

# Andre Geim

## List of Publications by Year in descending order

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Version: 2024-02-01

315  
papers

285,938  
citations

498

132  
h-index

240

312  
g-index

331  
all docs

331  
docs citations

331  
times ranked

120861  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Out-of-equilibrium criticalities in graphene superlattices. <i>Science</i> , 2022, 375, 430-433.   | 6.0  | 34        |
| 2  | Reply to: Random interstratification in hydrated graphene oxide membranes and implications for seawater desalination. <i>Nature Nanotechnology</i> , 2022, 17, 134-135.                        | 15.6 | 5         |
| 3  | 2D Functional Minerals as Sustainable Materials for Magneto-Optics. <i>Advanced Materials</i> , 2022, 34, e2110464.  | 11.1 | 26        |
| 4  | Interfacial ferroelectricity in marginally twisted 2D semiconductors. <i>Nature Nanotechnology</i> , 2022, 17, 390-395.  | 15.6 | 115       |
| 5  | 2D Functional Minerals as Sustainable Materials for Magneto-Optics ( <i>Adv. Mater.</i> 16/2022). <i>Advanced Materials</i> , 2022, 34, .  | 11.1 | 7         |
| 6  | Gas permeation through graphdiyne-based nanoporous membranes. <i>Nature Communications</i> , 2022, 13, .   | 5.8  | 15        |
| 7  | Tunnel field-effect transistors for sensitive terahertz detection. <i>Nature Communications</i> , 2021, 12, 543.   | 5.8  | 52        |
| 8  | Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021, 33, e2007682.  | 11.1 | 22        |
| 9  | Tunable van Hove singularities and correlated states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 619-626.   | 6.5  | 103       |
| 10 | Long-range nontopological edge currents in charge-neutral graphene. <i>Nature</i> , 2021, 593, 528-534.  | 13.7 | 44        |
| 11 | Water friction in nanofluidic channels made from two-dimensional crystals. <i>Nature Communications</i> , 2021, 12, 3092.  | 5.8  | 59        |
| 12 | Out-of-Plane Dielectric Susceptibility of Graphene in Twistrionic and Bernal Bilayers. <i>Nano Letters</i> , 2021, 21, 6678-6683.  | 4.5  | 24        |
| 13 | Exploring Two-Dimensional Empty Space. <i>Nano Letters</i> , 2021, 21, 6356-6358.  | 4.5  | 31        |
| 14 | Magnetization Signature of Topological Surface States in a Non-Symmorphic Superconductor. <i>Advanced Materials</i> , 2021, 33, e2103257.  | 11.1 | 3         |
| 15 | Tunable spin-orbit coupling in two-dimensional InSe. <i>Physical Review B</i> , 2021, 104, .   | 1.1  | 9         |
| 16 | Charge-polarized interfacial superlattices in marginally twisted hexagonal boron nitride. <i>Nature Communications</i> , 2021, 12, 347.  | 5.8  | 132       |
| 17 | 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. | 5.8  | 5         |
| 18 | Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.   | 5.8  | 29        |

