

James C Hone

List of Publications by Year in descending order

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499
papers

113,117
citations

588

125
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519
all docs

519
docs citations

519
times ranked

68673
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Elastic Properties and Intrinsic Strength of Monolayer Graphene. Science, 2008, 321, 385-388.	12.6	17,513
2	Atomically Thin MoS_2 : A New Direct-Gap Semiconductor. Physical Review Letters, 2010, 105, 136805.	7.8	12,565
3	Ultrahigh electron mobility in suspended graphene. Solid State Communications, 2008, 146, 351-355.	1.9	6,963
4	Boron nitride substrates for high-quality graphene electronics. Nature Nanotechnology, 2010, 5, 722-726.	31.5	5,794
5	Anomalous Lattice Vibrations of Single- and Few-Layer MoS_2 . ACS Nano, 2010, 4, 2695-2700.	14.6	4,028
6	Tightly bound trions in monolayer MoS_2 . Nature Materials, 2013, 12, 207-211.	27.5	2,329
7	One-Dimensional Electrical Contact to a Two-Dimensional Material. Science, 2013, 342, 614-617.	12.6	2,236
8	Atomically thin p-n junctions with van der Waals heterointerfaces. Nature Nanotechnology, 2014, 9, 676-681.	31.5	1,953
9	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. Nature Materials, 2013, 12, 554-561.	27.5	1,896
10	Piezoelectricity of single-atomic-layer MoS_2 for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	27.8	1,762
11	Two-dimensional flexible nanoelectronics. Nature Communications, 2014, 5, 5678.	12.8	1,533
12	Frictional Characteristics of Atomically Thin Sheets. Science, 2010, 328, 76-80.	12.6	1,504
13	Hofstadter's butterfly and the fractal quantum Hall effect in moiré superlattices. Nature, 2013, 497, 598-602.	27.8	1,404
14	Multi-terminal transport measurements of MoS_2 using a van der Waals heterostructure device platform. Nature Nanotechnology, 2015, 10, 534-540.	31.5	1,099
15	Temperature-Dependent Transport in Suspended Graphene. Physical Review Letters, 2008, 101, 096802.	7.8	1,044
16	Thermal conductivity of single-walled carbon nanotubes. Physical Review B, 1999, 59, R2514-R2516.	3.2	1,042
17	Measurement of the optical dielectric function of monolayer transition-metal dichalcogenides: MoS_2 and MoSe_2 . Physical Review Letters, 2014, 112, 077401.	3.2	1,017
18	The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. Science, 2013, 342, 720-723.	12.6	977

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19	Chip-integrated ultrafast graphene photodetector with high responsivity. Nature Photonics, 2013, 7, 883-887.	31.4	971
20	Flexible and Transparent MoS ₂ Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. ACS Nano, 2013, 7, 7931-7936.	14.6	947
21	Performance of monolayer graphene nanomechanical resonators with electrical readout. Nature Nanotechnology, 2009, 4, 861-867.	31.5	847
22	Highly confined low-loss plasmons in graphene-boron nitride heterostructures. Nature Materials, 2015, 14, 421-425.	27.5	847
23	Electrical and thermal transport properties of magnetically aligned single wall carbon nanotube films. Applied Physics Letters, 2000, 77, 666-668.	3.3	775
24	High-Strength Chemical-Vapor-Deposited Graphene and Grain Boundaries. Science, 2013, 340, 1073-1076.	12.6	753
25	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	27.8	644
26	Edge Nonlinear Optics on a MoS ₂ Atomic Monolayer. Science, 2014, 344, 488-490.	12.6	631
27	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. Nature Communications, 2013, 4, 1624.	12.8	595
28	Phonon softening and crystallographic orientation of strained graphene studied by Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7304-7308.	7.1	584
29	Effect of defects on the intrinsic strength and stiffness of graphene. Nature Communications, 2014, 5, 3186.	12.8	560
30	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	27.5	544
31	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	12.8	526
32	Strengthening effect of single-atomic-layer graphene in metal-graphene nanolayered composites. Nature Communications, 2013, 4, 2114.	12.8	520
33	Regenerative oscillation and four-wave mixing in graphene optoelectronics. Nature Photonics, 2012, 6, 554-559.	31.4	519
34	Electrostatically-generated nanofibers of electronic polymers. Synthetic Metals, 2001, 119, 27-30.	3.9	503
35	Quantized Phonon Spectrum of Single-Wall Carbon Nanotubes. Science, 2000, 289, 1730-1733.	12.6	471
36	The hot pick-up technique for batch assembly of van der Waals heterostructures. Nature Communications, 2016, 7, 11894.	12.8	446

