

Mark Greenaway

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.

39 papers	1,533 citations	15 h-index	39 g-index
46 ext. papers	1,878 ext. citations	8.2 avg, IF	4.06 L-index

#	Paper	IF	Citations
39	Resonant tunnelling and negative differential conductance in graphene transistors. <i>Nature Communications</i> , 2013 , 4, 1794	17.4	451
38	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 808-13	28.7	341
37	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr ₃ . <i>Nature Electronics</i> , 2018 , 1, 344-349	28.4	167
36	Phonon-Assisted Resonant Tunneling of Electrons in Graphene-Boron Nitride Transistors. <i>Physical Review Letters</i> , 2016 , 116, 186603	7.4	63
35	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. <i>Science</i> , 2016 , 353, 575-9	33.3	63
34	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. <i>Nature Physics</i> , 2015 , 11, 1057-1062	16.2	49
33	Graphene-hexagonal boron nitride resonant tunneling diodes as high-frequency oscillators. <i>Applied Physics Letters</i> , 2015 , 107, 103105	3.4	48
32	Controlling and enhancing terahertz collective electron dynamics in superlattices by chaos-assisted miniband transport. <i>Physical Review B</i> , 2009 , 80,	3.3	47
31	Subterahertz chaos generation by coupling a superlattice to a linear resonator. <i>Physical Review Letters</i> , 2014 , 112, 116603	7.4	38
30	Effect of temperature on resonant electron transport through stochastic conduction channels in superlattices. <i>Physical Review B</i> , 2011 , 84,	3.3	32
29	Controlling high-frequency collective electron dynamics via single-particle complexity. <i>Physical Review Letters</i> , 2012 , 109, 024102	7.4	25
28	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. <i>Communications Physics</i> , 2018 , 1,	5.4	25
27	Lyapunov stability of charge transport in miniband semiconductor superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	19
26	Emergence and control of complex behaviors in driven systems of interacting qubits with dissipation. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	19
25	Universal mobility characteristics of graphene originating from charge scattering by ionised impurities. <i>Communications Physics</i> , 2021 , 4,	5.4	16
24	Magnetic-field-induced miniband conduction in semiconductor superlattices. <i>Physical Review B</i> , 2007 , 76,	3.3	15
23	Strong magnetophonon oscillations in extra-large graphene. <i>Nature Communications</i> , 2019 , 10, 3334	17.4	14

22	Resonant tunnelling into the two-dimensional subbands of InSe layers. <i>Communications Physics</i> , 2020 , 3,	5.4	13
21	Inter-Flake Quantum Transport of Electrons and Holes in Inkjet-Printed Graphene Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2007478	15.6	13
20	The effect of temperature on the nonlinear dynamics of charge in a semiconductor superlattice in the presence of a magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 114, 836-840	1	12
19	Using acoustic waves to induce high-frequency current oscillations in superlattices. <i>Physical Review B</i> , 2010 , 81,	3.3	12
18	Semiconductor charge transport driven by a picosecond strain pulse. <i>Applied Physics Letters</i> , 2008 , 92, 232104	3.4	11
17	Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	8
16	Sub-terahertz amplification in a semiconductor superlattice with moving charge domains. <i>Applied Physics Letters</i> , 2015 , 106, 043503	3.4	8
15	Microwave Generation in Synchronized Semiconductor Superlattices. <i>Physical Review Applied</i> , 2017 , 7,	4.3	5
14	Enhancing optoelectronic properties of SiC-grown graphene by a surface layer of colloidal quantum dots. <i>2D Materials</i> , 2017 , 4, 031001	5.9	4
13	Resonant control of cold-atom transport through two optical lattices with a constant relative speed. <i>Physical Review A</i> , 2013 , 87,	2.6	3
12	Using sound to generate ultra-high-frequency electron dynamics in superlattices. <i>Microelectronics Journal</i> , 2009 , 40, 725-727	1.8	3
11	Studying transitions between different regimes of current oscillations generated in a semiconductor superlattice in the presence of a tilted magnetic field at various temperatures. <i>Technical Physics Letters</i> , 2015 , 41, 768-770	0.7	2
10	Effects of classical stochastic webs on the quantum dynamics of cold atomic gases in a moving optical lattice. <i>Physical Review A</i> , 2017 , 96,	2.6	2
9	Prospects for strongly coupled atom-photon quantum nodes. <i>Scientific Reports</i> , 2019 , 9, 7798	4.9	1
8	Effect of interminiband tunneling on the generation of current in a semiconducting superlattice. <i>Technical Physics</i> , 2015 , 60, 541-545	0.5	1
7	An enriched RWG basis for enforcing global current conservation in EM modelling of capacitance extraction 2017 ,		1
6	Out-of-equilibrium criticalities in graphene superlattices.. <i>Science</i> , 2022 , 375, 430-433	33.3	1
5	Controlling Charge Domain Dynamics in Superlattices111-136		1

4	Graphene's non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. <i>Nature Communications</i> , 2021 , 12, 6392	17.4	o
3	Nondestructive Picosecond Ultrasonic Probing of Intralayer and van der Waals Interlayer Bonding in In_2Se_3 . <i>Advanced Functional Materials</i> , 2106206	15.6	o
2	Effects of Dissipation and Noise on Chaotic Transport in Superlattices. <i>Acta Physica Polonica A</i> , 2009 , 116, 733-740	0.6	
1	Using Stochastic Webs to Control the Quantum Transport of Electrons in Semiconductor Superlattices. <i>Nonlinear Physical Science</i> , 2010 , 225-254	0.1	