Moshe Ben Shalom

List of Publications by Year
in descending order

30 papers	3,665 citations	279701 23 h-index	477173 29 g-index
30 all docs	30 docs citations	30 times ranked	4565 citing authors

#	Article	IF	Citations
1	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	6.0	516
2	Tuning Spin-Orbit Coupling and Superconductivity at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi> A Magnetotransport Study. Physical Review Letters, 2010, 104, 126802.	2.9	359
3	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. Nano Letters, 2015, 15, 4914-4921.	4.5	358
4	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	6.5	288
5	Interfacial ferroelectricity by van der Waals sliding. Science, 2021, 372, 1462-1466.	6.0	262
6	Measuring Hall viscosity of grapheneâ€™s electron fluid. Science, 2019, 364, 162-165.	6.0	197
7	Quantum oscillations of the critical current and high-field superconducting proximity in ballisticÂgraphene. Nature Physics, 2016, 12, 318-322.	6.5	179
8	Visualizing Poiseuille flow of hydrodynamic electrons. Nature, 2019, 576, 75-79.	13.7	170
9	Nanoscale thermal imaging of dissipation in quantum systems. Nature, 2016, 539, 407-410.	13.7	149
10	Shubnikovâ€“De Haas Oscillations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi> Physical Review Letters, 2010, 105, 206401.	2.9	141
11	Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.	5.8	136
12	Anisotropic magnetotransport at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow> Physical Review B, 2009, 80, .	3.1	131
13	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	6.0	117
14	Macroscopic self-reorientation of interacting two-dimensional crystals. Nature Communications, 2016, 7, 10800.	5.8	108
15	Micromagnetometry of two-dimensional ferromagnets. Nature Electronics, 2019, 2, 457-463.	13.1	93
16	Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.	5.8	77
17	Imaging resonant dissipation from individual atomic defects in graphene. Science, 2017, 358, 1303-1306.	6.0	66
18	Nature of Weak Magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi> Physical Review Letters, 2012, 109, 257207.	2.9	65

#	Article	IF	Citations
19	Simultaneous voltage and current density imaging of flowing electrons in two dimensions. Nature Nanotechnology, 2019, 14, 480-487.	15.6	55
20	Strong correlations elucidate the electronic structure and phase diagram of LaAlO3/SrTiO3 interface. Nature Communications, 2015, 6, 8239.	5.8	54
21	Low-temperature dependence of the thermomagnetic transport properties of the SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/LaAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> interface. Physical Review B, 2011, 84, .	1.1	26
22	Phase coherent transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 82, .	1.1	23
23	Magnetotransport effects in polar versus non-polar SrTiO3based heterostructures. Physical Review B, 2012, 86, .	1.1	23
24	Anomalous response to gate voltage application in mesoscopic LaAlO3/SrTiO3devices. Physical Review B, 2013, 87, .	1.1	20
25	Quantum Hall Response to Time-Dependent Strain Gradients in Graphene. Physical Review Letters, 2020, 124, 026602.	2.9	18
26	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	1.5	12
27	Anomalous magneto-transport at the superconducting interface between LaAlO3 and SrTiO3. Physica C: Superconductivity and Its Applications, 2010, 470, S746-S748.	0.6	11
28	Supercurrent and multiple Andreev reflections in micrometer-long ballistic graphene Josephson junctions. Nanoscale, 2018, 10, 3020-3025.	2.8	10
29	Building devices in magic-angle graphene. Nature Nanotechnology, 2021, 16, 745-746.	15.6	1
30	Publisherâ€™s Note: Low-temperature dependence of the thermomagnetic transport properties of the SrTiO3/LaAlO3interface [Phys. Rev. B84, 075423 (2011)]. Physical Review B, 2011, 84, .	1.1	0