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|----|--|------|-----------|
| 19 | Electron Tunneling through Boron Nitride Confirms Marcus's Hush Theory Predictions for Ultramicroelectrodes. ACS Nano, 2020, 14, 993-1002. | 7.3  | 16        |
| 20 | Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. Nature Communications, 2020, 11, 5756.                     | 5.8  | 25        |
| 21 | In situ manipulation of van der Waals heterostructures for twistrionics. Science Advances, 2020, 6, .                                      | 4.7  | 69        |
| 22 | Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. Nano Letters, 2020, 20, 8634-8639.    | 4.5  | 42        |
| 23 | Giant magneto-birefringence effect and tuneable colouration of 2D crystal suspensions. Nature Communications, 2020, 11, 3725.              | 5.8  | 28        |
| 24 | Evidence of flat bands and correlated states in buckled graphene superlattices. Nature, 2020, 584, 215-220.                                | 13.7 | 118       |
| 25 | Electronic phase separation in multilayer rhombohedral graphite. Nature, 2020, 584, 210-214.   | 13.7 | 81        |
| 26 | Capillary condensation under atomic-scale confinement. Nature, 2020, 588, 250-253.   | 13.7 | 168       |
| 27 | Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. ACS Nano, 2020, 14, 7280-7286.                                 | 7.3  | 55        |
| 28 | Control of electron-electron interaction in graphene by proximity screening. Nature Communications, 2020, 11, 2339.                        | 5.8  | 46        |
| 29 | Viscous electron fluids. Physics Today, 2020, 73, 28-34.   | 0.3  | 62        |
| 30 | Limits on gas impermeability of graphene. Nature, 2020, 579, 229-232.  | 13.7 | 220       |
| 31 | Indirect Excitons and Trions in MoSe <sub>2</sub> /WSe <sub>2</sub> van der Waals Heterostructures. Nano Letters, 2020, 20, 1869-1875.     | 4.5  | 63        |
| 32 | Minibands in twisted bilayer graphene probed by magnetic focusing. Science Advances, 2020, 6, eaay7838.                                    | 4.7  | 21        |
| 33 | Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. Nano Letters, 2019, 19, 6475-6481.               | 4.5  | 32        |
| 34 | Colossal infrared and terahertz magneto-optical activity in a two-dimensional Dirac material. Nature Nanotechnology, 2019, 14, 756-761.    | 15.6 | 27        |
| 35 | Strong magnetophonon oscillations in extra-large graphene. Nature Communications, 2019, 10, 3334.  | 5.8  | 25        |
| 36 | Stacking Order in Graphite Films Controlled by van der Waals Technology. Nano Letters, 2019, 19, 8526-8532.                                | 4.5  | 54        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | With regret, we must leave. <i>New Scientist</i> , 2019, 243, 23.  | 0.0  | 0         |
| 38 | Magnetophonon spectroscopy of Dirac fermion scattering by transverse and longitudinal acoustic phonons in graphene. <i>Physical Review B</i> , 2019, 100, .      | 1.1  | 16        |
| 39 | Atomically thin micas as proton-conducting membranes. <i>Nature Nanotechnology</i> , 2019, 14, 962-966.  | 15.6 | 45        |
| 40 | Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , 2019, 10, 4008.              | 5.8  | 67        |
| 41 | Perfect proton selectivity in ion transport through two-dimensional crystals. <i>Nature Communications</i> , 2019, 10, 4243.                                     | 5.8  | 60        |
| 42 | Strained Bubbles in van der Waals Heterostructures as Local Emitters of Photoluminescence with Adjustable Wavelength. <i>ACS Photonics</i> , 2019, 6, 516-524.   | 3.2  | 110       |
| 43 | Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. <i>Nature Communications</i> , 2019, 10, 2335.    | 5.8  | 51        |
| 44 | Molecular streaming and its voltage control in Ångström-scale channels. <i>Nature</i> , 2019, 567, 87-90.  | 13.7 | 170       |
| 45 | Measuring Hall viscosity of graphene's electron fluid. <i>Science</i> , 2019, 364, 162-165.  | 6.0  | 197       |
| 46 | Simultaneous voltage and current density imaging of flowing electrons in two dimensions. <i>Nature Nanotechnology</i> , 2019, 14, 480-487.                       | 15.6 | 55        |
| 47 | Dimensional reduction, quantum Hall effect and layer parity in graphite films. <i>Nature Physics</i> , 2019, 15, 437-442.  | 6.5  | 39        |
| 48 | Visualizing Poiseuille flow of hydrodynamic electrons. <i>Nature</i> , 2019, 576, 75-79.   | 13.7 | 170       |
| 49 | Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019, 5, eaay8897.   | 4.7  | 74        |
| 50 | Imaging work and dissipation in the quantum Hall state in graphene. <i>Nature</i> , 2019, 575, 628-633.  | 13.7 | 50        |
| 51 | Micromagnetometry of two-dimensional ferromagnets. <i>Nature Electronics</i> , 2019, 2, 457-463.   | 13.1 | 93        |
| 52 | Failure of Conductance Quantization in Two-Dimensional Topological Insulators due to Nonmagnetic Impurities. <i>Physical Review Letters</i> , 2019, 122, 016601. | 2.9  | 57        |
| 53 | Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019, 363, 145-148.                                    | 6.0  | 207       |
| 54 | Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. <i>Nature Communications</i> , 2019, 10, 230.                     | 5.8  | 43        |

