Antonio H. Castro Neto

List of Publications by Year
in descending order

354 papers	78,993 citations	1531 109 h-index	475 277 g-index
367 all docs	367 docs citations	367 times ranked	54620 citing authors

#	Article	IF	Citations
1	Ultracold Atomic Gases: Novel States of Matter. , 2022, , 527-559.		0
2	Microscopic theory of ionic motion in solids. Physical Review B, 2022, 105, .	1.1	5
3	Two-dimensional adaptive membranes with programmable water and ionic channels. Nature Nanotechnology, 2021, 16, 174-180.	15.6	86
4	Printable two-dimensional superconducting monolayers. Nature Materials, 2021, 20, 181-187.	13.3	102
5	Accelerated Synthesis of Graphene Oxide from Graphene. Nanomaterials, 2021, 11, 551.	1.9	48
6	2D Electrolytes: Theory, Modeling, Synthesis, and Characterization. Advanced Materials, 2021, 33, 2100442.	11.1	9
7	Electrically Controlled Thermal Radiation from Reduced Graphene Oxide Membranes. ACS Applied Materials & Interfaces, 2021, 13, 27278-27283.	4.0	12
8	Computational methods for 2D materials modelling. Reports on Progress in Physics, 2021, 84, 106501.	8.1	4
9	Stability of a Rolled-Up Conformation State for Two-Dimensional Materials in Aqueous Solutions. Physical Review Letters, 2021, 127, 156101.	2.9	9
10	Unravelling strong electronic interlayer and intralayer correlations in a transition metal dichalcogenide. Nature Communications, 2021, 12, 6980.	5.8	9
11	Inhibiting Corrosion of Biomedical-Grade Ti-6Al-4V Alloys with Graphene Nanocoating. Journal of Dental Research, 2020, 99, 285-292.	2.5	32
12	Collective excitations in 2D materials. Nature Reviews Physics, 2020, 2, 524-537.	11.9	37
13	Large enhancement of thermoelectric performance in MoS ₂ / <i>h</i> -BN heterostructure due to vacancy-induced band hybridization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13929-13936.	3.3	34
14	Correlated states of a triangular net of coupled quantum wires: Implications for the phase diagram of marginally twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	12
15	Giant gate-tunable bandgap renormalization and excitonic effects in a 2D semiconductor. Science Advances, 2019, 5, eaaw2347.	4.7	80
16	Hidden anisotropy in the Drude conductivity of charge carriers with Dirac-SchrÃ¶dinger dynamics. Physical Review B, 2019, 100, .	1.1	3
17	Polychromic carbon black: Laser galvanized multicolour fluorescence display. Nano Research, 2019, 12, 733-740.	5.8	6
18	Hydrophobicity of graphene as a driving force for inhibiting biofilm formation of pathogenic bacteria and fungi. Dental Materials, 2019, 35, 403-413.	1.6	49

