

Valla Fatemi

List of Publications by Citations

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22
papers

6,955
citations

16
h-index

24
g-index

24
ext. papers

9,583
ext. citations

17
avg, IF

6.23
L-index

#	Paper	IF	Citations
22	Unconventional superconductivity in magic-angle graphene superlattices. <i>Nature</i> , 2018 , 556, 43-50	50.4	2942
21	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. <i>Nature</i> , 2018 , 556, 80-84	50.4	1771
20	Superconductor-nanowire devices from tunneling to the multichannel regime: Zero-bias oscillations and magnetoconductance crossover. <i>Physical Review B</i> , 2013 , 87,	3.3	576
19	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. <i>Science</i> , 2018 , 359, 76-79	33.3	401
18	Electrically tunable surface-to-bulk coherent coupling in topological insulator thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	261
17	Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2016 , 117, 116804	7.4	218
16	Electrically tunable low-density superconductivity in a monolayer topological insulator. <i>Science</i> , 2018 , 362, 926-929	33.3	167
15	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019 , 565, 337-342	50.4	159
14	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . <i>Nature Physics</i> , 2018 , 14, 900-906	16.2	143
13	Environmental control of single-molecule junction transport. <i>Nano Letters</i> , 2011 , 11, 1988-92	11.5	91
12	Enhanced superconductivity upon weakening of charge density wave transport in 2H-TaS ₂ in the two-dimensional limit. <i>Physical Review B</i> , 2018 , 98,	3.3	46
11	Magnetoresistance and quantum oscillations of an electrostatically tuned semimetal-to-metal transition in ultrathin WTe ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	43
10	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. <i>Physical Review Applied</i> , 2019 , 12,	4.3	33
9	Electrostatic coupling between two surfaces of a topological insulator nanodevice. <i>Physical Review Letters</i> , 2014 , 113, 206801	7.4	32
8	Deep-Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , 2020 , 32, e2000953	24	21
7	Continuous monitoring of a trapped superconducting spin. <i>Nature Physics</i> , 2020 , 16, 1103-1107	16.2	21
6	Tunneling in graphene-topological insulator hybrid devices. <i>Physical Review B</i> , 2015 , 92,	3.3	13

- 5 Coherent manipulation of an Andreev spin qubit. *Science*, **2021**, 373, 430-433 33.3 8
- 4 Weyl Josephson circuits. *Physical Review Research*, **2021**, 3, 033001 3.9 6
- 3 Spin coherent manipulation in Josephson weak links. *Physical Review Research*, **2021**, 3, 033002 3.9 2
- 2 Microwave response of an Andreev bound state. *Physical Review B*, **2021**, 104, 040501 3.3 1
- 1 Going with the grains. *Science*, **2021**, 372, 464 33.3