

Ali Yazdani

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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	Topological matter. Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , 2014 , 346, 602-7	33.3	1222
90	Topological surface states protected from backscattering by chiral spin texture. <i>Nature</i> , 2009 , 460, 1106-9	50.4	805
89	Proposal for realizing Majorana fermions in chains of magnetic atoms on a superconductor. <i>Physical Review B</i> , 2013 , 88,	3.3	438
88	Local ordering in the pseudogap state of the high-Tc superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Science</i> , 2004 , 303, 1995-8	33.3	431
87	Ubiquitous interplay between charge ordering and high-temperature superconductivity in cuprates. <i>Science</i> , 2014 , 343, 393-6	33.3	425
86	Visualizing pair formation on the atomic scale in the high-Tc superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Nature</i> , 2007 , 447, 569-72	50.4	370
85	Landau quantization and quasiparticle interference in the three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014 , 13, 851-6	27	357
84	Probing the Local Effects of Magnetic Impurities on Superconductivity. <i>Science</i> , 1997 , 275, 1767-70	33.3	357
83	Mapping the one-dimensional electronic States of nanotube peapod structures. <i>Science</i> , 2002 , 295, 828-31	33.3	337
82	Higher-Order Topology in Bismuth. <i>Nature Physics</i> , 2018 , 14, 918-924	16.2	328
81	Topological superconductivity and Majorana fermions in RKKY systems. <i>Physical Review Letters</i> , 2013 , 111, 186805	7.4	320
80	Superconducting-insulating transition in two-dimensional a-MoGe thin films. <i>Physical Review Letters</i> , 1995 , 74, 3037-3040	7.4	289
79	Spatial fluctuations of helical Dirac fermions on the surface of topological insulators. <i>Nature Physics</i> , 2011 , 7, 939-943	16.2	259
78	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
77	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019 , 572, 101-105	50.4	239
76	One-dimensional topological edge states of bismuth bilayers. <i>Nature Physics</i> , 2014 , 10, 664-669	16.2	238
75	Off-Resonance Conduction Through Atomic Wires. <i>Science</i> , 1996 , 272, 1921-4	33.3	204

74	Fluctuating stripes at the onset of the pseudogap in the high-T(c) superconductor Bi(2)Sr(2)CaCu(2)O(8+x). <i>Nature</i> , 2010 , 468, 677-80	50.4	187
73	Visualizing critical correlations near the metal-insulator transition in Ga(1-x)Mn(x)As. <i>Science</i> , 2010 , 327, 665-9	33.3	183
72	Electronic origin of the inhomogeneous pairing interaction in the high-Tc superconductor Bi2Sr2CaCu2O8+delta. <i>Science</i> , 2008 , 320, 196-201	33.3	169
71	Transmission of topological surface states through surface barriers. <i>Nature</i> , 2010 , 466, 343-6	50.4	166
70	Visualizing the formation of the Kondo lattice and the hidden order in URu(2)Si(2). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10383-8	11.5	156
69	Impurity-Induced Bound Excitations on the Surface of Bi2Sr2CaCu2O8. <i>Physical Review Letters</i> , 1999 , 83, 176-179	7.4	151
68	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
67	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
66	Visualizing nodal heavy fermion superconductivity in CeCoIn5. <i>Nature Physics</i> , 2013 , 9, 474-479	16.2	142
65	Visualizing heavy fermions emerging in a quantum critical Kondo lattice. <i>Nature</i> , 2012 , 486, 201-6	50.4	141
64	Pair density wave in the pseudogap state of high temperature superconductors. <i>Physical Review Letters</i> , 2004 , 93, 187002	7.4	134
63	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. <i>Science</i> , 2016 , 351, 1184-7	33.3	130
62	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , 2017 , 13, 286-291	16.2	123
61	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , 2017 , 358, 772-776	33.3	121
60	Cascade of electronic transitions in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020 , 582, 198-202	50.4	119
59	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. <i>Physical Review B</i> , 2012 , 86,	3.3	115
58	Extending universal nodal excitations optimizes superconductivity in Bi2Sr2CaCu2O8+delta. <i>Science</i> , 2009 , 324, 1689-93	33.3	101
57	Unexpected features of branched flow through high-mobility two-dimensional electron gases. <i>Nature Physics</i> , 2007 , 3, 841-845	16.2	96