#	ARTICLE	IF	CITATIONS
19	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. Nano Letters, 2019, 19, 4126-4133.	4.5	22
20	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. Advanced Materials, 2019, 31, e1901185.	11.1	129
21	Discommensuration-driven superconductivity in the charge density wave phases of transition-metal dichalcogenides. Physical Review B, 2019, 99, .	1.1	21
22	Black phosphorus and its isoelectronic materials. Nature Reviews Physics, 2019, 1, 306-317.	11.9	196
23	Dual phases of crystalline and electronic structures in the nanocrystalline perovskite CsPbBr3. NPG Asia Materials, 2019, 11, .	3.8	41
24	Polyelectrolyteâ€"Graphene Oxide Multilayer Composites for Array of Microchambers which are Mechanically Robust and Responsive to NIR Light. Macromolecular Rapid Communications, 2019, 40, e1700868.	2.0	21
25	Accessing valley degree of freedom in bulk Tin(II) sulfide at room temperature. Nature Communications, 2018, 9, 1455.	5.8	56
26	Graphene onto medical grade titanium: an atom-thick multimodal coating that promotes osteoblast maturation and inhibits biofilm formation from distinct species. Nanotoxicology, 2018, 12, 274-289.	1.6	52
27	Molecular-Beam Epitaxy of Two-Dimensional In₂Se₃ and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. Nano Letters, 2018, 18, 6340-6346.	4.5	163
28	The Worldwide Graphene Flake Production. Advanced Materials, 2018, 30, e1803784.	11.1	260
29	Strain-induced gauge and Rashba fields in ferroelectric Rashba lead chalcogenide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:m monolayers (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 337 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML">	[illegible]	22
30	Tailoring sample-wide pseudo-magnetic fields on a grapheneâ€"black phosphorus heterostructure. Nature Nanotechnology, 2018, 13, 828-834.	15.6	113
31	Two-dimensional multibit optoelectronic memory with broadband spectrum distinction. Nature Communications, 2018, 9, 2966.	5.8	211
32	Molecular Beam Epitaxy of Highly Crystalline MoSe₂ on Hexagonal Boron Nitride. ACS Nano, 2018, 12, 7562-7570.	7.3	70
33	Laser assisted blending of Ag nanoparticles in an alumina veil: a highly fluorescent hybrid. Nanoscale, 2018, 10, 18145-18152.	2.8	4
34	Localized magnetic states in two-dimensional semiconductors. Physical Review B, 2018, 97, .	1.1	3
35	Oxygen induced strong mobility modulation in few-layer black phosphorus. 2D Materials, 2017, 4, 021007.	2.0	45
36	Gate-Tunable Giant Stark Effect in Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 1970-1977.	4.5	144

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37	Graphene transfer to 3-dimensional surfaces: a vacuum-assisted dry transfer method. 2D Materials, 2017, 4, 025060.	2.0	33
38	Two-dimensional square buckled Rashba lead chalcogenides. Physical Review B, 2017, 96, .	1.1	29
39	Rashba-like dispersion in buckled square lattices. Physical Review B, 2017, 96, .	1.1	6
40	Resolving the Spatial Structures of Bound Hole States in Black Phosphorus. Nano Letters, 2017, 17, 6935-6940.	4.5	33
41	Defects and oxidation resilience in InSe. Physical Review B, 2017, 96, .	1.1	44
42	Oxygen impact on the electronic and vibrational properties of black phosphorus probed by synchrotron infrared nanospectroscopy. 2D Materials, 2017, 4, 035028.	2.0	16
43	Quantized Transport, Strain-Induced Perfectly Conducting Modes, and Valley Filtering on Shape-Optimized Graphene Corbino Devices. Nano Letters, 2017, 17, 5304-5313.	4.5	32
44	Oxygen Passivation Mediated Tunability of Trion and Excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></r Physical Review Letters, 2017, 119, 077402.	2.9	55
45	Excitonic mass gap in uniaxially strained graphene. Physical Review B, 2017, 95, .	1.1	17
46	Phosphorene: Enhanced Photoresponse from Phosphoreneâ€"Phosphoreneâ€Suboxide Junction Fashioned by Focused Laser Micromachining (Adv. Mater. 21/2016). Advanced Materials, 2016, 28, 4164-4164.	11.1	4
47	Enhanced Photoresponse from Phosphoreneâ€"Phosphoreneâ€Suboxide Junction Fashioned by Focused Laser Micromachining. Advanced Materials, 2016, 28, 4090-4096.	11.1	38
48	Magnetic effects in sulfur-decorated graphene. Scientific Reports, 2016, 6, 21460.	1.6	11
49	Generalized spectral method for near-field optical microscopy. Journal of Applied Physics, 2016, 119, .	1.1	51
50	Hybrid Bilayer WSe₂â€"CH₃NH₃PbI₃ Organolead Halide Perovskite as a Highâ€Performance Photodetector. Angewandte Chemie - International Edition, 2016, 55, 11945-11949.	7.2	91
51	Vacancies and oxidation of two-dimensional group-IV monochalcogenides. Physical Review B, 2016, 94, .	1.1	77
52	2D materials and van der Waals heterostructures. Science, 2016, 353, aac9439.	6.0	4,958
53	Tuning charge and correlation effects for a single molecule on a graphene device. Nature Communications, 2016, 7, 13553.	5.8	82
54	Hyperbolic phonon polaritons in hexagonal boron nitride (Conference Presentation)., 2016, , .		0