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37	Thermal properties of carbon nanotubes and nanotube-based materials. Applied Physics A: Materials Science and Processing, 2002, 74, 339-343.	2.3	445
38	Measurement of mobility in dual-gated MoS ₂ transistors. Nature Nanotechnology, 2013, 8, 146-147.	31.5	443
39	Covalently Bridging Gaps in Single-Walled Carbon Nanotubes with Conducting Molecules. Science, 2006, 311, 356-359.	12.6	438
40	Direct Measurement of the Thickness-Dependent Electronic Band Structure of MoS_2 Using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2013, 111, 106801.	7.8	435
41	Electron tunneling through atomically flat and ultrathin hexagonal boron nitride. Applied Physics Letters, 2011, 99, .	3.3	425
42	In-Plane Anisotropy in Mono- and Few-Layer ReS ₂ Probed by Raman Spectroscopy and Scanning Transmission Electron Microscopy. Nano Letters, 2015, 15, 5667-5672.	9.1	406
43	Multicomponent fractional quantum Hall effect in Graphene. Nature Physics, 2011, 7, 693-696.	16.7	405
44	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	27.8	401
45	Nonlinear elastic behavior of two-dimensional molybdenum disulfide. Physical Review B, 2013, 87, .	3.2	400
46	Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoSe_2 . Physical Review Letters, 2014, 113, 266804.	7.8	395
47	Disorder in van der Waals heterostructures of 2D materials. Nature Materials, 2019, 18, 541-549.	27.5	390
48	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	12.6	387
49	Chemical Vapor Deposition-Derived Graphene with Electrical Performance of Exfoliated Graphene. Nano Letters, 2012, 12, 2751-2756.	9.1	365
50	Probing Strain-Induced Electronic Structure Change in Graphene by Raman Spectroscopy. Nano Letters, 2010, 10, 4074-4079.	9.1	357
51	Transparent and Catalytic Carbon Nanotube Films. Nano Letters, 2008, 8, 982-987.	9.1	344
52	Elastic and frictional properties of graphene. Physica Status Solidi (B): Basic Research, 2009, 246, 2562-2567.	1.5	333
53	Highly Stable, Dual-Gated MoS ₂ Transistors Encapsulated by Hexagonal Boron Nitride with Gate-Controllable Contact, Resistance, and Threshold Voltage. ACS Nano, 2015, 9, 7019-7026.	14.6	331
54	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. Nature, 2019, 574, 76-80.	27.8	331

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55	Electrical Tuning of Exciton Binding Energies in Monolayer WS_2 . Physical Review Letters, 2015, 115, 126802.	7.8	323
56	Moiré heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	16.7	317
57	Magnetic brightening and control of dark excitons in monolayer WSe_2 . Nature Nanotechnology, 2017, 12, 883-888.	31.5	315
58	Correlated insulating states at fractional fillings of moiré superlattices. Nature, 2020, 587, 214-218.	27.8	315
59	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. Nature Photonics, 2016, 10, 244-247.	31.4	312
60	Conductivity of a single DNA duplex bridging a carbon nanotube gap. Nature Nanotechnology, 2008, 3, 163-167.	31.5	308
61	Nanowire-based very-high-frequency electromechanical resonator. Applied Physics Letters, 2003, 83, 1240-1242.	3.3	307
62	Spin and valley quantum Hall ferromagnetism in graphene. Nature Physics, 2012, 8, 550-556.	16.7	307
63	An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66.	27.8	307
64	Strong interfacial exchange field in the graphene/EuS heterostructure. Nature Materials, 2016, 15, 711-716.	27.5	292
65	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	31.5	287
66	Scaling of Resistance and Electron Mean Free Path of Single-Walled Carbon Nanotubes. Physical Review Letters, 2007, 98, 186808.	7.8	285
67	Bright visible light emission from graphene. Nature Nanotechnology, 2015, 10, 676-681.	31.5	284
68	Tailoring the Electronic Structure in Bilayer Molybdenum Disulfide via Interlayer Twist. Nano Letters, 2014, 14, 3869-3875.	9.1	278
69	Measurement of Lateral and Interfacial Thermal Conductivity of Single- and Bilayer MoS_2 and MoSe_2 Using Refined Optothermal Raman Technique. ACS Applied Materials & Interfaces, 2015, 7, 25923-25929.	8.0	275
70	Thermoelectric Power of Single-Walled Carbon Nanotubes. Physical Review Letters, 1998, 80, 1042-1045.	7.8	262
71	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	12.6	262
72	Graphene mechanical oscillators with tunable frequency. Nature Nanotechnology, 2013, 8, 923-927.	31.5	259

