Mohammad Alidoust

List of Publications by Year
in descending order

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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
1	Controllable nonreciprocal optical response and handedness-switching in magnetized spin-orbit coupled graphene. Physical Review B, 2022, 105, .	1.1	10
2	Supercurrent diode effect, spin torques, and robust zero-energy peak in planar half-metallic trilayers. Physical Review B, 2022, 105, .	1.1	35
3	Cubic spin-orbit coupling and anomalous Josephson effect in planar junctions. Physical Review B, 2021, 103, .	1.1	54
4	Comparison of optical response from DFT random phase approximation and a low-energy effective model: Strained phosphorene. Physical Review B, 2021, 104, .	1.1	9
5	Strain-engineered widely tunable perfect absorption angle in black phosphorus from first principles. Physical Review B, 2020, 102, .	1.1	23
6	Supergap and subgap enhanced currents in asymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>1</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">FS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Josephson junctions. Physical Review B, 2020, 102, .	1.1	5
7	Evolution of pair correlation symmetries and supercurrent reversal in tilted Weyl semimetals. Physical Review B, 2020, 101, .	1.1	24
8	Critical supercurrent and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:m state for probing a persistent spin helix. Physical Review B, 2020, 101, .	1.1	34
9	Josephson effect in graphene bilayers with adjustable relative displacement. Physical Review Research, 2020, 2, .	1.3	12
10	Density functional simulations of pressurized Mg-Zn and Al-Zn alloys. Physical Review Materials, 2020, 4, .	0.9	4
11	Control of superconducting pairing symmetries in monolayer black phosphorus. Physical Review B, 2019, 99, .	1.1	20
12	Symmetry of superconducting correlations in displaced bilayers of graphene. Physical Review B, 2019, 99, .	1.1	27
13	Waveguide modes in Weyl semimetals with tilted dirac cones. Optics Express, 2019, 27, 36164.	1.7	31
14	Half-metallic superconducting triplet spin multivalves. Physical Review B, 2018, 97, .	1.1	41
15	Fraunhofer response and supercurrent spin switching in black phosphorus with strain and disorder. Physical Review B, 2018, 98, .	1.1	33
16	Self-biased current, magnetic interference response, and superconducting vortices in tilted Weyl semimetals with disorder. Physical Review B, 2018, 98, .	1.1	34
17	Induced energy gap in finite-sized superconductor/ferromagnet hybrids. Physical Review B, 2018, 98, .	1.1	20
18	Epsilon-near-zero response and tunable perfect absorption in Weyl semimetals. Physical Review B, 2018, 98, .	1.1	65