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55	Quantum Transport and Observation of Dyakonov-Perel Spin-Orbit Scattering in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review Letters, 2016, 116, 046803.	2.9	59
56	Multiferroic Two-Dimensional Materials. Physical Review Letters, 2016, 116, 206803.	2.9	187
57	Valley physics in tin (II) sulfide. Physical Review B, 2016, 93, .	1.1	101
58	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	5.8	120
59	Resonantly Increased Optical Frequency Conversion in Atomically Thin Black Phosphorus. Advanced Materials, 2016, 28, 10693-10700.	11.1	64
60	Phosphorene: from theory to applications. Nature Reviews Materials, 2016, 1, .	23.3	815
61	Strongly bound Mott-Wannier excitons in GeS and GeSe monolayers. Physical Review B, 2016, 94, .	1.1	76
62	Evidence for Fast Interlayer Energy Transfer in MoSe₂/WS₂ Heterostructures. Nano Letters, 2016, 16, 4087-4093.	4.5	205
63	Graphene oxide-based substrate: physical and surface characterization, cytocompatibility and differentiation potential of dental pulp stem cells. Dental Materials, 2016, 32, 1019-1025.	1.6	96
64	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. Nature Photonics, 2016, 10, 244-247.	15.6	312
65	Electron Doping of Ultrathin Black Phosphorus with Cu Adatoms. Nano Letters, 2016, 16, 2145-2151.	4.5	196
66	Controlling many-body states by the electric-field effect in a two-dimensional material. Nature, 2016, 529, 185-189.	13.7	385
67	Edge phonons in black phosphorus. Nature Communications, 2016, 7, 12191.	5.8	70
68	Collective modes in anisotropic double-layer systems. Physical Review B, 2015, 91, .	1.1	26
69	Atomically thin dilute magnetism in Co-doped phosphorene. Physical Review B, 2015, 91, .	1.1	130
70	Enhanced piezoelectricity and modified dielectric screening of two-dimensional group-IV monochalcogenides. Physical Review B, 2015, 92, .	1.1	179
71	Graphene: A Versatile Carbon-Based Material for Bone Tissue Engineering. Stem Cells International, 2015, 2015, 1-12.	1.2	177
72	Two and three-dimensional graphene substrates to magnify osteogenic differentiation of periodontal ligament stem cells. Carbon, 2015, 93, 266-275.	5.4	83

