

Ali Yazdani

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.

91
papers

10,737
citations

44
h-index

102
g-index

102
ext. papers

12,768
ext. citations

19.9
avg, IF

6.22
L-index

#	Paper	IF	Citations
91	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2022 , 375, 321-326	33.3	9
90	Evidence for a monolayer excitonic insulator. <i>Nature Physics</i> , 2022 , 18, 87-93	16.2	6
89	Catalogue of flat-band stoichiometric materials.. <i>Nature</i> , 2022 , 603, 824-828	50.4	4
88	Evidence for unconventional superconductivity in twisted bilayer graphene. <i>Nature</i> , 2021 , 600, 240-245	50.4	16
87	Magic, symmetry, and twisted matter. <i>Science</i> , 2021 , 371, 1098-1099	33.3	3
86	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021 , 6, 201-206	73.3	41
85	Tuning interactions between spins in a superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
84	Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. <i>Physical Review B</i> , 2021 , 103,	3.3	32
83	Spectroscopy of a tunable moiré system with a correlated and topological flat band. <i>Nature Communications</i> , 2021 , 12, 2732	17.4	9
82	Detecting and distinguishing Majorana zero modes with the scanning tunnelling microscope. <i>Nature Reviews Physics</i> , 2021 , 3, 541-554	23.6	5
81	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2021 , eabm37701	33.3	9
80	Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020 , 588, 610-615	50.4	81
79	Cascade of electronic transitions in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020 , 582, 198-202	50.4	119
78	Observation of backscattering induced by magnetism in a topological edge state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16214-16218	11.5	4
77	High mobility in a van der Waals layered antiferromagnetic metal. <i>Science Advances</i> , 2020 , 6, eaay6407	14.3	40
76	A modular ultra-high vacuum millikelvin scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2020 , 91, 023703	1.7	9
75	Observation of a Majorana zero mode in a topologically protected edge channel. <i>Science</i> , 2019 , 364, 1255-1259	33.3	64

74	Interacting multi-channel topological boundary modes in a quantum Hall valley system. <i>Nature</i> , 2019 , 566, 363-367	50.4	14
73	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019 , 572, 101-105	50.4	239
72	Imaging Anyons with Scanning Tunneling Microscopy. <i>Physical Review X</i> , 2018 , 8,	9.1	11
71	Visualizing heavy fermion confinement and Pauli-limited superconductivity in layered CeCoIn. <i>Nature Communications</i> , 2018 , 9, 549	17.4	4
70	Majorana spin in magnetic atomic chain systems. <i>Physical Review B</i> , 2018 , 97,	3.3	21
69	Higher-Order Topology in Bismuth. <i>Nature Physics</i> , 2018 , 14, 918-924	16.2	328
68	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , 2018 , 14, 796-800	16.2	9
67	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , 2017 , 358, 772-776	33.3	121
66	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , 2017 , 13, 286-291	16.2	123
65	Large discrete jumps observed in the transition between Chern states in a ferromagnetic topological insulator. <i>Science Advances</i> , 2016 , 2, e1600167	14.3	43
64	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	48
63	Scanning Josephson spectroscopy on the atomic scale. <i>Physical Review B</i> , 2016 , 93,	3.3	34
62	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016 , 18, 105003	2.9	17
61	Layer-dependent quantum cooperation of electron and hole states in the anomalous semimetal WTe ₂ . <i>Nature Communications</i> , 2016 , 7, 10847	17.4	75
60	Observation of a nematic quantum Hall liquid on the surface of bismuth. <i>Science</i> , 2016 , 354, 316-321	33.3	54
59	Spectroscopic Imaging of Strongly Correlated Electronic States. <i>Annual Review of Condensed Matter Physics</i> , 2016 , 7, 11-33	19.7	34
58	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. <i>Science</i> , 2016 , 351, 1184-7	33.3	130
57	Sn-doped Bi _{1.1} Sb _{0.9} Te ₂ S bulk crystal topological insulator with excellent properties. <i>Nature Communications</i> , 2016 , 7, 11456	17.4	76