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73	Acoustic terahertz graphene plasmons revealed by photocurrent nanoscopy. Nature Nanotechnology, 2017, 12, 31-35.	31.5	257
74	Photoconductivity of Self-Assembled Porphyrin Nanorods. Nano Letters, 2004, 4, 1261-1265.	9.1	253
75	Electron optics with p-n junctions in ballistic graphene. Science, 2016, 353, 1522-1525.	12.6	253
76	Tuning quantum nonlocal effects in graphene plasmonics. Science, 2017, 357, 187-191.	12.6	251
77	Strong Enhancement of Light-Matter Interaction in Graphene Coupled to a Photonic Crystal Nanocavity. Nano Letters, 2012, 12, 5626-5631.	9.1	248
78	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	4.4	242
79	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co ₄ /h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	9.1	233
80	Optical Spectroscopy of Individual Single-Walled Carbon Nanotubes of Defined Chiral Structure. Science, 2006, 312, 554-556.	12.6	231
81	Probing Electronic Transitions in Individual Carbon Nanotubes by Rayleigh Scattering. Science, 2004, 306, 1540-1543.	12.6	228
82	Nature of the quantum metal in a two-dimensional crystalline superconductor. Nature Physics, 2016, 12, 208-212.	16.7	228
83	Cells test substrate rigidity by local contractions on submicrometer pillars. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5328-5333.	7.1	227
84	Is the Intrinsic Thermoelectric Power of Carbon Nanotubes Positive?. Physical Review Letters, 2000, 85, 4361-4364.	7.8	222
85	Linearly Polarized Excitons in Single- and Few-Layer ReS ₂ Crystals. ACS Photonics, 2016, 3, 96-101.	6.6	216
86	CD28 and CD3 have complementary roles in T-cell traction forces. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2241-2246.	7.1	211
87	Transition-Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. Advanced Materials, 2016, 28, 9735-9743.	21.0	208
88	Substrate effect on thickness-dependent friction on graphene. Physica Status Solidi (B): Basic Research, 2010, 247, 2909-2914.	1.5	206
89	Structure and control of charge density waves in two-dimensional 1T-TaS ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15054-15059.	7.1	205
90	Observation of Graphene Bubbles and Effective Mass Transport under Graphene Films. Nano Letters, 2009, 9, 332-337.	9.1	198

