

Alex Aperis

List of Publications by Year in descending order

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36
papers

823
citations

430874

18
h-index

477307

29
g-index

36
all docs

36
docs citations

36
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of multigap superconductivity in the atomically thin limit: Strain-enhanced three-gap superconductivity in monolayer MgB_2 . Physical Review B, 2017, 96, .	3.2	75
2	Discovery of topological nodal-line fermionic phase in a magnetic material GdSbTe. Scientific Reports, 2018, 8, 13283.	3.3	70
3	Magnetic-Field-Induced Pattern of Coexisting Condensates in the Superconducting State of CeCoIn_5 . Physical Review Letters, 2010, 104, 216403.	7.8	64
4	Hydrogen-Induced High-Temperature Superconductivity in Two-Dimensional Materials: The Example of Hydrogenated Monolayer MgB_2 . Physical Review Letters, 2019, 123, 077001.	7.8	64
5	High-Pressure Synthesis of Magnetic Neodymium Polyhydrides. Journal of the American Chemical Society, 2020, 142, 2803-2811.	13.7	59
6	<i>Ab initio</i> theory of magnetic-field-induced odd-frequency two-band superconductivity in MgB_2 . Physical Review B, 2015, 92, .	3.2	53
7	Coexistence of spin density wave, d-wave singlet and staggered d_{xy} -triplet superconductivity. Journal of Physics Condensed Matter, 2008, 20, 434235.	1.8	40
8	Observation of gapless Dirac surface states in ZrGeTe. Physical Review B, 2018, 97, .	3.2	34
9	Multiband full-bandwidth anisotropic Eliashberg theory of interfacial electron-phonon coupling and MgB_2 . Physical Review B, 2018, 97, .	3.2	34
10	Advanced first-principles theory of superconductivity including both lattice vibrations and spin fluctuations: The case of FeB_2 . Physical Review B, 2018, 97, .	3.2	28
11	Free surfaces recast superconductivity in few-monolayer MgB_2 : Combined first-principles and ARPES demonstration. Scientific Reports, 2017, 7, 14458.	3.3	27
12	Small- q phonon-mediated unconventional superconductivity in the iron pnictides. Physical Review B, 2011, 83, .	3.2	23
13	Anisotropic type-I superconductivity and anomalous superfluid density in OsB_2 . Physical Review B, 2016, 94, .	3.2	23
14	Full-bandwidth Eliashberg theory of superconductivity beyond Migdal's approximation. Physical Review B, 2020, 102, .	3.2	23
15	Nematicity from mixed S and d_{xy} in iron-based superconductors. Physical Review B, 2015, 91, .	3.2	20
16	Eliashberg theory for spin fluctuation mediated superconductivity: Application to bulk and monolayer FeSe. Physical Review B, 2020, 102, .	3.2	20
17	Holographic charge density waves. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 181-185.	4.1	19
18	Self-consistent temperature dependence of quasiparticle bands in monolayer FeSe on SrTiO_3 . Physical Review B, 2018, 98, .	3.2	19

#	ARTICLE	IF	CITATIONS
19	Distinct multiple fermionic states in a single topological metal. Nature Communications, 2018, 9, 3002.	12.8	16
20	Increased performance of Matsubara space calculations: A case study within Eliashberg theory. Physical Review B, 2019, 99, .	3.2	14
21	Multichannel superconductivity of monolayer FeSe on SrTiO_3 : Interplay of spin fluctuations and electron-phonon interaction. Physical Review B, 2020, 102, .	3.2	14
22	Phonon-mode specific contributions to room-temperature superconductivity in atomic hydrogen at high pressures. Physical Review B, 2021, 103, .	3.2	13
23	Prominent Cooper pairing away from the Fermi level and its spectroscopic signature in twisted bilayer graphene. Physical Review Research, 2020, 2, .	3.6	11
24	New field-induced spin density wave phenomena from the Pauli terms in excitonic insulators. Europhysics Letters, 2008, 83, 67008.	2.0	10
25	Influence of electron-phonon coupling strength on signatures of even and odd-frequency superconductivity. Annals of Physics, 2020, 417, 168095.	2.8	8
26	Magnetic-field-induced chiral hidden order in URu_2Si_2 . Philosophical Magazine, 2014, 94, 3789-3802.	1.6	7
27	Unconventional superconductivity mediated solely by isotropic electron-phonon interaction. Physical Review B, 2021, 104, .	3.2	7
28	Magnetic Properties of an Antiferromagnetic d-Wave Singlet and $\text{d}^2\text{-}f^2$ -Triplet Superconductor. Journal of Superconductivity and Novel Magnetism, 2009, 22, 115-118.	1.8	6
29	Influence of phonon renormalization in Eliashberg theory for superconductivity in two- and three-dimensional systems. Physical Review B, 2021, 103, .	3.2	5
30	Cascade of replica bands in flat-band systems: Predictions for twisted bilayer graphene. Physical Review B, 2021, 103, .	3.2	3
31	Exploring multichannel superconductivity in ThFeAsN . Physical Review B, 2021, 104, .	3.2	3
32	Induced odd-frequency superconducting state in vertex-corrected Eliashberg theory. Physical Review B, 2021, 104, .	3.2	3
33	Strong momentum-dependent electron-magnon renormalization of a surface resonance on iron. Applied Physics Letters, 2022, 120, .	3.3	3
34	Metamagnetic transitions and CMR from the coexistence and competition of CDW, SDW and FM. Journal of Physics: Conference Series, 2009, 150, 042007.	0.4	2
35	Prediction of an unusual trigonal phase of superconducting LaH_{10} stable at high pressures. Physical Review B, 2021, 104, .	3.2	2
36	Charge density waves beyond the Pauli paramagnetic limit in 2D systems. Journal of Applied Physics, 2020, 128, 083901.	2.5	1