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73	Anomalous Spectral Features of a Neutral Bilayer Graphene. Scientific Reports, 2015, 5, 10025.	1.6	9
74	Phosphorene oxides: Bandgap engineering of phosphorene by oxidation. Physical Review B, 2015, 91, .	1.1	181
75	Oxygen Defects in Phosphorene. Physical Review Letters, 2015, 114, 046801.	2.9	511
76	Surface transfer doping induced effective modulation on ambipolar characteristics of few-layer black phosphorus. Nature Communications, 2015, 6, 6485.	5.8	335
77	Tunneling Plasmonics in Bilayer Graphene. Nano Letters, 2015, 15, 4973-4978.	4.5	64
78	Colossal Ultraviolet Photoresponsivity of Few-Layer Black Phosphorus. ACS Nano, 2015, 9, 8070-8077.	7.3	204
79	Tuning and Persistent Switching of Graphene Plasmons on a Ferroelectric Substrate. Nano Letters, 2015, 15, 4859-4864.	4.5	29
80	Revealing the Atomic Site-Dependent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>g</mml:mi></mml:mrow></mml:math>Factor within a Single Magnetic Molecule via the Extended Kondo Effect. Physical Review Letters, 2015, 114, 126601.	2.9	26
81	Creating a Stable Oxide at the Surface of Black Phosphorus. ACS Applied Materials & Interfaces, 2015, 7, 14557-14562.	4.0	318
82	Atomic Healing of Defects in Transition Metal Dichalcogenides. Nano Letters, 2015, 15, 3524-3532.	4.5	194
83	Unusual Angular Dependence of the Raman Response in Black Phosphorus. ACS Nano, 2015, 9, 4270-4276.	7.3	301
84	Air-Stable Transport in Graphene-Contacted, Fully Encapsulated Ultrathin Black Phosphorus-Based Field-Effect Transistors. ACS Nano, 2015, 9, 4138-4145.	7.3	455
85	Large Frequency Change with Thickness in Interlayer Breathing Modeâ€"Significant Interlayer Interactions in Few Layer Black Phosphorus. Nano Letters, 2015, 15, 3931-3938.	4.5	100
86	Transport properties of pristine few-layer black phosphorus by van der Waals passivation in an inert atmosphere. Nature Communications, 2015, 6, 6647.	5.8	460
87	Polymer-Enriched 3D Graphene Foams for Biomedical Applications. ACS Applied Materials & Interfaces, 2015, 7, 8275-8283.	4.0	73
88	Extremely large magnetoresistance in few-layer graphene/boronâ€"nitride heterostructures. Nature Communications, 2015, 6, 8337.	5.8	86
89	Plasmons in graphene moirÃ© superlattices. Nature Materials, 2015, 14, 1217-1222.	13.3	141
90	Phosphorene: Overcoming the Oxidation Barrier. ACS Central Science, 2015, 1, 289-291.	5.3	19

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91	Tunable room-temperature ferromagnet using an iron-oxide and graphene oxide nanocomposite. Scientific Reports, 2015, 5, 11430.	1.6	11
92	Optical conductivity renormalization of graphene on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>due to resonant excitonic effects mediated by Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:m	1.1	20
93	Exciton binding energies and luminescence of phosphorene under pressure. Physical Review B, 2015, 91, .	1.1	48
94	Bandgap Engineering of Phosphorene by Laser Oxidation toward Functional 2D Materials. ACS Nano, 2015, 9, 10411-10421.	7.3	126
95	Direct dry transfer of chemical vapor deposition graphene to polymeric substrates. Carbon, 2015, 83, 224-231.	5.4	82
96	van der Waals Force: A Dominant Factor for Reactivity of Graphene. Nano Letters, 2015, 15, 319-325.	4.5	65
97	Orbital symmetry fingerprints for magnetic adatoms in graphene. New Journal of Physics, 2014, 16, 013045.	1.2	14
98	Phosphorene nanoribbons. Europhysics Letters, 2014, 108, 47005.	0.7	134
99	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. Physical Review B, 2014, 90, .	1.1	31
100	Donor and acceptor levels in semiconducting transition-metal dichalcogenides. Physical Review B, 2014, 89, .	1.1	38
101	Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601.	2.9	105
102	Nanometer Thick Elastic Graphene Engine. Nano Letters, 2014, 14, 2677-2680.	4.5	34
103	Electric field effect in ultrathin black phosphorus. Applied Physics Letters, 2014, 104, .	1.5	1,137
104	Electronic transport in graphene-based heterostructures. Applied Physics Letters, 2014, 104, .	1.5	61
105	Face-to-face transfer of wafer-scale graphene films. Nature, 2014, 505, 190-194.	13.7	386
106	Ultrafast and Nanoscale Plasmonic Phenomena in Exfoliated Graphene Revealed by Infrared Pumpâ€"Probe Nanoscopy. Nano Letters, 2014, 14, 894-900.	4.5	158
107	Scattering theory of spin-orbit active adatoms on graphene. Physical Review B, 2014, 90, .	1.1	48
108	Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748.	5.8	179

