

# Ali Yazdani

## List of Publications by Year in descending order

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97  
papers

14,303  
citations

41627

51  
h-index

39744

98  
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102  
all docs

102  
docs citations

102  
times ranked

11917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2022, 375, 321-326.	6.0	55
2	Evidence for a monolayer excitonic insulator. <i>Nature Physics</i> , 2022, 18, 87-93.	6.5	70
3	Catalogue of flat-band stoichiometric materials. <i>Nature</i> , 2022, 603, 824-828.	13.7	65
4	Magic, symmetry, and twisted matter. <i>Science</i> , 2021, 371, 1098-1099.	6.0	9
5	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	23.3	262
6	Tuning interactions between spins in a superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
7	Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. <i>Physical Review B</i> , 2021, 103, .	1.1	123
8	Spectroscopy of a tunable moiré system with a correlated and topological flat band. <i>Nature Communications</i> , 2021, 12, 2732.	5.8	30
9	Detecting and distinguishing Majorana zero modes with the scanning tunnelling microscope. <i>Nature Reviews Physics</i> , 2021, 3, 541-554.	11.9	40
10	Evidence for unconventional superconductivity in twisted bilayer graphene. <i>Nature</i> , 2021, 600, 240-245.	13.7	134
11	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2021, , eabm3770.	6.0	1
12	Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020, 588, 610-615.	13.7	262
13	Cascade of electronic transitions in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020, 582, 198-202.	13.7	282
14	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.	3.3	12
15	High mobility in a van der Waals layered antiferromagnetic metal. <i>Science Advances</i> , 2020, 6, eaay6407.	4.7	85
16	A modular ultra-high vacuum millikelvin scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2020, 91, 023703.	0.6	21
17	Conjuring Majorana with synthetic magnetism. <i>Nature Materials</i> , 2019, 18, 1036-1037.	13.3	7
18	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019, 572, 101-105.	13.7	459

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19	Observation of a Majorana zero mode in a topologically protected edge channel. <i>Science</i> , 2019, 364, 1255-1259.	6.0	127
20	Interacting multi-channel topological boundary modes in a quantum Hall valley system. <i>Nature</i> , 2019, 566, 363-367.	13.7	19
21	Imaging Anyons with Scanning Tunneling Microscopy. <i>Physical Review X</i> , 2018, 8, .	2.8	23
22	Visualizing heavy fermion confinement and Pauli-limited superconductivity in layered CeCoIn5. <i>Nature Communications</i> , 2018, 9, 549.	5.8	13
23	Majorana spin in magnetic atomic chain systems. <i>Physical Review B</i> , 2018, 97, .	1.1	27
24	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , 2018, 14, 796-800.	6.5	11
25	Higher-order topology in bismuth. <i>Nature Physics</i> , 2018, 14, 918-924.	6.5	590
26	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , 2017, 358, 772-776.	6.0	191
27	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , 2017, 13, 286-291.	6.5	180
28	Sn-doped Bi <sub>1.1</sub> Sb <sub>0.9</sub> Te <sub>2</sub> S bulk crystal topological insulator with excellent properties. <i>Nature Communications</i> , 2016, 7, 11456.	5.8	94
29	Quasi-particle interference of heavy fermions in resonant x-ray scattering. <i>Science Advances</i> , 2016, 2, e1601086.	4.7	4
30	Manipulating Majorana zero modes on atomic rings with an external magnetic field. <i>Nature Communications</i> , 2016, 7, 10395.	5.8	59
31	Large discrete jumps observed in the transition between Chern states in a ferromagnetic topological insulator. <i>Science Advances</i> , 2016, 2, e1600167.	4.7	59
32	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , 2016, 93, .	1.1	54
33	Scanning Josephson spectroscopy on the atomic scale. <i>Physical Review B</i> , 2016, 93, .	1.1	44
34	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016, 18, 105003.	1.2	23
35	Layer-dependent quantum cooperation of electron and hole states in the anomalous semimetal WTe <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10847.	5.8	96
36	Observation of a nematic quantum Hall liquid on the surface of bismuth. <i>Science</i> , 2016, 354, 316-321.	6.0	72

