Mark Greenaway

List of Publications by Year
in descending order

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44 papers	2,141 citations	394421 19 h-index	302126 39 g-index
46 all docs	46 docs citations	46 times ranked	3069 citing authors

#	Article	IF	Citations
1	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	12.6	34
2	A Fast Converging Resonance-Free Global Multi-Trace Method for Scattering by Partially Coated Composite Structures. IEEE Transactions on Antennas and Propagation, 2022, 70, 9534-9543.	5.1	6
3	Modeling of Resonant Tunneling Diode Oscillators Based on the Time-Domain Boundary Element Method. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2022, 7, 161-167.	2.2	2
4	Interâ€Flake Quantum Transport of Electrons and Holes in Inkjetâ€Printed Graphene Devices. Advanced Functional Materials, 2021, 31, 2007478.	14.9	25
5	Emergence and control of complex behaviors in driven systems of interacting qubits with dissipation. Npj Quantum Information, 2021, 7, .	6.7	92
6	Universal mobility characteristics of graphene originating from charge scattering by ionised impurities. Communications Physics, 2021, 4, .	5.3	65
7	Nondestructive Picosecond Ultrasonic Probing of Intralayer and van der Waals Interlayer Bonding in Î±â€• and Î²â€²In₂Se₃. Advanced Functional Materials, 2021, 31, 2106206.	14.9	11
8	Grapheneâ€™s non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. Nature Communications, 2021, 12, 6392.	12.8	5
9	Ultrafast Strain-Induced Charge Transport in Semiconductor Superlattices. Physical Review Applied, 2020, 14, .	3.8	1
10	Chaos and hyperchaos in the chain of quantum coherent elements. , 2020, , .		0
11	Resonant tunnelling into the two-dimensional subbands of InSe layers. Communications Physics, 2020, 3, .	5.3	22
12	Strong magnetophonon oscillations in extra-large graphene. Nature Communications, 2019, 10, 3334.	12.8	25
13	Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. Physical Review B, 2019, 100, .	3.2	16
14	Prospects for strongly coupled atom-photon quantum nodes. Scientific Reports, 2019, 9, 7798.	3.3	1
15	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. Communications Physics, 2018, 1, .	5.3	33
16	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr3. Nature Electronics, 2018, 1, 344-349.	26.0	239
17	Enhancing optoelectronic properties of SiC-grown graphene by a surface layer of colloidal quantum dots. 2D Materials, 2017, 4, 031001.	4.4	5
18	Microwave Generation in Synchronized Semiconductor Superlattices. Physical Review Applied, 2017, 7, .	3.8	12

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19	Effects of classical stochastic webs on the quantum dynamics of cold atomic gases in a moving optical lattice. Physical Review A, 2017, 96, .	2.5	2
20	An enriched RWG basis for enforcing global current conservation in EM modelling of capacitance extraction. , 2017, , .		2
21	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. Science, 2016, 353, 575-579.	12.6	88
22	Phonon-Assisted Resonant Tunneling of Electrons in Grapheneâ€“Boron Nitride Transistors. Physical Review Letters, 2016, 116, 186603.	7.8	78
23	Sub-terahertz amplification in a semiconductor superlattice with moving charge domains. Applied Physics Letters, 2015, 106, 043503.	3.3	13
24	Sub-THz/THz amplification in a semiconductor superlattice. , 2015, , .		0
25	Effect of interminiband tunneling on the generation of current in a semiconducting superlattice. Technical Physics, 2015, 60, 541-545.	0.7	1
26	Studying transitions between different regimes of current oscillations generated in a semiconductor superlattice in the presence of a tilted magnetic field at various temperatures. Technical Physics Letters, 2015, 41, 768-770.	0.7	2
27	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. Nature Physics, 2015, 11, 1057-1062.	16.7	64
28	Graphene-hexagonal boron nitride resonant tunneling diodes as high-frequency oscillators. Applied Physics Letters, 2015, 107, .	3.3	58
29	III-V semiconductor waveguides for photonic functionality at 780 nm. , 2014, , .		1
30	Subterahertz Chaos Generation by Coupling a Superlattice to a Linear Resonator. Physical Review Letters, 2014, 112, 116603.	7.8	48
31	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. Nature Nanotechnology, 2014, 9, 808-813.	31.5	435
32	Resonant tunnelling and negative differential conductance in graphene transistors. Nature Communications, 2013, 4, 1794.	12.8	542
33	Lyapunov stability of charge transport in miniband semiconductor superlattices. Physical Review B, 2013, 88, .	3.2	25
34	Resonant control of cold-atom transport through two optical lattices with a constant relative speed. Physical Review A, 2013, 87, .	2.5	5
35	Controlling High-Frequency Collective Electron Dynamics via Single-Particle Complexity. Physical Review Letters, 2012, 109, 024102.	7.8	29
36	The effect of temperature on the nonlinear dynamics of charge in a semiconductor superlattice in the presence of a magnetic field. Journal of Experimental and Theoretical Physics, 2012, 114, 836-840.	0.9	15

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37	Effect of temperature on resonant electron transport through stochastic conduction channels in superlattices. Physical Review B, 2011, 84, .	3.2	35
38	Using acoustic waves to induce high-frequency current oscillations in superlattices. Physical Review B, 2010, 81, .	3.2	17
39	Using Stochastic Webs to Control the Quantum Transport of Electrons in Semiconductor Superlattices. Nonlinear Physical Science, 2010, , 225-254.	0.2	0
40	Controlling and enhancing terahertz collective electron dynamics in superlattices by chaos-assisted miniband transport. Physical Review B, 2009, 80, .	3.2	52
41	Using sound to generate ultra-high-frequency electron dynamics in superlattices. Microelectronics Journal, 2009, 40, 725-727.	2.0	4
42	Effects of Dissipation and Noise on Chaotic Transport in Superlattices. Acta Physica Polonica A, 2009, 116, 733-740.	0.5	1
43	Semiconductor charge transport driven by a picosecond strain pulse. Applied Physics Letters, 2008, 92, 232104.	3.3	14
44	Magnetic-field-induced miniband conduction in semiconductor superlattices. Physical Review B, 2007, 76, .	3.2	15