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109	Excitons in anisotropic two-dimensional semiconducting crystals. Physical Review B, 2014, 90, .	1.1	136
110	Photocarrier relaxation pathway in two-dimensional semiconducting transition metal dichalcogenides. Nature Communications, 2014, 5, 4543.	5.8	372
111	Tunable optical properties of multilayer black phosphorus thin films. Physical Review B, 2014, 90, .	1.1	592
112	Strain-Induced Gap Modification in Black Phosphorus. Physical Review Letters, 2014, 112, 176801.	2.9	1,303
113	van der Waals forces and electron-electron interactions in two strained graphene layers. Physical Review B, 2014, 89, .	1.1	14
114	Lattice Relaxation at the Interface of Two-Dimensional Crystals: Graphene and Hexagonal Boron-Nitride. Nano Letters, 2014, 14, 5133-5139.	4.5	89
115	Spinâ€“orbit proximity effect in graphene. Nature Communications, 2014, 5, 4875.	5.8	431
116	Pseudomagnetic fields in graphene nanobubbles of constrained geometry: A molecular dynamics study. Physical Review B, 2014, 90, .	1.1	52
117	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. Science, 2014, 343, 1125-1129.	6.0	957
118	Transport Properties of Monolayer MoS₂ Grown by Chemical Vapor Deposition. Nano Letters, 2014, 14, 1909-1913.	4.5	431
119	Infrared Pump-Probe Imaging and Spectroscopy with 10nm Resolution. , 2014, , .		0
120	Observation of intra- and inter-band transitions in the transient optical response of graphene. New Journal of Physics, 2013, 15, 015009.	1.2	87
121	Step Flow Versus Mosaic Film Growth in Hexagonal Boron Nitride. Journal of the American Chemical Society, 2013, 135, 2368-2373.	6.6	89
122	Terahertz Conductivity of Twisted Bilayer Graphene. Physical Review Letters, 2013, 110, 067401.	2.9	73
123	Electronic and plasmonic phenomena at graphene grain boundaries. Nature Nanotechnology, 2013, 8, 821-825.	15.6	226
124	Origin of Indirect Optical Transitions in Few-Layer MoS₂, WS₂, and WSe₂. Nano Letters, 2013, 13, 5627-5634.	4.5	435
125	Orderâ€“disorder transition in a two-dimensional boronâ€“carbonâ€“nitride alloy. Nature Communications, 2013, 4, 2681.	5.8	138
126	Band nesting and the optical response of two-dimensional semiconducting transition metal dichalcogenides. Physical Review B, 2013, 88, .	1.1	261

