

# Mohammad Alidoust

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,741  
citations

185998  
28  
h-index

288905  
40  
g-index

53  
all docs

53  
docs citations

53  
times ranked

909  
citing authors



#	ARTICLE	IF	CITATIONS
19	Meissner effect probing of odd-frequency triplet pairing in superconducting spin valves. Physical Review B, 2014, 89, .	1.1	41
20	Half-metallic superconducting triplet spin multivalves. Physical Review B, 2018, 97, .	1.1	41
21	Proximity induced vortices and long-range triplet supercurrents in ferromagnetic Josephson junctions and spin valves. Journal of Applied Physics, 2015, 117, 123906.	1.1	39
22	Josephson currents and spin-transfer torques in ballistic SFSFS nanojunctions. Superconductor Science and Technology, 2016, 29, 055007.	1.8	38
23	Supercurrent diode effect, spin torques, and robust zero-energy peak in planar half-metallic trilayers. Physical Review B, 2022, 105, .	1.1	35
24	Self-biased current, magnetic interference response, and superconducting vortices in tilted Weyl semimetals with disorder. Physical Review B, 2018, 98, .	1.1	34
25	Critical supercurrent and $\uparrow$ state for probing a persistent spin helix. Physical Review B, 2020, 101, .	1.1	33
26	Spin-controlled coexistence of $0$ and $\uparrow$ states in $S/F/S$ junctions. Physical Review B, 2014, 89, .	1.1	33
27	Fraunhofer response and supercurrent spin switching in black phosphorus with strain and disorder. Physical Review B, 2018, 98, .	1.1	33
28	Waveguide modes in Weyl semimetals with tilted dirac cones. Optics Express, 2019, 27, 36164.	1.7	31
29	Pure odd-frequency superconductivity at the cores of proximity vortices. Physical Review B, 2017, 95, .	1.1	27
30	Symmetry of superconducting correlations in displaced bilayers of graphene. Physical Review B, 2019, 99, .	1.1	27
31	Tunable supercurrent at the charge neutrality point via strained graphene junctions. Physical Review B, 2011, 84, .	1.1	25
32	Thermal transport properties of graphene-based ferromagnetic/singlet superconductor/ferromagnetic junctions. Journal of Applied Physics, 2010, 107, .	1.1	24
33	Evolution of pair correlation symmetries and supercurrent reversal in tilted Weyl semimetals. Physical Review B, 2020, 101, .	1.1	24
34	Strain-engineered widely tunable perfect absorption angle in black phosphorus from first principles. Physical Review B, 2020, 102, .	1.1	23
35	Signatures of d-wave symmetry on thermal Dirac fermions in graphene-based $F I d$ junctions. Journal of Applied Physics, 2010, 108, .	1.1	20
36	In-plane magnetoresistance on the surface of topological insulator. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 966-970.	1.3	20

#	ARTICLE	IF	CITATIONS
37	Induced energy gap in finite-sized superconductor/ferromagnet hybrids. <i>Physical Review B</i> , 2018, 98, .	1.1	20
38	Control of superconducting pairing symmetries in monolayer black phosphorus. <i>Physical Review B</i> , 2019, 99, .	1.1	20
39	Non-Fraunhofer Interference Pattern in Inhomogeneous Ferromagnetic Josephson Junctions. <i>Physical Review Letters</i> , 2012, 108, 037001.	2.9	18
40	Strain-controlled spin and charge pumping in graphene devices via spin-orbit coupled barriers. <i>Europhysics Letters</i> , 2015, 111, 67005.	0.7	18
41	Asymmetric ferromagnetic resonance, universal Walker breakdown, and counterflow domain wall motion in the presence of multiple spin-orbit torques. <i>Physical Review B</i> , 2013, 88, .	1.1	17
42	Singlet-triplet superconducting quantum magnetometer. <i>Physical Review B</i> , 2013, 88, .	1.1	15
43	Superconducting phase transistor in diffusive four-terminal ferromagnetic Josephson junctions. <i>Physical Review B</i> , 2012, 85, .	1.1	12
44	Josephson effect in graphene bilayers with adjustable relative displacement. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
45	Phase-controlled proximity effect in ferromagnetic Josephson junctions: Calculation of the density of states and the electronic specific heat. <i>Physical Review B</i> , 2010, 82, .	1.1	10
46	Controllable nonreciprocal optical response and handedness-switching in magnetized spin-orbit coupled graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	10
47	Characteristic energies, transition temperatures, and switching effects in clean S N S graphene nanostructures. <i>Physical Review B</i> , 2011, 84, .	1.1	9
48	Comparison of optical response from DFT random phase approximation and a low-energy effective model: Strained phosphorene. <i>Physical Review B</i> , 2021, 104, .	1.1	9
49	Long-range triplet supercurrents induced by singlet supercurrents parallel to magnetic interfaces. <i>Applied Physics Letters</i> , 2014, 105, 202601.	1.5	6
50	Supercurrent reversal in two-dimensional topological insulators. <i>Physical Review B</i> , 2015, 92, .	1.1	6
51	Supergap and subgap enhanced currents in asymmetric $S_1/S_2$ Josephson junctions. <i>Physical Review B</i> , 2020, 102, .	1.1	5
52	Density functional simulations of pressurized Mg-Zn and Al-Zn alloys. <i>Physical Review Materials</i> , 2020, 4, .	0.9	4
53	Machine-learned model Hamiltonian and strength of spin-orbit interaction in strained Mg <sub>2</sub> X (X = Si, )	0.7	4