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37	Spectroscopic Imaging of Strongly Correlated Electronic States. Annual Review of Condensed Matter Physics, 2016, 7, 11-33.	5.2	47
38	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. Science, 2016, 351, 1184-1187.	6.0	156
39	Visualizing Majorana fermions in a chain of magnetic atoms on a superconductor. Physica Scripta, 2015, T164, 014012.	1.2	7
40	Polytypism, polymorphism, and superconductivity in TaSe <sub>2</sub> Te <sub>x</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1174-80.	3.3	90
41	The Crystal and Electronic Structures of Cd <sub>3</sub> As <sub>2</sub> , the Three-Dimensional Electronic Analogue of Graphene. Inorganic Chemistry, 2014, 53, 4062-4067.	1.9	193
42	Ubiquitous Interplay Between Charge Ordering and High-Temperature Superconductivity in Cuprates. Science, 2014, 343, 393-396.	6.0	506
43	One-dimensional topological edge states of bismuth bilayers. Nature Physics, 2014, 10, 664-669.	6.5	320
44	Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. Science, 2014, 346, 602-607.	6.0	1,581
45	Landau quantization and quasiparticle interference in the three-dimensional Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . Nature Materials, 2014, 13, 851-856.	13.3	421
46	Visualizing Heavy Fermion Formation and their Unconventional Superconductivity in <i>f</i> -Electron Materials. Journal of the Physical Society of Japan, 2014, 83, 061008.	0.7	12
47	Visualizing nodal heavy fermion superconductivity in CeCoIn <sub>5</sub> . Nature Physics, 2013, 9, 474-479.	6.5	174
48	Visualizing Topological Surface States and their Novel Properties using Scanning Tunneling Microscopy and Spectroscopy. Contemporary Concepts of Condensed Matter Science, 2013, , 175-198.	0.5	4
49	Topological Superconductivity and Majorana Fermions in RKKY Systems. Physical Review Letters, 2013, 111, 186805.	2.9	416
50	Proposal for realizing Majorana fermions in chains of magnetic atoms on a superconductor. Physical Review B, 2013, 88, .	1.1	570
51	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.	0.6	43
52	Measurements of the Magnetic-Field-Tuned Conductivity of Disordered Two-Dimensional $\text{Mo}_2\text{GeInO}_x$ Superconducting Films: Evidence for a Universal Minimum Superfluid Response. Physical Review Letters, 2013, 110, 037002.	2.9	32
53	Detection of electronic nematicity using scanning tunneling microscopy. Physical Review B, 2013, 87, .	1.1	25
54	Scattering from incipient stripe order in the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{10}$ . Physical Review Letters, 2013, 110, 037002.	1.1	12

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55	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. <i>Physical Review B</i> , 2012, 86, .	1.1	133
56	Defects and high bulk resistivities in the Bi-rich tetradymite topological insulator $\text{Bi}_{2-x}\text{Te}_2$ . <i>Physical Review B</i> , 2012, 86, .	1.1	68
57	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.	0.6	2
58	Visualizing heavy fermions emerging in a quantum critical Kondo lattice. <i>Nature</i> , 2012, 486, 201-206.	13.7	176
59	Visualizing Critical Correlations Near the Metal-Insulator Transition in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ . , 2012, , 244-255.		0
60	Spatial fluctuations of helical Dirac fermions on the surface of topological insulators. <i>Nature Physics</i> , 2011, 7, 939-943.	6.5	283
61	Visualizing Critical Correlations Near the Metal-Insulator Transition in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ . <i>Science</i> , 2010, 327, 665-669.	6.0	212
62	Transmission of topological surface states through surface barriers. <i>Nature</i> , 2010, 466, 343-346.	13.7	193
63	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, 677-680.	13.7	210
64	Visualizing the formation of the Kondo lattice and the hidden order in $\text{URu}_2\text{Si}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10383-10388.	3.3	176
65	Nanoscale Proximity Effect in the High-Temperature Superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ as a Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 2010, 104, 117001.		29
66	Mapping the wave function of transition metal acceptor states in the GaAs surface. <i>Physical Review B</i> , 2009, 80, .	1.1	29
67	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.	0.7	26
68	Topological surface states protected from backscattering by chiral spin texture. <i>Nature</i> , 2009, 460, 1106-1109.	13.7	910
69	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, 1689-1693.	6.0	107
70	Mapping of the formation of the pairing gap in. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 3034-3038.	1.9	5
71	Electronic Origin of the Inhomogeneous Pairing Interaction in the High- $T_c$ Superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Science</i> , 2008, 320, 196-201.	6.0	186
72	Unexpected features of branched flow through high-mobility two-dimensional electron gases. <i>Nature Physics</i> , 2007, 3, 841-845.	6.5	115

