

# David Soriano

## List of Publications by Year in descending order

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32  
papers

2,084  
citations

448610

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h-index

511568

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33  
all docs

33  
docs citations

33  
times ranked

3372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain Wall Formation and Magnon Localization in Twisted Chromium Trihalides. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	5
2	Spin-orbit correlations and exchange-bias control in twisted Janus dichalcogenide multilayers. New Journal of Physics, 2021, 23, 073038.	1.2	8
3	Environmental screening and ligand-field effects to magnetism in CrI <sub>3</sub> monolayer. Npj Computational Materials, 2021, 7, .	3.5	19
4	Electric-field controlled spin transport in bilayer CrI <sub>3</sub> . , 2021, , .		0
5	Electric-field controlled spin transport in bilayer CrI <sub>3</sub> . , 2021, , .		0
6	Magnetic polaron and antiferromagnetic-ferromagnetic transition in doped bilayer $\text{CrI}_3$ . Physical Review B, 2020, 101, .		0
7	Magnetic Two-Dimensional Chromium Trihalides: A Theoretical Perspective. Nano Letters, 2020, 20, 6225-6234.	4.5	103
8	Thermal ripples in bilayer graphene. Physical Review B, 2020, 102, .	1.1	3
9	Exchange-bias controlled correlations in magnetically encapsulated twisted van der Waals dichalcogenides. Journal Physics D: Applied Physics, 2020, 53, 474001.	1.3	12
10	Interplay between interlayer exchange and stacking in CrI <sub>3</sub> bilayers. Solid State Communications, 2019, 299, 113662.	0.9	132
11	Spin Proximity Effects in Graphene/Topological Insulator Heterostructures. Nano Letters, 2018, 18, 2033-2039.	4.5	86
12	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. Science, 2018, 360, 1218-1222.	6.0	668
13	Van der Waals Spin Valves. Physical Review Letters, 2018, 121, 067701.	2.9	132
14	Grain boundary-induced variability of charge transport in hydrogenated polycrystalline graphene. 2D Materials, 2017, 4, 025009.	2.0	5
15	Large edge magnetism in oxidized few-layer black phosphorus nanomeshes. Nano Research, 2017, 10, 718-728.	5.8	27
16	Localized electronic states at grain boundaries on the surface of graphene and graphite. 2D Materials, 2016, 3, 031005.	2.0	26
17	How disorder affects topological surface states in the limit of ultrathin Bi <sub>2</sub> Se <sub>3</sub> films. 2D Materials, 2016, 3, 045007.	2.0	2
18	Spin dynamics and relaxation in graphene dictated by electron-hole puddles. Scientific Reports, 2016, 6, 21046.	1.6	67

#	ARTICLE	IF	CITATIONS
19	Spin transport in hydrogenated graphene. 2D Materials, 2015, 2, 022002.	2.0	81
20	Tunneling magnetoresistance phenomenon utilizing graphene magnet electrode. Applied Physics Letters, 2014, 105, 183111.	1.5	17
21	Multiple Quantum Phases in Graphene with Enhanced Spin-Orbit Coupling: From the Quantum Spin Hall Regime to the Spin Hall Effect and a Robust Metallic State. Physical Review Letters, 2014, 113, 246603.	2.9	39
22	Anomalous exchange interaction between intrinsic spins in conducting graphene systems. Physical Review B, 2014, 89, .	1.1	6
23	Pseudospin-driven spin relaxation mechanism in graphene. Nature Physics, 2014, 10, 857-863.	6.5	86
24	Quantum transport in disordered graphene: A theoretical perspective. Solid State Communications, 2012, 152, 1404-1410.	0.9	93
25	Spin-filtered edge states in graphene. Solid State Communications, 2012, 152, 1469-1476.	0.9	13
26	Three-Dimensional Models of Topological Insulators: Engineering of Dirac Cones and Robustness of the Spin Texture. Physical Review Letters, 2012, 109, 266805.	2.9	20
27	Interplay between sublattice and spin symmetry breaking in graphene. Physical Review B, 2012, 85, .	1.1	35
28	Magnetoresistance and Magnetic Ordering Fingerprints in Hydrogenated Graphene. Physical Review Letters, 2011, 107, 016602.	2.9	132
29	Magnetism-Dependent Transport Phenomena in Hydrogenated Graphene: From Spin-Splitting to Localization Effects. ACS Nano, 2011, 5, 3987-3992.	7.3	47
30	Hydrogenated graphene nanoribbons for spintronics. Physical Review B, 2010, 81, .	1.1	119
31	Spontaneous persistent currents in a quantum spin Hall insulator. Physical Review B, 2010, 82, .	1.1	60
32	Localized basis sets for unbound electrons in nanoelectronics. Journal of Chemical Physics, 2008, 128, 074108.	1.2	3