Roshan Krishna Kumar

List of Publications by Year
in descending order

21 papers	2,737 citations	516215 16 h-index	676716 22 g-index
23 all docs	23 docs citations	23 times ranked	3805 citing authors

#	Article	IF	Citations
1	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	6.0	34
2	Nano-imaging photoresponse in a moirÃ© unit cell of minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1640.	5.8	29
3	Magnetization Signature of Topological Surface States in a Nonâ€Symmorphic Superconductor. Advanced Materials, 2021, 33, e2103257.	11.1	3
4	Grapheneâ€™s non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. Nature Communications, 2021, 12, 6392.	5.8	5
5	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. Nature Communications, 2020, 11, 5756.	5.8	25
6	Control of electron-electron interaction in graphene by proximity screening. Nature Communications, 2020, 11, 2339.	5.8	46
7	Minibands in twisted bilayer graphene probed by magnetic focusing. Science Advances, 2020, 6, eaay7838.	4.7	21
8	Strong magnetophonon oscillations in extra-large graphene. Nature Communications, 2019, 10, 3334.	5.8	25
9	Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. Physical Review B, 2019, 100, .	1.1	16
10	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. Nature Communications, 2019, 10, 4008.	5.8	67
11	Measuring Hall viscosity of grapheneâ€™s electron fluid. Science, 2019, 364, 162-165.	6.0	197
12	Excess resistivity in graphene superlattices caused by umklapp electronâ€“electron scattering. Nature Physics, 2019, 15, 32-36.	6.5	46
13	High-order fractal states in graphene superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5135-5139.	3.3	63
14	Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.	5.8	136
15	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	6.5	288
16	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	6.0	117
17	Graphene Triangular Ballistic Rectifier: Fabrication and Characterisation. Journal of Electronic Materials, 2017, 46, 3942-3948.	1.0	16
18	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. Nature Nanotechnology, 2017, 12, 223-227.	15.6	996

#	Article	IF	Citations
19	Graphene ballistic nano-rectifier with very high responsivity. Nature Communications, 2016, 7, 11670.	5.8	74
20	Scaling approach to tight-binding transport in realistic graphene devices: The case of transverse magnetic focusing. Physical Review B, 2016, 94, .	1.1	15
21	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	6.0	516