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91	Deterministic coupling of site-controlled quantum emitters in monolayer WSe ₂ to plasmonic nanocavities. Nature Nanotechnology, 2018, 13, 1137-1142.	31.5	198
92	Fabrication and electrical characterization of polyaniline-based nanofibers with diameter below 30 nm. Applied Physics Letters, 2003, 83, 3800-3802.	3.3	196
93	Controlling the spontaneous emission rate of monolayer MoS ₂ in a photonic crystal nanocavity. Applied Physics Letters, 2013, 103, 181119.	3.3	194
94	Thermal conductivity of single-walled carbon nanotubes. Synthetic Metals, 1999, 103, 2498-2499.	3.9	189
95	Piezophototronic Effect in Single-Atomic-Layer MoS ₂ for Strain-Gated Flexible Optoelectronics. Advanced Materials, 2016, 28, 8463-8468.	21.0	187
96	Visualization of moiré superlattices. Nature Nanotechnology, 2020, 15, 580-584.	31.5	187
97	High-Responsivity Graphene-Boron Nitride Photodetector and Autocorrelator in a Silicon Photonic Integrated Circuit. Nano Letters, 2015, 15, 7288-7293.	9.1	185
98	Graphene based heterostructures. Solid State Communications, 2012, 152, 1275-1282.	1.9	184
99	Energy Transfer from Quantum Dots to Graphene and MoS ₂ : The Role of Absorption and Screening in Two-Dimensional Materials. Nano Letters, 2016, 16, 2328-2333.	9.1	179
100	High-Contrast Electrooptic Modulation of a Photonic Crystal Nanocavity by Electrical Gating of Graphene. Nano Letters, 2013, 13, 691-696.	9.1	177
101	Excitonic superfluid phase in double bilayer-graphene. Nature Physics, 2017, 13, 751-755.	16.7	173
102	Interfacial Charge Transfer Circumventing Momentum Mismatch at Two-Dimensional van der Waals Heterojunctions. Nano Letters, 2017, 17, 3591-3598.	9.1	172
103	Transferred via contacts as a platform for ideal two-dimensional transistors. Nature Electronics, 2019, 2, 187-194.	26.0	172
104	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	27.5	169
105	Tropomyosin controls sarcomere-like contractions for rigidity sensing and suppressing growth on soft matrices. Nature Cell Biology, 2016, 18, 33-42.	10.3	168
106	Interfacial ferroelectricity in rhombohedral-stacked bilayer transition metal dichalcogenides. Nature Nanotechnology, 2022, 17, 367-371.	31.5	167
107	Modulation of Quantum Tunneling via a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide p-n Junction. ACS Nano, 2017, 11, 9143-9150.	14.6	164
108	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	27.8	163

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109	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. Nano Letters, 2019, 19, 4371-4379.	9.1	161
110	Chemical doping of individual semiconducting carbon-nanotube ropes. Physical Review B, 2000, 61, R10606-R10608.	3.2	159
111	Optical Third-Harmonic Generation in Graphene. Physical Review X, 2013, 3, .	8.9	159
112	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe ₂ . Nature Physics, 2016, 12, 328-332.	16.7	159
113	Carrier-Type Modulation and Mobility Improvement of Thin MoTe ₂ . Advanced Materials, 2017, 29, 1606433.	21.0	158
114	Evidence for a fractional fractal quantum Hall effect in graphene superlattices. Science, 2015, 350, 1231-1234.	12.6	155
115	Mott Insulating State in Ultraclean Carbon Nanotubes. Science, 2009, 323, 106-110.	12.6	151
116	Decoding Information in Cell Shape. Cell, 2013, 154, 1356-1369.	28.9	151
117	Effect of surface morphology on friction of graphene on various substrates. Nanoscale, 2013, 5, 3063.	5.6	148
118	High-Speed Electro-Optic Modulator Integrated with Graphene-Boron Nitride Heterostructure and Photonic Crystal Nanocavity. Nano Letters, 2015, 15, 2001-2005.	9.1	142
119	Thermoelectric detection and imaging of propagating graphene plasmons. Nature Materials, 2017, 16, 204-207.	27.5	141
120	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
121	Evidence for a spin phase transition at charge neutrality in bilayer graphene. Nature Physics, 2013, 9, 154-158.	16.7	138
122	Graphene Field-Effect Transistors Based on Boron Nitride Dielectrics. Proceedings of the IEEE, 2013, 101, 1609-1619.	21.3	137
123	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	12.6	137
124	Stripe phases in WSe ₂ /WS ₂ moiré superlattices. Nature Materials, 2021, 20, 940-944.	27.5	137
125	Imaging strain-localized excitons in nanoscale bubbles of monolayer WSe ₂ at room temperature. Nature Nanotechnology, 2020, 15, 854-860.	31.5	134
126	Phonons and Thermal Properties of Carbon Nanotubes. , 2001, , 273-286.		133

