

Milan Allan

List of Publications by Citations

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32
papers

1,302
citations

15
h-index

32
g-index

32
ext. papers

1,537
ext. citations

11.8
avg, IF

3.96
L-index

#	Paper	IF	Citations
32	Nematic electronic structure in the "parent" state of the iron-based superconductor $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Science</i> , 2010 , 327, 181-4	33.3	397
31	Imaging Cooper pairing of heavy fermions in CeCoIn_5 . <i>Nature Physics</i> , 2013 , 9, 468-473	16.2	143
30	Anisotropic energy gaps of iron-based superconductivity from intraband quasiparticle interference in LiFeAs . <i>Science</i> , 2012 , 336, 563-7	33.3	139
29	Anisotropic impurity states, quasiparticle scattering and nematic transport in underdoped $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Nature Physics</i> , 2013 , 9, 220-224	16.2	107
28	Fermi surface and van Hove singularities in the itinerant Metamagnet $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>Physical Review Letters</i> , 2008 , 101, 026407	7.4	82
27	Universality of pseudogap and emergent order in lightly doped Mott insulators. <i>Nature Physics</i> , 2017 , 13, 21-25	16.2	56
26	Heavy d-electron quasiparticle interference and real-space electronic structure of $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>Nature Physics</i> , 2009 , 5, 800-804	16.2	51
25	Observation of flat bands in twisted bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 189-193	16.2	45
24	How Kondo-holes create intense nanoscale heavy-fermion hybridization disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18233-7	11.5	37
23	Direct evidence for a magnetic f-electron-mediated pairing mechanism of heavy-fermion superconductivity in CeCoIn_5 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11663-7	11.5	36
22	Tunable self-assembly of one-dimensional nanostructures with orthogonal directions. <i>Nanoscale Research Letters</i> , 2007 , 2, 94-99	5	35
21	Identifying the fingerprint of antiferromagnetic spin fluctuations in iron pnictide superconductors. <i>Nature Physics</i> , 2015 , 11, 177-182	16.2	30
20	Poor electronic screening in lightly doped Mott insulators observed with scanning tunneling microscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	20
19	A strongly inhomogeneous superfluid in an iron-based superconductor. <i>Nature</i> , 2019 , 571, 541-545	50.4	19
18	Amplifier for scanning tunneling microscopy at MHz frequencies. <i>Review of Scientific Instruments</i> , 2018 , 89, 093709	1.7	17
17	Formation of heavy d-electron quasiparticles in $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>New Journal of Physics</i> , 2013 , 15, 063029	2.9	14
16	Imaging doubled shot noise in a Josephson scanning tunneling microscope. <i>Physical Review B</i> , 2019 , 100,	3.3	9

15	Definition of design guidelines, construction, and performance of an ultra-stable scanning tunneling microscope for spectroscopic imaging. <i>Review of Scientific Instruments</i> , 2018 , 89, 123705	1.7	9
14	Robust procedure for creating and characterizing the atomic structure of scanning tunneling microscope tips. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2389-2395	3	7
13	Photoelectron Diffraction for a Look inside Nanostructures. <i>Chimia</i> , 2006 , 60, 795-799	1.3	7
12	Charge trapping and super-Poissonian noise centres in a cuprate superconductor. <i>Nature Physics</i> , 2018 , 14, 1183-1187	16.2	7
11	Revisiting quasiparticle scattering interference in high-temperature superconductors: The problem of narrow peaks. <i>Physical Review B</i> , 2017 , 96,	3.3	6
10	Measuring local moiré lattice heterogeneity of twisted bilayer graphene. <i>Physical Review Research</i> , 2021 , 3,	3.9	6
9	Creating better superconductors by periodic nanopatterning. <i>SciPost Physics</i> , 2017 , 3,	6.1	5
8	Spatially dispersing Yu-Shiba-Rusinov states in the unconventional superconductor FeTeSe. <i>Nature Communications</i> , 2021 , 12, 298	17.4	5
7	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above. <i>Science</i> , 2021 , 374, 608-611	33.3	4
6	Nanofabricated tips for device-based scanning tunneling microscopy. <i>Nanotechnology</i> , 2019 , 30, 335702	3.4	2
5	Imaging moiré deformation and dynamics in twisted bilayer graphene.. <i>Nature Communications</i> , 2022 , 13, 70	17.4	2
4	Fabrication of on-chip probes for double-tip scanning tunneling microscopy. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 99	7.7	2
3	Direct comparison of ARPES, STM, and quantum oscillation data for band structure determination in Sr ₂ RhO ₄ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	1
2	Modeling Green's function measurements with two-tip scanning tunneling microscopy. <i>Physical Review B</i> , 2020 , 102,	3.3	1
1	Multi-atom quasiparticle scattering interference for superconductor energy-gap symmetry determination. <i>Npj Quantum Materials</i> , 2021 , 6,	5	1