

# Moshe Ben Shalom

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/373649/publications.pdf>

Version: 2024-02-01

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	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	12.6	516
2	Tuning Spin-Orbit Coupling and Superconductivity at the $\text{SrTiO}_3$ A Magnetotransport Study. Physical Review Letters, 2010, 104, 126802.	7.8	359
3	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. Nano Letters, 2015, 15, 4914-4921.	9.1	358
4	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	16.7	288
5	Interfacial ferroelectricity by van der Waals sliding. Science, 2021, 372, 1462-1466.	12.6	262
6	Measuring Hall viscosity of graphene's electron fluid. Science, 2019, 364, 162-165.	12.6	197
7	Quantum oscillations of the critical current and high-field superconducting proximity in ballistic graphene. Nature Physics, 2016, 12, 318-322.	16.7	179
8	Visualizing Poiseuille flow of hydrodynamic electrons. Nature, 2019, 576, 75-79.	27.8	170
9	Nanoscale thermal imaging of dissipation in quantum systems. Nature, 2016, 539, 407-410.	27.8	149
10	Shubnikov-De Haas Oscillations in $\text{SrTiO}_3$ Physical Review Letters, 2010, 105, 206401.	27.8	149
11	Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.	12.8	136
12	Anisotropic magnetotransport at the $\text{SrTiO}_3$ Physical Review B, 2009, 80, .	3.2	113
13	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	12.6	117
14	Macroscopic self-reorientation of interacting two-dimensional crystals. Nature Communications, 2016, 7, 10800.	12.8	108
15	Micromagnetometry of two-dimensional ferromagnets. Nature Electronics, 2019, 2, 457-463.	26.0	93
16	Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.	12.8	77
17	Imaging resonant dissipation from individual atomic defects in graphene. Science, 2017, 358, 1303-1306.	12.6	66
18	Nature of Weak Magnetism in $\text{SrTiO}_3$ Physical Review Letters, 2012, 109, 257207.	27.8	149

#	ARTICLE	IF	CITATIONS
19	Simultaneous voltage and current density imaging of flowing electrons in two dimensions. Nature Nanotechnology, 2019, 14, 480-487.	31.5	55
20	Strong correlations elucidate the electronic structure and phase diagram of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Nature Communications, 2015, 6, 8239.	12.8	54
21	Low-temperature dependence of the thermomagnetic transport properties of the SrTiO <sub>3</sub> /LaAlO <sub>3</sub> interface. Physical Review B, 2011, 84, .	3.2	26
22	Phase coherent transport in SrTiO <sub>3</sub> /LaAlO <sub>3</sub> interface. Physical Review B, 2010, 82, .	3.2	23
23	Magnetotransport effects in polar versus non-polar SrTiO <sub>3</sub> based heterostructures. Physical Review B, 2012, 86, .	3.2	23
24	Anomalous response to gate voltage application in mesoscopic LaAlO <sub>3</sub> /SrTiO <sub>3</sub> devices. Physical Review B, 2013, 87, .	3.2	20
25	Quantum Hall Response to Time-Dependent Strain Gradients in Graphene. Physical Review Letters, 2020, 124, 026602.	7.8	18
26	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	3.3	12
27	Anomalous magneto-transport at the superconducting interface between LaAlO <sub>3</sub> and SrTiO <sub>3</sub> . Physica C: Superconductivity and Its Applications, 2010, 470, S746-S748.	1.2	11
28	Supercurrent and multiple Andreev reflections in micrometer-long ballistic graphene Josephson junctions. Nanoscale, 2018, 10, 3020-3025.	5.6	10
29	Building devices in magic-angle graphene. Nature Nanotechnology, 2021, 16, 745-746.	31.5	1
30	Publisher's Note: Low-temperature dependence of the thermomagnetic transport properties of the SrTiO <sub>3</sub> /LaAlO <sub>3</sub> interface [Phys. Rev. B84, 075423 (2011)]. Physical Review B, 2011, 84, .	3.2	0