56	Quasi-particle interference of heavy fermions in resonant x-ray scattering. <i>Science Advances</i> , 2016 , 2, e1601086	14.3	4
55	Manipulating Majorana zero modes on atomic rings with an external magnetic field. <i>Nature Communications</i> , 2016 , 7, 10395	17.4	45
54	Polytypism, polymorphism, and superconductivity in TaSe(2-x)Te(x). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1174-80	11.5	69
53	Visualizing Majorana fermions in a chain of magnetic atoms on a superconductor. <i>Physica Scripta</i> , 2015 , T164, 014012	2.6	3
52	The crystal and electronic structures of Cd(3)As(2), the three-dimensional electronic analogue of graphene. <i>Inorganic Chemistry</i> , 2014 , 53, 4062-7	5.1	149
51	Ubiquitous interplay between charge ordering and high-temperature superconductivity in cuprates. <i>Science</i> , 2014 , 343, 393-6	33.3	425
50	One-dimensional topological edge states of bismuth bilayers. <i>Nature Physics</i> , 2014 , 10, 664-669	16.2	238
49	Topological matter. Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , 2014 , 346, 602-7	33.3	1222
48	Landau quantization and quasiparticle interference in the three-dimensional Dirac semimetal CdAs. <i>Nature Materials</i> , 2014 , 13, 851-6	27	357
47	Visualizing Heavy Fermion Formation and their Unconventional Superconductivity in f-Electron Materials. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 061008	1.5	9
46	Visualizing nodal heavy fermion superconductivity in CeCoIn5. <i>Nature Physics</i> , 2013 , 9, 474-479	16.2	142
45	Visualizing Topological Surface States and their Novel Properties using Scanning Tunneling Microscopy and Spectroscopy. <i>Contemporary Concepts of Condensed Matter Science</i> , 2013 , 175-198		3
44	Topological superconductivity and Majorana fermions in RKKY systems. <i>Physical Review Letters</i> , 2013 , 111, 186805	7.4	320
43	Proposal for realizing Majorana fermions in chains of magnetic atoms on a superconductor. <i>Physical Review B</i> , 2013 , 88,	3.3	438
42	Design and performance of an ultra-high vacuum scanning tunneling microscope operating at dilution refrigerator temperatures and high magnetic fields. <i>Review of Scientific Instruments</i> , 2013 , 84, 103903	1.7	38
41	Measurements of the magnetic-field-tuned conductivity of disordered two-dimensional Mo ₄₃ Ge ₅₇ and InO _x superconducting films: evidence for a universal minimum superfluid response. <i>Physical Review Letters</i> , 2013 , 110, 037002	7.4	30
40	Detection of electronic nematicity using scanning tunneling microscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	22
39	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. <i>Physical Review B</i> , 2012 , 86,	3.3	115

38	Defects and high bulk resistivities in the Bi-rich tetradymite topological insulator $\text{Bi}_{2+x}\text{Te}_{2-x}\text{Se}$. <i>Physical Review B</i> , 2012 , 86,	3.3	60
37	Detecting incipient stripe order in the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 153-160	1.3	2
36	Visualizing heavy fermions emerging in a quantum critical Kondo lattice. <i>Nature</i> , 2012 , 486, 201-6	50.4	141
35	Scattering from incipient stripe order in the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review B</i> , 2012 , 85,	3.3	12
34	Spatial fluctuations of helical Dirac fermions on the surface of topological insulators. <i>Nature Physics</i> , 2011 , 7, 939-943	16.2	259
33	Transmission of topological surface states through surface barriers. <i>Nature</i> , 2010 , 466, 343-6	50.4	166
32	Fluctuating stripes at the onset of the pseudogap in the high-T(c) superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Nature</i> , 2010 , 468, 677-80	50.4	187
31	Visualizing the formation of the Kondo lattice and the hidden order in URu_2Si_2 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10383-8	11.5	156
30	Nanoscale proximity effect in the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ using a scanning tunneling microscope. <i>Physical Review Letters</i> , 2010 , 104, 117001	7.4	24
29	Visualizing critical correlations near the metal-insulator transition in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. <i>Science</i> , 2010 , 327, 665-9	33.3	183
28	Mapping the wave function of transition metal acceptor states in the GaAs surface. <i>Physical Review B</i> , 2009 , 80,	3.3	26
27	Visualizing pair formation on the atomic scale and the search for the mechanism of superconductivity in high-T(c) cuprates. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 164214	1.8	23
26	Topological surface states protected from backscattering by chiral spin texture. <i>Nature</i> , 2009 , 460, 1106-9	50.4	805
25	Extending universal nodal excitations optimizes superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Science</i> , 2009 , 324, 1689-93	33.3	101
24	Electronic origin of the inhomogeneous pairing interaction in the high-Tc superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Science</i> , 2008 , 320, 196-201	33.3	169
23	Mapping of the formation of the pairing gap in. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3034-3038	3.3	5
22	Unexpected features of branched flow through high-mobility two-dimensional electron gases. <i>Nature Physics</i> , 2007 , 3, 841-845	16.2	96
21	Visualizing pair formation on the atomic scale in the high-Tc superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Nature</i> , 2007 , 447, 569-72	50.4	370