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19	Strain-engineered Majorana zero energy modes and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ït</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:m Josephson state in black phosphorus. Physical Review B, 2018, 98, .	1.1	46
20	Pure odd-frequency superconductivity at the cores of proximity vortices. Physical Review B, 2017, 95, .	1.1	27
21	Nonlocal Andreev entanglements and triplet correlations in graphene with spin-orbit coupling. Physical Review B, 2017, 96, .	1.1	47
22	Spontaneous supercurrent and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ït</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:m phase shift parallel to magnetized topological insulator interfaces. Physical Review B, 2017, 96, .	1.1	48
23	Magnetization Control and Transfer of Spin-Polarized Cooper Pairs into a Half-Metal Manganite. Physical Review Applied, 2017, 8, .	1.5	45
24	Superconductivity in type-II Weyl semimetals. Physical Review B, 2017, 95, .	1.1	58
25	Magnetoelectrics in disordered topological insulator Josephson junctions. Physical Review B, 2016, 94, .	1.1	81
26	Half-metallic superconducting triplet spin valve. Physical Review B, 2016, 94, .	1.1	57
27	Tunable anomalous Andreev reflection and triplet pairings in spin-orbit-coupled graphene. Physical Review B, 2016, 94, .	1.1	45
28	Josephson junction through a disordered topological insulator with helical magnetization. Physical Review B, 2016, 93, .	1.1	79
29	Josephson currents and spin-transfer torques in ballistic SFSFS nanojunctions. Superconductor Science and Technology, 2016, 29, 055007.	1.8	38
30	Supercurrent reversal in two-dimensional topological insulators. Physical Review B, 2015, 92, .	1.1	6
31	Long-range spin-triplet correlations and edge spin currents in diffusive spinâ€“orbit coupled SNS hybrids with a single spin-active interface. Journal of Physics Condensed Matter, 2015, 27, 235301.	0.7	44
32	Strain-controlled spin and charge pumping in graphene devices via spin-orbit coupled barriers. Europhysics Letters, 2015, 111, 67005.	0.7	18
33	Spontaneous edge accumulation of spin currents in finite-size two-dimensional diffusive spinâ€“orbit coupledSFSheterostructures. New Journal of Physics, 2015, 17, 033001.	1.2	53
34	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
35	Zero-energy peak and triplet correlations in nanoscale superconductor/ferromagnet/ferromagnet spin valves. Physical Review B, 2015, 92, .	1.1	58
36	Long-range triplet supercurrents induced by singlet supercurrents parallel to magnetic interfaces. Applied Physics Letters, 2014, 105, 202601.	1.5	6

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37	Meissner effect probing of odd-frequency triplet pairing in superconducting spin valves. Physical Review B, 2014, 89, .	1.1	41
38	Spin-controlled coexistence of 0 and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math>states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mi>F</mml:mi><mml:mi>S</mml:mi><mml:mi><junctions. Physical Review B, 2014, 89, .	1.1	33
39	Spin-Controlled Superconductivity and Tunable Triplet Correlations in Graphene Nanostructures. Physical Review Letters, 2013, 111, 046602.	2.9	46
40	Asymmetric ferromagnetic resonance, universal Walker breakdown, and counterflow domain wall motion in the presence of multiple spin-orbit torques. Physical Review B, 2013, 88, .	1.1	17
41	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï†</mml:mi></mml:math>-state and inverted Fraunhofer pattern in nonaligned Josephson junctions. Physical Review B, 2013, 87, .	1.1	45
42	Singlet-triplet superconducting quantum magnetometer. Physical Review B, 2013, 88, .	1.1	15
43	Superconducting phase transistor in diffusive four-terminal ferromagnetic Josephson junctions. Physical Review B, 2012, 85, .	1.1	12
44	Non-Fraunhofer Interference Pattern in Inhomogeneous Ferromagnetic Josephson Junctions. Physical Review Letters, 2012, 108, 037001.	2.9	18
45	In-plane magnetoresistance on the surface of topological insulator. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 966-970.	1.3	20
46	Characteristic energies, transition temperatures, and switching effects in clean S|N|S graphene nanostructures. Physical Review B, 2011, 84, .	1.1	9
47	Tunable supercurrent at the charge neutrality point via strained graphene junctions. Physical Review B, 2011, 84, .	1.1	25
48	Spin-triplet supercurrent through inhomogeneous ferromagnetic trilayers. Physical Review B, 2010, 82, .	1.1	46
49	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
50	Phase-controlled proximity effect in ferromagnetic Josephson junctions: Calculation of the density of states and the electronic specific heat. Physical Review B, 2010, 82, .	1.1	10
51	Spin-polarized Josephson current in superconductor/ferromagnet/superconductor junctions with inhomogeneous magnetization. Physical Review B, 2010, 81, .	1.1	82
52	Thermal transport properties of graphene-based ferromagnetic/singlet superconductor/ferromagnetic junctions. Journal of Applied Physics, 2010, 107, .	1.1	24
53	Machine-learned model Hamiltonian and strength of spin-orbit interaction in strained Mg2X (X = Si,) Tj ETQq1 1 0.784314 rgBT /Over	0.7	2