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127	Efficient generation of neutral and charged biexcitons in encapsulated WSe ₂ monolayers. Nature Communications, 2018, 9, 3718.	12.8	133
128	Engineering the Structural and Electronic Phases of MoTe ₂ through W Substitution. Nano Letters, 2017, 17, 1616-1622.	9.1	128
129	Tunable excitons in bilayer graphene. Science, 2017, 358, 907-910.	12.6	126
130	Spin-orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	27.8	126
131	Deep moiré potentials in twisted transition metal dichalcogenide bilayers. Nature Physics, 2021, 17, 720-725.	16.7	124
132	Microfabrication and mechanical properties of nanoporous gold at the nanoscale. Scripta Materialia, 2007, 56, 437-440.	5.2	123
133	Large Physisorption Strain in Chemical Vapor Deposition of Graphene on Copper Substrates. Nano Letters, 2012, 12, 2408-2413.	9.1	122
134	Electronic compressibility of layer-polarized bilayer graphene. Physical Review B, 2012, 85, .	3.2	121
135	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for High-Performance Organic Electronics. Advanced Materials, 2014, 26, 2812-2817.	21.0	120
136	Thickness-dependent Schottky barrier height of MoS ₂ field-effect transistors. Nanoscale, 2017, 9, 6151-6157.	5.6	120
137	Graphene nanoelectromechanical systems. Proceedings of the IEEE, 2013, 101, 1766-1779.	21.3	119
138	Interactions between Individual Carbon Nanotubes Studied by Rayleigh Scattering Spectroscopy. Physical Review Letters, 2006, 96, 167401.	7.8	117
139	Graphene Field-Effect Transistors with Gigahertz-Frequency Power Gain on Flexible Substrates. Nano Letters, 2013, 13, 121-125.	9.1	117
140	Tunable crystal symmetry in graphene-boron nitride heterostructures with coexisting moiré superlattices. Nature Nanotechnology, 2019, 14, 1029-1034.	31.5	114
141	Direct Measurement of the Tunable Electronic Structure of Bilayer MoS ₂ by Interlayer Twist. Nano Letters, 2016, 16, 953-959.	9.1	113
142	Patterning metal contacts on monolayer MoS ₂ with vanishing Schottky barriers using thermal nanolithography. Nature Electronics, 2019, 2, 17-25.	26.0	113
143	Radio frequency electrical transduction of graphene mechanical resonators. Applied Physics Letters, 2010, 97, .	3.3	112
144	Flexible Graphene Field-Effect Transistors Encapsulated in Hexagonal Boron Nitride. ACS Nano, 2015, 9, 8953-8959.	14.6	112

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145	Recoverable Slippage Mechanism in Multilayer Graphene Leads to Repeatable Energy Dissipation. ACS Nano, 2016, 10, 1820-1828.	14.6	112
146	Electrical characterization of 2D materials-based field-effect transistors. 2D Materials, 2021, 8, 012002.	4.4	111
147	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	9.1	109
148	A Fermiâ€Levelâ€Pinningâ€Free 1D Electrical Contact at the Intrinsic 2D MoS ₂ â€Metal Junction. Advanced Materials, 2019, 31, e1808231.	21.0	108
149	FHOD1 Is Needed for Directed Forces and Adhesion Maturation during Cell Spreading and Migration. Developmental Cell, 2013, 27, 545-559.	7.0	107
150	Plasma Membrane Area Increases with Spread Area by Exocytosis of a GPI-anchored Protein Compartment. Molecular Biology of the Cell, 2009, 20, 3261-3272.	2.1	106
151	Low-Voltage Organic Electronics Based on a Gate-Tunable Injection Barrier in Vertical graphene-organic Semiconductor Heterostructures. Nano Letters, 2015, 15, 69-74.	9.1	105
152	Nanomechanical hydrogen sensing. Applied Physics Letters, 2005, 86, 143104.	3.3	103
153	Force generated by actomyosin contraction builds bridges between adhesive contacts. EMBO Journal, 2010, 29, 1055-1068.	7.8	102
154	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. ACS Applied Materials & Interfaces, 2017, 9, 27504-27511.	8.0	102
155	Ultraclean Patterned Transfer of Single-Layer Graphene by Recyclable Pressure Sensitive Adhesive Films. Nano Letters, 2015, 15, 3236-3240.	9.1	101
156	Cardiomyocytes Sense Matrix Rigidity through a Combination of Muscle and Non-muscle Myosin Contractions. Developmental Cell, 2018, 44, 326-336.e3.	7.0	101
157	Inking Elastomeric Stamps with Microâ€Patterned, Single Layer Graphene to Create Highâ€Performance OFETs. Advanced Materials, 2011, 23, 3531-3535.	21.0	100
158	Transport properties of a potassium-doped single-wall carbon nanotube rope. Physical Review B, 2000, 61, 4526-4529.	3.2	99
159	Variable Electron-Phonon Coupling in Isolated Metallic Carbon Nanotubes Observed by Raman Scattering. Physical Review Letters, 2007, 99, 027402.	7.8	98
160	Negligible Environmental Sensitivity of Graphene in a Hexagonal Boron Nitride/Graphene/h-BN Sandwich Structure. ACS Nano, 2012, 6, 9314-9319.	14.6	98
161	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	16.6	98
162	Electrothermal tuning of Alâ€SiC nanomechanical resonators. Nanotechnology, 2006, 17, 1506-1511.	2.6	96

