

# Roshan Krishna Kumar

## List of Publications by Year in Descending Order

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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	Out-of-equilibrium criticalities in graphene superlattices.. <i>Science</i> , <b>2022</b> , 375, 430-433	33.3	1
20	Graphene's non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. <i>Nature Communications</i> , <b>2021</b> , 12, 6392	17.4	0
19	Nano-imaging photoresponse in a moiré unit cell of minimally twisted bilayer graphene. <i>Nature Communications</i> , <b>2021</b> , 12, 1640	17.4	11
18	Magnetization Signature of Topological Surface States in a Non-Symmorphic Superconductor. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103257	24	
17	Control of electron-electron interaction in graphene by proximity screenings. <i>Nature Communications</i> , <b>2020</b> , 11, 2339	17.4	17
16	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. <i>Nature Communications</i> , <b>2020</b> , 11, 5756	17.4	10
15	Minibands in twisted bilayer graphene probed by magnetic focusing. <i>Science Advances</i> , <b>2020</b> , 6, eaay7838	14.3	8
14	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 4008	17.4	36
13	Measuring Hall viscosity of graphene's electron fluid. <i>Science</i> , <b>2019</b> , 364, 162-165	33.3	97
12	Strong magnetophonon oscillations in extra-large graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 3334	17.4	14
11	Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
10	Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. <i>Nature Physics</i> , <b>2019</b> , 15, 32-36	16.2	25
9	High-order fractal states in graphene superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5135-5139	11.5	37
8	Fluidity onset in graphene. <i>Nature Communications</i> , <b>2018</b> , 9, 4533	17.4	70
7	Superballistic flow of viscous electron fluid through graphene constrictions. <i>Nature Physics</i> , <b>2017</b> , 13, 1182-1185	16.2	172
6	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. <i>Science</i> , <b>2017</b> , 357, 181-184	33.3	83
5	Graphene Triangular Ballistic Rectifier: Fabrication and Characterisation. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 3942-3948	1.9	14

4	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 223-227	28.7	723
3	Negative local resistance caused by viscous electron backflow in graphene. <i>Science</i> , <b>2016</b> , 351, 1055-8	33.3	344
2	Graphene ballistic nano-rectifier with very high responsivity. <i>Nature Communications</i> , <b>2016</b> , 7, 11670	17.4	47
1	Scaling approach to tight-binding transport in realistic graphene devices: The case of transverse magnetic focusing. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14