

Roshan Krishna Kumar

List of Publications by Citations

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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.

21
papers

1,731
citations

14
h-index

23
g-index

23
ext. papers

2,317
ext. citations

18.1
avg, IF

4.28
L-index

#	Paper	IF	Citations
21	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. <i>Nature Nanotechnology</i> , 2017 , 12, 223-227	28.7	723
20	Negative local resistance caused by viscous electron backflow in graphene. <i>Science</i> , 2016 , 351, 1055-8	33.3	344
19	Superballistic flow of viscous electron fluid through graphene constrictions. <i>Nature Physics</i> , 2017 , 13, 1182-1185	16.2	172
18	Measuring Hall viscosity of graphene's electron fluid. <i>Science</i> , 2019 , 364, 162-165	33.3	97
17	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. <i>Science</i> , 2017 , 357, 181-184	33.3	83
16	Fluidity onset in graphene. <i>Nature Communications</i> , 2018 , 9, 4533	17.4	70
15	Graphene ballistic nano-rectifier with very high responsivity. <i>Nature Communications</i> , 2016 , 7, 11670	17.4	47
14	High-order fractal states in graphene superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5135-5139	11.5	37
13	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , 2019 , 10, 4008	17.4	36
12	Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. <i>Nature Physics</i> , 2019 , 15, 32-36	16.2	25
11	Control of electron-electron interaction in graphene by proximity screenings. <i>Nature Communications</i> , 2020 , 11, 2339	17.4	17
10	Strong magnetophonon oscillations in extra-large graphene. <i>Nature Communications</i> , 2019 , 10, 3334	17.4	14
9	Graphene Triangular Ballistic Rectifier: Fabrication and Characterisation. <i>Journal of Electronic Materials</i> , 2017 , 46, 3942-3948	1.9	14
8	Scaling approach to tight-binding transport in realistic graphene devices: The case of transverse magnetic focusing. <i>Physical Review B</i> , 2016 , 94,	3.3	14
7	Nano-imaging photoresponse in a moiré unit cell of minimally twisted bilayer graphene. <i>Nature Communications</i> , 2021 , 12, 1640	17.4	11
6	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. <i>Nature Communications</i> , 2020 , 11, 5756	17.4	10
5	Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	8

- 4 Minibands in twisted bilayer graphene probed by magnetic focusing. *Science Advances*, **2020**, 6, eaay78384.3 8
- 3 Out-of-equilibrium criticalities in graphene superlattices.. *Science*, **2022**, 375, 430-433 33.3 1
- 2 Graphene's non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. *Nature Communications*, **2021**, 12, 6392 17.4 0
- 1 Magnetization Signature of Topological Surface States in a Non-Symmorphic Superconductor. *Advanced Materials*, **2021**, 33, e2103257 24