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|----|---|------|-----------|
| 55 | Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. Nature Physics, 2019, 15, 32-36.                               | 6.5  | 46        |
| 56 | Localized Bright Luminescence of Indirect Excitons and Trions in a Type II Van der Waals Heterostructure. , 2019, , .                                       |      | 0         |
| 57 | Giant photoeffect in proton transport through graphene membranes. Nature Nanotechnology, 2018, 13, 300-303.   | 15.6 | 59        |
| 58 | Supercurrent and multiple Andreev reflections in micrometer-long ballistic graphene Josephson junctions. Nanoscale, 2018, 10, 3020-3025.                    | 2.8  | 10        |
| 59 | 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        |
| 60 | Large tunable valley splitting in edge-free graphene quantum dots on boron nitride. Nature Nanotechnology, 2018, 13, 392-397.                               | 15.6 | 58        |
| 61 | Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. Nature Nanotechnology, 2018, 13, 468-472.                              | 15.6 | 45        |
| 62 | Unusual Suppression of the Superconducting Energy Gap and Critical Temperature in Atomically Thin NbSe <sub>2</sub> . Nano Letters, 2018, 18, 2623-2629.    | 4.5  | 70        |
| 63 | Resonant terahertz detection using graphene plasmons. Nature Communications, 2018, 9, 5392.   | 5.8  | 198       |
| 64 | Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. Communications Physics, 2018, 1, .   | 2.0  | 33        |
| 65 | Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.   | 5.8  | 136       |
| 66 | Indirect excitons in van der Waals heterostructures at room temperature. Nature Communications, 2018, 9, 1895.  | 5.8  | 130       |
| 67 | Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. Nano Letters, 2018, 18, 3950-3955.   | 4.5  | 40        |
| 68 | Electrically controlled water permeation through graphene oxide membranes. Nature, 2018, 559, 236-240.  | 13.7 | 263       |
| 69 | Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr <sub>3</sub> . Nature Electronics, 2018, 1, 344-349.                             | 13.1 | 239       |
| 70 | Anomalously low dielectric constant of confined water. Science, 2018, 360, 1339-1342.   | 6.0  | 627       |
| 71 | Ballistic molecular transport through two-dimensional channels. Nature, 2018, 558, 420-424.   | 13.7 | 139       |
| 72 | Indirect excitons in van der Waals heterostructures at room temperature. , 2018, , .  |      | 0         |

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|----|---|------|-----------|
| 73 | Unraveling the 3D Atomic Structure of a Suspended Graphene/hBN van der Waals Heterostructure. Nano Letters, 2017, 17, 1409-1416.  | 4.5  | 84        |
| 74 | Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe <sub>2</sub> Light-Emitting van der Waals Heterostructure. Nano Letters, 2017, 17, 1425-1430.             | 4.5  | 41        |
| 75 | Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.  | 5.8  | 77        |
| 76 | Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .  | 1.5  | 12        |
| 77 | Intercalant-independent transition temperature in superconducting black phosphorus. Nature Communications, 2017, 8, 15036.  | 5.8  | 82        |
| 78 | Scalable and efficient separation of hydrogen isotopes using graphene-based electrochemical pumping. Nature Communications, 2017, 8, 15215.   | 5.8  | 119       |
| 79 | Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. 2D Materials, 2017, 4, 031004.             | 2.0  | 73        |
| 80 | Tunable sieving of ions using graphene oxide membranes. Nature Nanotechnology, 2017, 12, 546-550.   | 15.6 | 1,364     |
| 81 | Size effect in ion transport through angstrom-scale slits. Science, 2017, 358, 511-513.   | 6.0  | 418       |
| 82 | Of flying frogs and levitrons. , 2017, , 615-621.   |      | 1         |
| 83 | Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.  | 6.5  | 288       |
| 84 | Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1714-1715. | 0.2  | 0         |
| 85 | High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.  | 6.0  | 117       |
| 86 | Imaging resonant dissipation from individual atomic defects in graphene. Science, 2017, 358, 1303-1306.   | 6.0  | 66        |
| 87 | Ultrathin graphene-based membrane with precise molecular sieving and ultrafast solvent permeation. Nature Materials, 2017, 16, 1198-1202.   | 13.3 | 549       |
| 88 | When lost in a multiverse. Nature Physics, 2017, 13, 1142-1142.   | 6.5  | 2         |
| 89 | High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. Nature Nanotechnology, 2017, 12, 223-227.                                       | 15.6 | 996       |
| 90 | Control of excitons in multi-layer van der Waals heterostructures. Applied Physics Letters, 2016, 108, .  | 1.5  | 56        |

