

# Milan Allan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Imaging moiré deformation and dynamics in twisted bilayer graphene.. <i>Nature Communications</i> , <b>2022</b> , 13, 70	17.4	2
31	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above. <i>Science</i> , <b>2021</b> , 374, 608-611	33.3	4
30	Observation of flat bands in twisted bilayer graphene. <i>Nature Physics</i> , <b>2021</b> , 17, 189-193	16.2	45
29	Spatially dispersing Yu-Shiba-Rusinov states in the unconventional superconductor FeTeSe. <i>Nature Communications</i> , <b>2021</b> , 12, 298	17.4	5
28	Multi-atom quasiparticle scattering interference for superconductor energy-gap symmetry determination. <i>Npj Quantum Materials</i> , <b>2021</b> , 6,	5	1
27	Measuring local moiré lattice heterogeneity of twisted bilayer graphene. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	6
26	Direct comparison of ARPES, STM, and quantum oscillation data for band structure determination in Sr <sub>2</sub> RhO <sub>4</sub> . <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	1
25	Fabrication of on-chip probes for double-tip scanning tunneling microscopy. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 99	7.7	2
24	Modeling Green's function measurements with two-tip scanning tunneling microscopy. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
23	Nanofabricated tips for device-based scanning tunneling microscopy. <i>Nanotechnology</i> , <b>2019</b> , 30, 335702	3.4	2
22	A strongly inhomogeneous superfluid in an iron-based superconductor. <i>Nature</i> , <b>2019</b> , 571, 541-545	50.4	19
21	Imaging doubled shot noise in a Josephson scanning tunneling microscope. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
20	Definition of design guidelines, construction, and performance of an ultra-stable scanning tunneling microscope for spectroscopic imaging. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 123705	1.7	9
19	Charge trapping and super-Poissonian noise centres in a cuprate superconductor. <i>Nature Physics</i> , <b>2018</b> , 14, 1183-1187	16.2	7
18	Amplifier for scanning tunneling microscopy at MHz frequencies. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 093709	1.7	17
17	Revisiting quasiparticle scattering interference in high-temperature superconductors: The problem of narrow peaks. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6
16	Robust procedure for creating and characterizing the atomic structure of scanning tunneling microscope tips. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 2389-2395	3	7

15	Poor electronic screening in lightly doped Mott insulators observed with scanning tunneling microscopy. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	20
14	Universality of pseudogap and emergent order in lightly doped Mott insulators. <i>Nature Physics</i> , <b>2017</b> , 13, 21-25	16.2	56
13	Creating better superconductors by periodic nanopatterning. <i>SciPost Physics</i> , <b>2017</b> , 3,	6.1	5
12	Identifying the YingerprintYof antiferromagnetic spin fluctuations in iron pnictide superconductors. <i>Nature Physics</i> , <b>2015</b> , 11, 177-182	16.2	30
11	Direct evidence for a magnetic f-electron-mediated pairing mechanism of heavy-fermion superconductivity in CeCoIn5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11663-7	11.5	36
10	Imaging Cooper pairing of heavy fermions in CeCoIn5. <i>Nature Physics</i> , <b>2013</b> , 9, 468-473	16.2	143
9	Anisotropic impurity states, quasiparticle scattering and nematic transport in underdoped Ca(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> . <i>Nature Physics</i> , <b>2013</b> , 9, 220-224	16.2	107
8	Formation of heavy d-electron quasiparticles in Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>New Journal of Physics</i> , <b>2013</b> , 15, 063029	2.9	14
7	Anisotropic energy gaps of iron-based superconductivity from intraband quasiparticle interference in LiFeAs. <i>Science</i> , <b>2012</b> , 336, 563-7	33.3	139
6	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> , <b>2011</b> , 108, 18233-7	11.5	37
5	Nematic electronic structure in the "parent" state of the iron-based superconductor Ca(Fe <sub>(1-x)</sub> Co <sub>(x)</sub> ) <sub>2</sub> As <sub>2</sub> . <i>Science</i> , <b>2010</b> , 327, 181-4	33.3	397
4	Heavy d-electron quasiparticle interference and real-space electronic structure of Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Nature Physics</i> , <b>2009</b> , 5, 800-804	16.2	51
3	Fermi surface and van Hove singularities in the itinerant Metamagnet Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>2008</b> , 101, 026407	7.4	82
2	Tunable self-assembly of one-dimensional nanostructures with orthogonal directions. <i>Nanoscale Research Letters</i> , <b>2007</b> , 2, 94-99	5	35
1	Photoelectron Diffraction for a Look inside Nanostructures. <i>Chimia</i> , <b>2006</b> , 60, 795-799	1.3	7