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163	Graphene growth on h-BN by molecular beam epitaxy. Solid State Communications, 2012, 152, 975-978.	1.9	92
164	Magnetism in semiconducting molybdenum dichalcogenides. Science Advances, 2018, 4, eaat3672.	10.3	92
165	Even-denominator fractional quantum Hall states in bilayer graphene. Science, 2017, 358, 648-652.	12.6	90
166	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. Nano Letters, 2018, 18, 3807-3813.	9.1	88
167	Purcell-enhanced quantum yield from carbon nanotube excitons coupled to plasmonic nanocavities. Nature Communications, 2017, 8, 1413.	12.8	87
168	Renormalization of the Graphene Dispersion Velocity Determined from Scanning Tunneling Spectroscopy. Physical Review Letters, 2012, 109, 116802.	7.8	86
169	Limits of Carrier Diffusion in <i>n</i> -Type and <i>p</i> -Type CH ₃ NH ₃ PbI ₃ Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2016, 7, 3510-3518.	4.6	86
170	Terahertz Nanofocusing with Cantilevered Terahertz-Resonant Antenna Tips. Nano Letters, 2017, 17, 6526-6533.	9.1	84
171	Cobalt Ultrathin Film Catalyzed Ethanol Chemical Vapor Deposition of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 11103-11109.	2.6	83
172	Determination of the Young's Modulus of Structurally Defined Carbon Nanotubes. Nano Letters, 2008, 8, 4158-4161.	9.1	83
173	Negative Coulomb Drag in Double Bilayer Graphene. Physical Review Letters, 2016, 117, 046802.	7.8	83
174	Controlled Placement of Individual Carbon Nanotubes. Nano Letters, 2005, 5, 1515-1518.	9.1	80
175	Near-field photocurrent nanoscopy on bare and encapsulated graphene. Nature Communications, 2016, 7, 10783.	12.8	80
176	Influence of the substrate material on the optical properties of tungsten diselenide monolayers. 2D Materials, 2017, 4, 025045.	4.4	80
177	Optical generation of high carrier densities in 2D semiconductor heterobilayers. Science Advances, 2019, 5, eaax0145.	10.3	80
178	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. Nature Communications, 2019, 10, 109.	12.8	79
179	Electrically Driven Reversible Phase Changes in Layered In ₂ Se ₃ Crystalline Film. Advanced Materials, 2017, 29, 1703568.	21.0	77
180	Nanobubble induced formation of quantum emitters in monolayer semiconductors. 2D Materials, 2017, 4, 021019.	4.4	76

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181	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. Physical Review Letters, 2014, 112, .	7.8	74
182	Optical parametric amplification by monolayer transition metal dichalcogenides. Nature Photonics, 2021, 15, 6-10.	31.4	74
183	Screen printing of 2D semiconductors. Nature, 2017, 544, 167-168.	27.8	73
184	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	10.3	73
185	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. Nature Communications, 2017, 8, 948.	12.8	71
186	Direct Measurement of Strain-Induced Changes in the Band Structure of Carbon Nanotubes. Physical Review Letters, 2008, 100, 136803.	7.8	70
187	Gate-Tunable Hole and Electron Carrier Transport in Atomically Thin Dual-Channel WSe ₂ /MoS ₂ Heterostructure for Ambipolar Field-Effect Transistors. Advanced Materials, 2016, 28, 9519-9525.	21.0	70
188	Observation of Ground- and Excited-State Charge Transfer at the C ₆₀ /Graphene Interface. ACS Nano, 2015, 9, 7175-7185.	14.6	69
189	Graphene Field-Effect Transistors for Radio-Frequency Flexible Electronics. IEEE Journal of the Electron Devices Society, 2015, 3, 44-48.	2.1	69
190	Enhanced photodetection in graphene-integrated photonic crystal cavity. Applied Physics Letters, 2013, 103, .	3.3	68
191	Î±-Actinin links extracellular matrix rigidity-sensing contractile units with periodic cell-edge retractions. Molecular Biology of the Cell, 2016, 27, 3471-3479.	2.1	68
192	EGFR and HER2 activate rigidity sensing only on rigid matrices. Nature Materials, 2017, 16, 775-781.	27.5	68
193	Electrically integrated SU-8 clamped graphene drum resonators for strain engineering. Applied Physics Letters, 2013, 102, 153101.	3.3	67
194	Enhanced four-wave mixing in graphene-silicon slow-light photonic crystal waveguides. Applied Physics Letters, 2014, 105, .	3.3	67
195	Fast thermal relaxation in cavity-coupled graphene bolometers with a Johnson noise read-out. Nature Nanotechnology, 2018, 13, 797-801.	31.5	66
196	Mediated Enzyme Electrodes with Combined Micro- and Nanoscale Supports. Electrochemical and Solid-State Letters, 2007, 10, B96.	2.2	65
197	Dipolar excitonic insulator in a moiré lattice. Nature Physics, 2022, 18, 395-400.	16.7	65
198	Organic Field Effect Transistors Based on Graphene and Hexagonal Boron Nitride Heterostructures. Advanced Functional Materials, 2014, 24, 5157-5163.	14.9	64