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|-----|---|------|-----------|
| 91  | Raman spectroscopy of highly pressurized graphene membranes. <i>Applied Physics Letters</i> , 2016, 108, .  | 1.5  | 39        |
| 92  | Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.   | 13.7 | 483       |
| 93  | Scaling approach to tight-binding transport in realistic graphene devices: The case of transverse magnetic focusing. <i>Physical Review B</i> , 2016, 94, . | 1.1  | 15        |
| 94  | Electron hydrodynamics dilemma: Whirlpools or no whirlpools. <i>Physical Review B</i> , 2016, 94, .   | 1.1  | 86        |
| 95  | Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. <i>Science</i> , 2016, 353, 575-579.                       | 6.0  | 88        |
| 96  | Magnetotransport in single-layer graphene in a large parallel magnetic field. <i>Physical Review B</i> , 2016, 94, .  | 1.1  | 11        |
| 97  | Electrostatically Confined Monolayer Graphene Quantum Dots with Orbital and Valley Splittings. <i>Nano Letters</i> , 2016, 16, 5798-5805.                   | 4.5  | 93        |
| 98  | Phonon-Assisted Resonant Tunneling of Electrons in Grapheneâ€“Boron Nitride Transistors. <i>Physical Review Letters</i> , 2016, 116, 186603.                | 2.9  | 78        |
| 99  | Nanoscale thermal imaging of dissipation in quantum systems. <i>Nature</i> , 2016, 539, 407-410.  | 13.7 | 149       |
| 100 | Macroscopic self-reorientation of interacting two-dimensional crystals. <i>Nature Communications</i> , 2016, 7, 10800.                                      | 5.8  | 108       |
| 101 | Van der Waals pressure and its effect on trapped interlayer molecules. <i>Nature Communications</i> , 2016, 7, 12168.                                       | 5.8  | 137       |
| 102 | Highly Flexible and Conductive Printed Graphene for Wireless Wearable Communications Applications. <i>Scientific Reports</i> , 2016, 5, 18298.              | 1.6  | 158       |
| 103 | Universal shape and pressure inside bubbles appearing in van der Waals heterostructures. <i>Nature Communications</i> , 2016, 7, 12587.                     | 5.8  | 260       |
| 104 | Superconductivity in Ca-doped graphene laminates. <i>Scientific Reports</i> , 2016, 6, 23254.   | 1.6  | 109       |
| 105 | Electrically pumped single-defect light emitters in WSe <sub>2</sub> . <i>2D Materials</i> , 2016, 3, 025038.   | 2.0  | 66        |
| 106 | High thermal conductivity of hexagonal boron nitride laminates. <i>2D Materials</i> , 2016, 3, 011004.  | 2.0  | 66        |
| 107 | Quantum oscillations of the critical current and high-field superconducting proximity in ballisticâ€“graphene. <i>Nature Physics</i> , 2016, 12, 318-322.   | 6.5  | 179       |
| 108 | Commensurability Effects in Viscosity of Nanoconfined Water. <i>ACS Nano</i> , 2016, 10, 3685-3692.   | 7.3  | 198       |

