spin transport in van der Waals layered systems. Nature Reviews Physics, 2022, 4, 150-166.	26.6	72
9	Linear scaling quantum transport methodologies. Physics Reports, 2021, 903, 1-69.	25.6	46
10	Canted Persistent Spin Texture and Quantum Spin Hall Effect in $\frac{WTe_2}{\text{graphene}}$ heterostructures. Physical Review Letters, 2020, 125, 256603.	7.8	38
11	Valley-polarized quantum transport generated by gauge fields in graphene. 2D Materials, 2017, 4, 031006.	4.4	35
12	Kubo-Bastin approach for the spin Hall conductivity of decorated graphene. 2D Materials, 2016, 3, 024007.	4.4	26
13	Deciphering the origin of nonlocal resistance in multiterminal graphene on hexagonal-boron-nitride with <i>ab initio</i> quantum transport: Fermi surface edge currents rather than Fermi sea topological valley currents. JPhys Materials, 2018, 1, 015006.	4.2	24
14	Quantum Hall effect in graphene with interface-induced spin-orbit coupling. Physical Review B, 2018, 97, .	3.2	20
15	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	5.1	20
16	Valley-polarized quantum anomalous Hall phase in bilayer graphene with layer-dependent proximity effects. Physical Review B, 2021, 104, .	3.2	18
17	Nonlocal Spin Dynamics in the Crossover from Diffusive to Ballistic Transport. Physical Review Letters, 2020, 124, 196602.	7.8	17
18	Manipulation of spin transport in graphene/transition metal dichalcogenide heterobilayers upon twisting. 2D Materials, 0, , .	4.4	16

#	ARTICLE	IF	CITATIONS
19	Adatoms and Anderson localization in graphene. <i>Physical Review B</i> , 2014, 90, .	3.2	13
20	Janus monolayers of magnetic transition metal dichalcogenides as an all-in-one platform for spin-orbit torque. <i>Physical Review B</i> , 2021, 104, .	3.2	13
21	Valley Hall effect and nonlocal resistance in locally gapped graphene. <i>Physical Review B</i> , 2021, 103, .	3.2	12
22	Low-symmetry topological materials for large charge-to-spin interconversion: The case of transition metal dichalcogenide monolayers. <i>Physical Review Research</i> , 2021, 3, .	3.6	11
23	Charge and spin transport anisotropy in nanopatterned graphene. <i>JPhys Materials</i> , 2018, 1, 015005.	4.2	10
24	Cloaking resonant scatterers and tuning electron flow in graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	8
25	Magnetism, spin dynamics, and quantum transport in two-dimensional systems. <i>MRS Bulletin</i> , 2020, 45, 357-365.	3.5	8
26	Have mysterious topological valley currents been observed in graphene superlattices?. <i>JPhys Materials</i> , 2022, 5, 021001.	4.2	8
27	Finite-size correction scheme for supercell calculations in Dirac-point two-dimensional materials. <i>Scientific Reports</i> , 2018, 8, 9348.	3.3	4
28	Shubnikovâ€“de Haas oscillations in the anomalous Hall conductivity of Chern insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	3
29	Giant valley-polarized spin splittings in magnetized Janus Pt dichalcogenides. <i>Physical Review B</i> , 2022, 105, .	3.2	3