- 56 Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. *Nature*, **2020**, 588, 610-615. 50.4 81
- 55 Sn-doped Bi_{1.1}Sb_{0.9}Te₂S bulk crystal topological insulator with excellent properties. *Nature Communications*, **2016**, 7, 11456 17.4 76
- 54 Layer-dependent quantum cooperation of electron and hole states in the anomalous semimetal WTe₂. *Nature Communications*, **2016**, 7, 10847 17.4 75
- 53 Polytypism, polymorphism, and superconductivity in TaSe_(2-x)Te_(x). *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1174-80 11.5 69
- 52 Observation of a Majorana zero mode in a topologically protected edge channel. *Science*, **2019**, 364, 1255-1259. 33.3 64
- 51 Defects and high bulk resistivities in the Bi-rich tetradymite topological insulator Bi_{2+x}Te_{2-x}Se. *Physical Review B*, **2012**, 86, 3-3 60
- 50 Observation of a nematic quantum Hall liquid on the surface of bismuth. *Science*, **2016**, 354, 316-321 33.3 54
- 49 Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. *Physical Review B*, **2016**, 93, 3-3 48
- 48 Manipulating Majorana zero modes on atomic rings with an external magnetic field. *Nature Communications*, **2016**, 7, 10395 17.4 45
- 47 Large discrete jumps observed in the transition between Chern states in a ferromagnetic topological insulator. *Science Advances*, **2016**, 2, e1600167 14.3 43
- 46 Observation of Kosterlitz-Thouless-type melting of the disordered vortex lattice in thin films of a-MoGe. *Physical Review Letters*, **1993**, 70, 505-508 7.4 43
- 45 The marvels of moiré materials. *Nature Reviews Materials*, **2021**, 6, 201-206 73.3 41
- 44 High mobility in a van der Waals layered antiferromagnetic metal. *Science Advances*, **2020**, 6, eaay6407 14.3 40
- 43 Design and performance of an ultra-high vacuum scanning tunneling microscope operating at dilution refrigerator temperatures and high magnetic fields. *Review of Scientific Instruments*, **2013**, 84, 103903 1.7 38
- 42 Low-Energy Quasiparticle States near Extended Scatterers in d-Wave Superconductors and Their Connection with SUSY Quantum Mechanics. *Physical Review Letters*, **1999**, 83, 5571-5574 7.4 35
- 41 Scanning Josephson spectroscopy on the atomic scale. *Physical Review B*, **2016**, 93, 3-3 34
- 40 Spectroscopic Imaging of Strongly Correlated Electronic States. *Annual Review of Condensed Matter Physics*, **2016**, 7, 11-33 19.7 34
- 39 Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. *Physical Review B*, **2021**, 103, 3-3 32

38	Measurements of the magnetic-field-tuned conductivity of disordered two-dimensional Mo ₄ Ge ₅ 7 and InO _x superconducting films: evidence for a universal minimum superfluid response. <i>Physical Review Letters</i> , 2013 , 110, 037002	7.4	30
37	Mapping the wave function of transition metal acceptor states in the GaAs surface. <i>Physical Review B</i> , 2009 , 80,	3.3	26
36	Nanoscale proximity effect in the high-temperature superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} using a scanning tunneling microscope. <i>Physical Review Letters</i> , 2010 , 104, 117001	7.4	24
35	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
34	Detection of electronic nematicity using scanning tunneling microscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	22
33	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
32	Majorana spin in magnetic atomic chain systems. <i>Physical Review B</i> , 2018 , 97,	3.3	21
31	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
30	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016 , 18, 105003	2.9	17
29	Evidence for unconventional superconductivity in twisted bilayer graphene. <i>Nature</i> , 2021 , 600, 240-245	50.4	16
28	Interacting multi-channel topological boundary modes in a quantum Hall valley system. <i>Nature</i> , 2019 , 566, 363-367	50.4	14
27	Scattering from incipient stripe order in the high-temperature superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} <i>Physical Review B</i> , 2012 , 85,	3.3	12
26	Imaging Anyons with Scanning Tunneling Microscopy. <i>Physical Review X</i> , 2018 , 8,	9.1	11
25	A modular ultra-high vacuum millikelvin scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2020 , 91, 023703	1.7	9
24	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
23	Competition between pinning and melting in the two-dimensional vortex lattice. <i>Physical Review B</i> , 1994 , 50, 16117-16120	3.3	9
22	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2022 , 375, 321-326	33.3	9
21	Spectroscopy of a tunable moiré system with a correlated and topological flat band. <i>Nature Communications</i> , 2021 , 12, 2732	17.4	9

20	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , 2018 , 14, 796-800	16.2	9
19	Studies of two-dimensional MoGe superconductors in a magnetic field. <i>Physica B: Condensed Matter</i> , 1994 , 197, 530-539	2.8	8
18	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
17	Evidence for a monolayer excitonic insulator. <i>Nature Physics</i> , 2022 , 18, 87-93	16.2	6
16	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
15	Mapping of the formation of the pairing gap in. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3034-3038	3.9	5
14	Detecting and distinguishing Majorana zero modes with the scanning tunnelling microscope. <i>Nature Reviews Physics</i> , 2021 , 3, 541-554	23.6	5
13	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
12	Visualizing heavy fermion confinement and Pauli-limited superconductivity in layered CeCoIn. <i>Nature Communications</i> , 2018 , 9, 549	17.4	4
11	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
10	Quasi-particle interference of heavy fermions in resonant x-ray scattering. <i>Science Advances</i> , 2016 , 2, e1601086	14.3	4
9	Catalogue of flat-band stoichiometric materials.. <i>Nature</i> , 2022 , 603, 824-828	50.4	4
8	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
7	Visualizing Majorana fermions in a chain of magnetic atoms on a superconductor. <i>Physica Scripta</i> , 2015 , T164, 014012	2.6	3
6	Magic, symmetry, and twisted matter. <i>Science</i> , 2021 , 371, 1098-1099	33.3	3
5	Detecting incipient stripe order in the high-temperature superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 153-160	1.3	2
4	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
3	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

2 Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. *Science*, **2021**, eabm3770-1

1 Atomic-scale studies of impurities in superconductors with a scanning tunneling microscope. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S257-S261 2.6