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|-----|---|------|-----------|
| 109 | Negative local resistance caused by viscous electron backflow in graphene. <i>Science</i> , 2016, 351, 1055-1058.   | 6.0  | 516       |
| 110 | Sieving hydrogen isotopes through two-dimensional crystals. <i>Science</i> , 2016, 351, 68-70.  | 6.0  | 247       |
| 111 | Control of excitons in multi-layer van der Waals heterostructures. , 2016, , .  |      | 0         |
| 112 | Cross sectional STEM imaging and analysis of multilayered two dimensional crystal heterostructure devices. <i>Microscopy and Microanalysis</i> , 2015, 21, 107-108. | 0.2  | 1         |
| 113 | Nonlocal transport and the hydrodynamic shear viscosity in graphene. <i>Physical Review B</i> , 2015, 92, .   | 1.1  | 198       |
| 114 | Lifting of the Landau level degeneracy in graphene devices in a tilted magnetic field. <i>Physical Review B</i> , 2015, 92, .                                       | 1.1  | 16        |
| 115 | WSe <sub>2</sub> Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , 2015, 15, 8223-8228.                      | 4.5  | 231       |
| 116 | Wang et al. reply. <i>Nature</i> , 2015, 528, E3-E3.  | 13.7 | 13        |
| 117 | Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , 2015, 14, 301-306.                                 | 13.3 | 1,397     |
| 118 | Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , 2015, 15, 4914-4921.            | 4.5  | 358       |
| 119 | Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. <i>Physical Review Letters</i> , 2015, 114, 126804.  | 2.9  | 52        |
| 120 | Binder-free highly conductive graphene laminate for low cost printed radio frequency applications. <i>Applied Physics Letters</i> , 2015, 106, .                    | 1.5  | 170       |
| 121 | Square ice in graphene nanocapillaries. <i>Nature</i> , 2015, 519, 443-445.   | 13.7 | 602       |
| 122 | Nonlocal Response and Anamorphosis: The Case of Few-Layer Black Phosphorus. <i>Nano Letters</i> , 2015, 15, 6991-6995.  | 4.5  | 42        |
| 123 | Extremely large magnetoresistance in few-layer graphene/boron nitride heterostructures. <i>Nature Communications</i> , 2015, 6, 8337.                               | 5.8  | 86        |
| 124 | Resonant tunnelling between the chiral Landau states of twisted graphene lattices. <i>Nature Physics</i> , 2015, 11, 1057-1062.                                     | 6.5  | 64        |
| 125 | Graphene-hexagonal boron nitride resonant tunneling diodes as high-frequency oscillators. <i>Applied Physics Letters</i> , 2015, 107, .                             | 1.5  | 58        |
| 126 | Atomic-Scale Legos. <i>Scientific American</i> , 2014, 311, 50-51.  | 1.0  | 2         |



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|-----|---|------|-----------|
| 127 | Proton transport through one-atom-thick crystals. <i>Nature</i> , 2014, 516, 227-230.   | 13.7 | 668       |
| 128 | Precise and Ultrafast Molecular Sieving Through Graphene Oxide Membranes. <i>Science</i> , 2014, 343, 752-754.                                    | 6.0  | 2,060     |
| 129 | Commensurate–incommensurate transition in graphene on hexagonal boron nitride. <i>Nature Physics</i> , 2014, 10, 451-456.                         | 6.5  | 737       |
| 130 | Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2014, 14, 3270-3276.         | 4.5  | 433       |
| 131 | Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. <i>Nature Nanotechnology</i> , 2014, 9, 808-813.        | 15.6 | 435       |
| 132 | Detecting topological currents in graphene superlattices. <i>Science</i> , 2014, 346, 448-451.  | 6.0  | 619       |
| 133 | Stacking Boundaries and Transport in Bilayer Graphene. <i>Nano Letters</i> , 2014, 14, 2052-2057.   | 4.5  | 66        |
| 134 | Atomically resolved imaging of highly ordered alternating fluorinated graphene. <i>Nature Communications</i> , 2014, 5, 4902.                     | 5.8  | 42        |
| 135 | Impermeable barrier films and protective coatings based on reduced graphene oxide. <i>Nature Communications</i> , 2014, 5, 4843.                  | 5.8  | 508       |
| 136 | Heterostructures Produced from Nanosheet-Based Inks. <i>Nano Letters</i> , 2014, 14, 3987-3992.   | 4.5  | 165       |
| 137 | Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. <i>Nature Physics</i> , 2014, 10, 525-529.      | 6.5  | 161       |
| 138 | Graphene-protected copper and silver plasmonics. <i>Scientific Reports</i> , 2014, 4, 5517.   | 1.6  | 217       |
| 139 | Van der Waals heterostructures. <i>Nature</i> , 2013, 499, 419-425.   | 13.7 | 8,378     |
| 140 | Raman Fingerprint of Aligned Graphene/h-BN Superlattices. <i>Nano Letters</i> , 2013, 13, 5242-5246.  | 4.5  | 102       |
| 141 | Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. <i>Physical Review B</i> , 2013, 88, . | 1.1  | 88        |
| 142 | Effect of dielectric response on the quantum capacitance of graphene in a strong magnetic field. <i>Physical Review B</i> , 2013, 88, .           | 1.1  | 26        |
| 143 | Generic miniband structure of graphene on a hexagonal substrate. <i>Physical Review B</i> , 2013, 87, .   | 1.1  | 259       |
| 144 | Giant Magnetodrag in Graphene at Charge Neutrality. <i>Physical Review Letters</i> , 2013, 111, 166601.   | 2.9  | 69        |