20	Atom-by-atom substitution of Mn in GaAs and visualization of their hole-mediated interactions. <i>Nature</i> , 2006 , 442, 436-9	50.4	240
19	Spatial Structure of a Single Mn Impurity State on GaAs (110) Surface. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005 , 18, 23-28		18
18	Pair density wave in the pseudogap state of high temperature superconductors. <i>Physical Review Letters</i> , 2004 , 93, 187002	7.4	134
17	Local ordering in the pseudogap state of the high-Tc superconductor Bi ₂ Sr ₂ CaCu ₂ O _(8+delta) . <i>Science</i> , 2004 , 303, 1995-8	33.3	431
16	Probing the electronic structure of nanotube peapods with the scanning tunneling microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 469-474	2.6	2
15	Mapping the one-dimensional electronic States of nanotube peapod structures. <i>Science</i> , 2002 , 295, 828-833	33.3	337
14	Atomic-scale studies of impurities in superconductors with a scanning tunneling microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, S257-S261	2.6	
13	Probing d-wave pairing correlations in the pseudogap regime of the cuprate superconductors via low-energy states near impurities. <i>Physical Review B</i> , 2001 , 64,	3.3	6
12	Andreev interferometry as a probe of superconducting phase correlations in the pseudogap regime of the cuprates. <i>Physical Review B</i> , 2000 , 62, 4105-4113	3.3	4
11	Quantum conductors in a plane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 9983-4	11.5	2
10	Impurity-Induced Bound Excitations on the Surface of Bi ₂ Sr ₂ CaCu ₂ O ₈ . <i>Physical Review Letters</i> , 1999 , 83, 176-179	7.4	151
9	Low-Energy Quasiparticle States near Extended Scatterers in d-Wave Superconductors and Their Connection with SUSY Quantum Mechanics. <i>Physical Review Letters</i> , 1999 , 83, 5571-5574	7.4	35
8	Resonant states and order-parameter suppression near pointlike impurities in d-wave superconductors. <i>Physical Review B</i> , 1999 , 60, 7517-7522	3.3	22
7	Probing the Local Effects of Magnetic Impurities on Superconductivity. <i>Science</i> , 1997 , 275, 1767-70	33.3	357
6	Off-Resonance Conduction Through Atomic Wires. <i>Science</i> , 1996 , 272, 1921-4	33.3	204
5	Observation of quantum dissipation in the vortex state of a highly disordered superconducting thin film. <i>Physical Review Letters</i> , 1996 , 76, 1529-1532	7.4	151
4	Superconducting-insulating transition in two-dimensional a-MoGe thin films. <i>Physical Review Letters</i> , 1995 , 74, 3037-3040	7.4	289
3	Competition between pinning and melting in the two-dimensional vortex lattice. <i>Physical Review B</i> , 1994 , 50, 16117-16120	3.3	9

2	Studies of two-dimensional MoGe superconductors in a magnetic field. <i>Physica B: Condensed Matter</i> , 1994 , 197, 530-539	2.8	8
1	Observation of Kosterlitz-Thouless-type melting of the disordered vortex lattice in thin films of a-MoGe. <i>Physical Review Letters</i> , 1993 , 70, 505-508	7.4	43