

# Valla Fatemi

## 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.

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	Microwave response of an Andreev bound state. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
21	Weyl Josephson circuits. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	6
20	Going with the grains. <i>Science</i> , <b>2021</b> , 372, 464	33.3	
19	Spin coherent manipulation in Josephson weak links. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
18	Coherent manipulation of an Andreev spin qubit. <i>Science</i> , <b>2021</b> , 373, 430-433	33.3	8
17	Deep-Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000953	24	21
16	Continuous monitoring of a trapped superconducting spin. <i>Nature Physics</i> , <b>2020</b> , 16, 1103-1107	16.2	21
15	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	33
14	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , <b>2019</b> , 565, 337-342	50.4	159
13	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. <i>Nature</i> , <b>2018</b> , 556, 80-84	50.4	1771
12	Unconventional superconductivity in magic-angle graphene superlattices. <i>Nature</i> , <b>2018</b> , 556, 43-50	50.4	2942
11	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. <i>Science</i> , <b>2018</b> , 359, 76-79	33.3	401
10	Enhanced superconductivity upon weakening of charge density wave transport in 2H-TaS <sub>2</sub> in the two-dimensional limit. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	46
9	Electrically tunable low-density superconductivity in a monolayer topological insulator. <i>Science</i> , <b>2018</b> , 362, 926-929	33.3	167
8	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe <sub>2</sub> . <i>Nature Physics</i> , <b>2018</b> , 14, 900-906	16.2	143
7	Magnetoresistance and quantum oscillations of an electrostatically tuned semimetal-to-metal transition in ultrathin WTe <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	43
6	Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2016</b> , 117, 116804	7.4	218

5	Tunneling in graphene-topological insulator hybrid devices. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	13
4	Electrostatic coupling between two surfaces of a topological insulator nanodevice. <i>Physical Review Letters</i> , <b>2014</b> , 113, 206801	7-4	32
3	Superconductor-nanowire devices from tunneling to the multichannel regime: Zero-bias oscillations and magnetoconductance crossover. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	576
2	Environmental control of single-molecule junction transport. <i>Nano Letters</i> , <b>2011</b> , 11, 1988-92	11-5	91
1	Electrically tunable surface-to-bulk coherent coupling in topological insulator thin films. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	261