

# Jose H Garcia

## List of Publications by Year in descending order

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29  
papers

1,338  
citations

516710

16  
h-index

501196

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g-index

32  
all docs

32  
docs citations

32  
times ranked

1268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Have mysterious topological valley currents been observed in graphene superlattices?. JPhys Materials, 2022, 5, 021001.	4.2	8
2	Magnetism, symmetry and spin transport in van der Waals layered systems. Nature Reviews Physics, 2022, 4, 150-166.	26.6	72
3	Giant valley-polarized spin splittings in magnetized Janus Pt dichalcogenides. Physical Review B, 2022, 105, .	3.2	3
4	Valley Hall effect and nonlocal resistance in locally gapped graphene. Physical Review B, 2021, 103, .	3.2	12
5	Linear scaling quantum transport methodologies. Physics Reports, 2021, 903, 1-69.	25.6	46
6	Janus monolayers of magnetic transition metal dichalcogenides as an all-in-one platform for spin-orbit torque. Physical Review B, 2021, 104, .	3.2	13
7	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	5.1	20
8	Valley-polarized quantum anomalous Hall phase in bilayer graphene with layer-dependent proximity effects. Physical Review B, 2021, 104, .	3.2	18
9	Low-symmetry topological materials for large charge-to-spin interconversion: The case of transition metal dichalcogenide monolayers. Physical Review Research, 2021, 3, .	3.6	11
10	Tunable room-temperature spin galvanic and spin Hall effects in van der Waals heterostructures. Nature Materials, 2020, 19, 170-175.	27.5	127
11	Canted Persistent Spin Texture and Quantum Spin Hall Effect in $WTe_2$ . Physical Review Letters, 2020, 125, 256603.	7.8	38
12	Magnetism, spin dynamics, and quantum transport in two-dimensional systems. MRS Bulletin, 2020, 45, 357-365.	3.5	8
13	Nonlocal Spin Dynamics in the Crossover from Diffusive to Ballistic Transport. Physical Review Letters, 2020, 124, 196602.	7.8	17
14	Room-Temperature Spin Hall Effect in Graphene/MoS <sub>2</sub> van der Waals Heterostructures. Nano Letters, 2019, 19, 1074-1082.	9.1	186
15	Large spin relaxation anisotropy and valley-Zeeman spin-orbit coupling in $WSe_2$ /graphene heterostructures. Physical Review B, 2018, 97, .	3.2	118
16	Quantum Hall effect in graphene with interface-induced spin-orbit coupling. Physical Review B, 2018, 97, .	3.2	20
17	Spin transport in graphene/transition metal dichalcogenide heterostructures. Chemical Society Reviews, 2018, 47, 3359-3379.	38.1	150
18	Charge and spin transport anisotropy in nanopatterned graphene. JPhys Materials, 2018, 1, 015005.	4.2	10

#	ARTICLE	IF	CITATIONS
19	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. <i>JPhys Materials</i> , 2018, 1, 015006.	4.2	24
20	Shubnikov-de Haas oscillations in the anomalous Hall conductivity of Chern insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	3
21	Finite-size correction scheme for supercell calculations in Dirac-point two-dimensional materials. <i>Scientific Reports</i> , 2018, 8, 9348.	3.3	4
22	Spin Hall Effect and Weak Antilocalization in Graphene/Transition Metal Dichalcogenide Heterostructures. <i>Nano Letters</i> , 2017, 17, 5078-5083.	9.1	91
23	Giant Spin Lifetime Anisotropy in Graphene Induced by Proximity Effects. <i>Physical Review Letters</i> , 2017, 119, 206601.	7.8	161
24	Valley-polarized quantum transport generated by gauge fields in graphene. <i>2D Materials</i> , 2017, 4, 031006.	4.4	35
25	Kubo-Bastin approach for the spin Hall conductivity of decorated graphene. <i>2D Materials</i> , 2016, 3, 024007.	4.4	26
26	Cloaking resonant scatterers and tuning electron flow in graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	8
27	Real-Space Calculation of the Conductivity Tensor for Disordered Topological Matter. <i>Physical Review Letters</i> , 2015, 114, 116602.	7.8	78
28	Adatoms and Anderson localization in graphene. <i>Physical Review B</i> , 2014, 90, .	3.2	13
29	Manipulation of spin transport in graphene/transition metal dichalcogenide heterobilayers upon twisting. <i>2D Materials</i> , 0, , .	4.4	16