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127	Excitonic collapse in semiconducting transition-metal dichalcogenides. Physical Review B, 2013, 88, .	1.1	24
128	Spin-polarized electronic current induced by sublattice engineering of graphene sheets with boron/nitrogen. Physical Review B, 2013, 87, .	1.1	24
129	Colossal enhancement of spinâ€“orbit coupling in weakly hydrogenated graphene. Nature Physics, 2013, 9, 284-287.	6.5	384
130	An innovative way of etching MoS2: Characterization and mechanistic investigation. Nano Research, 2013, 6, 200-207.	5.8	140
131	Strong Light-Matter Interactions in Heterostructures of Atomically Thin Films. Science, 2013, 340, 1311-1314.	6.0	2,179
132	Dual origin of defect magnetism in graphene and its reversible switching by molecular doping. Nature Communications, 2013, 4, 2010.	5.8	230
133	Topological Insulating States in Laterally Patterned Ordinary Semiconductors. Physical Review Letters, 2013, 110, 186601.	2.9	39
134	Thermodynamics of a Potts-like model for a reconstructed zigzag edge in graphene nanoribbons. Physical Review B, 2013, 87, .	1.1	3
135	Resonant Tunneling in Graphene Pseudomagnetic Quantum Dots. Nano Letters, 2013, 13, 2692-2697.	4.5	49
136	Origami-based spintronics in graphene. Europhysics Letters, 2013, 104, 47001.	0.7	23
137	dâ€“f hybridization and quantum criticality in weakly-itinerant ferromagnets. Journal of Physics Condensed Matter, 2013, 25, 025601.	0.7	6
138	Effective contact model for geometry-independent conductance calculations in graphene. Physical Review B, 2013, 88, .	1.1	7
139	Effect of uniaxial strain on ferromagnetic instability and formation of localized magnetic states on adatoms in graphene. Physical Review B, 2013, 87, .	1.1	21
140	Reversible Single Spin Control of Individual Magnetic Molecule by Hydrogen Atom Adsorption. Scientific Reports, 2013, 3, 1210.	1.6	115
141	Field-effect control of tunneling barrier height by exploiting graphene's low density of states. Journal of Applied Physics, 2013, 113, .	1.1	35
142	Ultracold Atomic Gases: Novel States of Matter. , 2013, , 1-38.		0
143	Near-field spectroscopy of silicon dioxide thin films. Physical Review B, 2012, 85, .	1.1	80
144	Elliot-Yafet Mechanism in Graphene. Physical Review Letters, 2012, 108, 206808.	2.9	114

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145	Correlated Magnetic States in Extended One-Dimensional Defects in Graphene. Nano Letters, 2012, 12, 5097-5102.	4.5	69
146	Spin-orbit coupling assisted by flexural phonons in graphene. Physical Review B, 2012, 86, .	1.1	34
147	Confined magneto-optical waves in graphene. Physical Review B, 2012, 85, .	1.1	54
148	Spatially Resolved Electronic Structures of Atomically Precise Armchair Graphene Nanoribbons. Scientific Reports, 2012, 2, 983.	1.6	246
149	Optical conductivity study of screening of many-body effects in graphene interfaces. Europhysics Letters, 2012, 99, 67009.	0.7	25
150	Silicon layer intercalation of centimeter-scale, epitaxially grown monolayer graphene on Ru(0001). Applied Physics Letters, 2012, 100, .	1.5	101
151	Two-dimensional crystals-based heterostructures: materials with tailored properties. Physica Scripta, 2012, T146, 014006.	1.2	258
152	Magnetic states and optical properties of single-layer carbon-doped hexagonal boron nitride. Applied Physics Letters, 2012, 100, .	1.5	74
153	Continuum model of the twisted graphene bilayer. Physical Review B, 2012, 86, .	1.1	463
154	Transforming moirÃ© blisters into geometric graphene nano-bubbles. Nature Communications, 2012, 3, 823.	5.8	157
155	Electron-Electron Interactions in Graphene: Current Status and Perspectives. Reviews of Modern Physics, 2012, 84, 1067-1125.	16.4	999
156	Quenching of the Quantum Hall Effect in Graphene with Scrolled Edges. Physical Review Letters, 2012, 108, 166602.	2.9	12
157	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. Nature, 2012, 487, 82-85.	13.7	1,780
158	Electron Tunneling through Ultrathin Boron Nitride Crystalline Barriers. Nano Letters, 2012, 12, 1707-1710.	4.5	724
159	Another Spin on Graphene. Science, 2011, 332, 315-316.	6.0	8
160	Unified description of the dc conductivity of monolayer and bilayer graphene at finite densities based on resonant scatterers. Physical Review B, 2011, 83, .	1.1	152
161	Magnetic exchange mechanism for electronic gap opening in graphene. Europhysics Letters, 2011, 96, 27010.	0.7	8
162	Faraday effect in graphene enclosed in an optical cavity and the equation of motion method for the study of magneto-optical transport in solids. Physical Review B, 2011, 84, .	1.1	125

