Moshe Ben Shalom

List of Publications by Year
in descending order

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30 papers	3,665 citations	279798 23 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	4565 citing authors

#	Article	IF	Citations
1	Building devices in magic-angle graphene. Nature Nanotechnology, 2021, 16, 745-746.	31.5	1
2	Interfacial ferroelectricity by van der Waals sliding. Science, 2021, 372, 1462-1466.	12.6	262
3	Quantum Hall Response to Time-Dependent Strain Gradients in Graphene. Physical Review Letters, 2020, 124, 026602.	7.8	18
4	Measuring Hall viscosity of grapheneâ€™s electron fluid. Science, 2019, 364, 162-165.	12.6	197
5	Simultaneous voltage and current density imaging of flowing electrons in two dimensions. Nature Nanotechnology, 2019, 14, 480-487.	31.5	55
6	Visualizing Poiseuille flow of hydrodynamic electrons. Nature, 2019, 576, 75-79.	27.8	170
7	Micromagnetometry of two-dimensional ferromagnets. Nature Electronics, 2019, 2, 457-463.	26.0	93
8	Supercurrent and multiple Andreev reflections in micrometer-long ballistic graphene Josephson junctions. Nanoscale, 2018, 10, 3020-3025.	5.6	10
9	Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.	12.8	136
10	Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.	12.8	77
11	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	3.3	12
12	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	16.7	288
13	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	12.6	117
14	Imaging resonant dissipation from individual atomic defects in graphene. Science, 2017, 358, 1303-1306.	12.6	66
15	Nanoscale thermal imaging of dissipation in quantum systems. Nature, 2016, 539, 407-410.	27.8	149
16	Macroscopic self-reorientation of interacting two-dimensional crystals. Nature Communications, 2016, 7, 10800.	12.8	108
17	Quantum oscillations of the critical current and high-field superconducting proximity in ballisticÂgraphene. Nature Physics, 2016, 12, 318-322.	16.7	179
18	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	12.6	516

#	Article	IF	Citations
19	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. Nano Letters, 2015, 15, 4914-4921.	9.1	358
20	Strong correlations elucidate the electronic structure and phase diagram of LaAlO3/SrTiO3 interface. Nature Communications, 2015, 6, 8239.	12.8	54
21	Anomalous response to gate voltage application in mesoscopic LaAlO3/SrTiO3devices. Physical Review B, 2013, 87, .	3.2	20
22	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: Physical Review Letters, 2012, 109, 257207.	7.8	66
23	Magnetotransport effects in polar versus non-polar SrTiO3based heterostructures. Physical Review B, 2012, 86, .	3.2	23
24	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, .	3.2	26
25	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, .	3.2	0
26	Anomalous magneto-transport at the superconducting interface between LaAlO3 and SrTiO3. Physica C: Superconductivity and Its Applications, 2010, 470, S746-S748.	1.2	11
27	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, .	3.2	23
28	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: Physical Review Letters, 2010, 105, 206401.	7.8	141
29	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: A Magnetotransport Study. Physical Review Letters, 2010, 104, 126802.	7.8	359
30	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></mml:math>/ Physical Review B, 2009, 80, .	3.2	131