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|-----|--|------|-----------|
| 145 | Singular phase nano-optics in plasmonic metamaterials for label-free single-molecule detection. Nature Materials, 2013, 12, 304-309.                                       | 13.3 | 382       |
| 146 | Vertical field-effect transistor based on grapheneâ€“WS2 heterostructures for flexible and transparent electronics. Nature Nanotechnology, 2013, 8, 100-103.               | 15.6 | 1,543     |
| 147 | Interaction phenomena in graphene seen through quantum capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3282-3286. | 3.3  | 239       |
| 148 | Resonant tunnelling and negative differential conductance in graphene transistors. Nature Communications, 2013, 4, 1794.   | 5.8  | 542       |
| 149 | Strong Light-Matter Interactions in Heterostructures of Atomically Thin Films. Science, 2013, 340, 1311-1314.  | 6.0  | 2,179     |
| 150 | Dual origin of defect magnetism in graphene and its reversible switching by molecular doping. Nature Communications, 2013, 4, 2010.  | 5.8  | 230       |
| 151 | Cloning of Dirac fermions in graphene superlattices. Nature, 2013, 497, 594-597.   | 13.7 | 1,107     |
| 152 | Ultrafast non-thermal electron dynamics in single layer graphene. , 2013, , .  |      | 0         |
| 153 | Field-effect control of tunneling barrier height by exploiting graphene's low density of states. Journal of Applied Physics, 2013, 113, .                                  | 1.1  | 35        |
| 154 | Revealing common artifacts due to ferromagnetic inclusions in highly oriented pyrolytic graphite. Europhysics Letters, 2012, 97, 47001.                                    | 0.7  | 58        |
| 155 | Circular dichroism of magnetophonon resonance in doped graphene. Physical Review B, 2012, 86, .  | 1.1  | 21        |
| 156 | Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. Nature Materials, 2012, 11, 764-767.              | 13.3 | 796       |
| 157 | How Close Can One Approach the Dirac Point in Graphene Experimentally?. Nano Letters, 2012, 12, 4629-4634.   | 4.5  | 159       |
| 158 | Strong Coulomb drag and broken symmetry in double-layer graphene. Nature Physics, 2012, 8, 896-901.  | 6.5  | 365       |
| 159 | Reply to the Comment by D. Spemann et al.. Europhysics Letters, 2012, 98, 57007.   | 0.7  | 9         |
| 160 | Field-Effect Tunneling Transistor Based on Vertical Graphene Heterostructures. Science, 2012, 335, 947-950.  | 6.0  | 2,268     |
| 161 | Unimpeded Permeation of Water Through Helium-Leakâ€“Tight Graphene-Based Membranes. Science, 2012, 335, 442-444.   | 6.0  | 2,552     |
| 162 | Raman Spectroscopy of Graphene and Bilayer under Biaxial Strain: Bubbles and Balloons. Nano Letters, 2012, 12, 617-621.  | 4.5  | 431       |

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|-----|---|------|-----------|
| 163 | Spin-half paramagnetism in graphene induced by point defects. <i>Nature Physics</i> , 2012, 8, 199-202.   | 6.5  | 743       |
| 164 | Electron Tunneling through Ultrathin Boron Nitride Crystalline Barriers. <i>Nano Letters</i> , 2012, 12, 1707-1710.   | 4.5  | 724       |
| 165 | Graphene prehistory. <i>Physica Scripta</i> , 2012, T146, 014003.   | 1.2  | 107       |
| 166 | Interaction-Driven Spectrum Reconstruction in Bilayer Graphene. <i>Science</i> , 2011, 333, 860-863.  | 6.0  | 262       |
| 167 | RANDOM WALK TO GRAPHENE. <i>International Journal of Modern Physics B</i> , 2011, 25, 4055-4080.  | 1.0  | 14        |
| 168 | Single-Layer Behavior and Its Breakdown in Twisted Graphene Layers. <i>Physical Review Letters</i> , 2011, 106, 126802.                                     | 2.9  | 547       |
| 169 | Development of a universal stress sensor for graphene and carbon fibres. <i>Nature Communications</i> , 2011, 2, .  | 5.8  | 172       |
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