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163	Topologically protected zero modes in twisted bilayer graphene. Physical Review B, 2011, 84, .	1.1	112
164	Chiral filtering in graphene with coupled valleys. Physical Review B, 2011, 84, .	1.1	4
165	Coulomb drag and high-resistivity behavior in double-layer graphene. Europhysics Letters, 2011, 95, 18001.	0.7	51
166	Infrared Nanoscopy of Dirac Plasmons at the Grapheneâ€“SiO₂ Interface. Nano Letters, 2011, 11, 4701-4705.	4.5	500
167	New directions in science and technology: two-dimensional crystals. Reports on Progress in Physics, 2011, 74, 082501.	8.1	206
168	A new route to graphene layers by selective laser ablation. AIP Advances, 2011, 1, .	0.6	56
169	Two-Dimensional Crystals: Beyond Graphene. Materials Express, 2011, 1, 10-17.	0.2	135
170	Electronic doping of graphene by deposited transition metal atoms. Physical Review B, 2011, 84, .	1.1	29
171	Pinning of a two-dimensional membrane on top of a patterned substrate: The case of graphene. Physical Review B, 2011, 83, .	1.1	55
172	Kondo Quantum Criticality of Magnetic Adatoms in Graphene. Physical Review Letters, 2011, 106, 016801.	2.9	132
173	Quantum Hall Effect in Twisted Bilayer Graphene. Physical Review Letters, 2011, 107, 216602.	2.9	104
174	Transport properties of graphene with one-dimensional charge defects. Europhysics Letters, 2011, 94, 28003.	0.7	63
175	The carbon new age. Materials Today, 2010, 13, 12-17.	8.3	71
176	Observation of Van Hove singularities in twisted graphene layers. Nature Physics, 2010, 6, 109-113.	6.5	954
177	Effect of external conditions on the structure of scrolled graphene edges. Physical Review B, 2010, 81, .	1.1	43
178	Biaxial Strain in Graphene Adhered to Shallow Depressions. Nano Letters, 2010, 10, 6-10.	4.5	193
179	Strain-Induced Pseudoâ€“Magnetic Fields Greater Than 300 Tesla in Graphene Nanobubbles. Science, 2010, 329, 544-547.	6.0	1,367
180	Geometry, Mechanics, and Electronics of Singular Structures and Wrinkles in Graphene. Physical Review Letters, 2010, 105, 156603.	2.9	177

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181	Optical properties of strained graphene. Europhysics Letters, 2010, 92, 67001.	0.7	112
182	Electronic properties of a biased graphene bilayer. Journal of Physics Condensed Matter, 2010, 22, 175503.	0.7	209
183	Excitonic Effects in the Optical Conductivity of Gated Graphene. Physical Review Letters, 2010, 105, 055501.	2.9	67
184	Reply to â€œComment on â€˜Quantum phase transition in the four-spin exchange antiferromagnetâ€™â€‰â€ Physical Review B, 2010, 82, .	1.1	3
185	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>N</mml:mi></mml:mrow></mml:math>expansion in correlated graphene. Physical Review B, 2009, 80, .	1.1	20
186	Comment on â€œBCS Superconductivity of Dirac Electrons in Graphene Layersâ€ Physical Review Letters, 2009, 102, 109701; author reply 109702.	2.9	12
187	Quantum phase transition in the four-spin exchange antiferromagnet. Physical Review B, 2009, 80, .	1.1	16
188	Magnetism and magnetotransport in disordered graphene. Physical Review B, 2009, 80, .	1.1	31
189	Distortion of the perfect lattice structure in bilayer graphene. Physical Review B, 2009, 79, .	1.1	11
190	Adatoms in graphene. Solid State Communications, 2009, 149, 1094-1100.	0.9	65
191	Observation of the Kohn anomaly near the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>point of bilayer graphene. Physical Review B, 2009, 80, .	1.1	32
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