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73	Visualizing pair formation on the atomic scale in the high-Tc superconductor Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . Nature, 2007, 447, 569-572.	13.7	414
74	Lean and mean superconductivity. Nature Physics, 2006, 2, 151-152.	6.5	6
75	Atom-by-atom substitution of Mn in GaAs and visualization of their hole-mediated interactions. Nature, 2006, 442, 436-439.	13.7	266
76	Spatial Structure of a Single Mn Impurity State on GaAs (110) Surface. Journal of Superconductivity and Novel Magnetism, 2005, 18, 23-28.	0.5	20
77	Pair Density Wave in the Pseudogap State of High Temperature Superconductors. Physical Review Letters, 2004, 93, 187002.	2.9	152
78	Local Ordering in the Pseudogap State of the High-Tc Superconductor Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . Science, 2004, 303, 1995-1998.	6.0	465
79	Probing the electronic structure of nanotube peapods with the scanning tunneling microscope. Applied Physics A: Materials Science and Processing, 2003, 76, 469-474.	1.1	4
80	Mapping the One-Dimensional Electronic States of Nanotube Peapod Structures. Science, 2002, 295, 828-831.	6.0	364
81	Atomic Scale Imaging and Spectroscopy of Fullerene Peapods. AIP Conference Proceedings, 2002, , .	0.3	0
82	Atomic-scale studies of impurities in superconductors with a scanning tunneling microscope. Applied Physics A: Materials Science and Processing, 2001, 72, S257-S261.	1.1	0
83	Watching an atom tunnel. Nature, 2001, 409, 471-472.	13.7	13
84	Probing d-wave pairing correlations in the pseudogap regime of the cuprate superconductors via low-energy states near impurities. Physical Review B, 2001, 64, .	1.1	6
85	Andreev interferometry as a probe of superconducting phase correlations in the pseudogap regime of the cuprates. Physical Review B, 2000, 62, 4105-4113.	1.1	4
86	Quantum conductors in a plane. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9983-9984.	3.3	2
87	Impurity-Induced Bound Excitations on the Surface of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> . Physical Review Letters, 1999, 83, 176-179.	2.9	163
88	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.	2.9	37
89	Resonant states and order-parameter suppression near pointlike impurities in d-wave superconductors. Physical Review B, 1999, 60, 7517-7522.	1.1	23
90	Up close and personal to atoms. Nature, 1999, 401, 227-230.	13.7	25

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91	Probing the Local Effects of Magnetic Impurities on Superconductivity. <i>Science</i> , 1997, 275, 1767-1770.	6.0	447
92	Off-Resonance Conduction Through Atomic Wires. <i>Science</i> , 1996, 272, 1921-1924.	6.0	212
93	Observation of Quantum Dissipation in the Vortex State of a Highly Disordered Superconducting Thin Film. <i>Physical Review Letters</i> , 1996, 76, 1529-1532.	2.9	178
94	Superconducting-Insulating Transition in Two-Dimensional a-MoGe Thin Films. <i>Physical Review Letters</i> , 1995, 74, 3037-3040.	2.9	331
95	Competition between pinning and melting in the two-dimensional vortex lattice. <i>Physical Review B</i> , 1994, 50, 16117-16120.	1.1	10
96	Studies of two-dimensional MoGe superconductors in a magnetic field. <i>Physica B: Condensed Matter</i> , 1994, 197, 530-539.	1.3	8
97	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.	2.9	45