#	ARTICLE	IF	CITATIONS
199	Electrical 2 π phase control of infrared light in a 350-nm footprint using graphene plasmons. Nature Photonics, 2017, 11, 421-424.	31.4	63
200	High-Quality Magnetotransport in Graphene Using the Edge-Free Corbino Geometry. Physical Review Letters, 2019, 122, 137701.	7.8	62
201	Observation of Thermopower Oscillations in the Coulomb Blockade Regime in a Semiconducting Carbon Nanotube. Nano Letters, 2004, 4, 45-49.	9.1	61
202	Longitudinal Optical Phonons in Metallic and Semiconducting Carbon Nanotubes. Physical Review Letters, 2009, 102, 075501.	7.8	61
203	Spin-orbit-driven ferromagnetism at half moiré filling in magic-angle twisted bilayer graphene. Science, 2022, 375, 437-441.	12.6	61
204	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe ₂ . Nature Materials, 2018, 17, 411-415.	27.5	60
205	Tuning layer-hybridized moiré excitons by the quantum-confined Stark effect. Nature Nanotechnology, 2021, 16, 52-57.	31.5	60
206	Moiré metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	12.8	60
207	Evidence for Distinct Polymer Chain Orientations in KC ₆₀ and RbC ₆₀ . Physical Review Letters, 1998, 81, 4420-4423.	7.8	59
208	Via Method for Lithography Free Contact and Preservation of 2D Materials. Nano Letters, 2018, 18, 1416-1420.	9.1	59
209	Moiréless correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	59
210	Cell spreading as a hydrodynamic process. Soft Matter, 2010, 6, 4788.	2.7	58
211	Prolonged spontaneous emission and dephasing of localized excitons in air-bridged carbon nanotubes. Nature Communications, 2013, 4, 2152.	12.8	58
212	Physical Adsorption and Charge Transfer of Molecular Br ₂ on Graphene. ACS Nano, 2014, 8, 2943-2950.	14.6	58
213	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	12.6	58
214	Heterostructures based on inorganic and organic van der Waals systems. APL Materials, 2014, 2, .	5.1	57
215	Tuning the electronic structure of monolayer graphene/ MoS_2 van der Waals heterostructures via interlayer twist. Physical Review B, 2015, 92, .	3.2	56
216	Simple Fabrication of Molecular Circuits by Shadow Mask Evaporation. Nano Letters, 2003, 3, 1371-1374.	9.1	55

#	ARTICLE	IF	CITATIONS
217	Excitons and high-order optical transitions in individual carbon nanotubes: A Rayleigh scattering spectroscopy study. <i>Physical Review B</i> , 2010, 81, .	3.2	55
218	Enhanced nonlinear interaction of polaritons via excitonic Rydberg states in monolayer WSe ₂ . <i>Nature Communications</i> , 2021, 12, 2269.	12.8	55
219	Pairing states of composite fermions in double-layer graphene. <i>Nature Physics</i> , 2019, 15, 898-903.	16.7	54
220	Sensitivity of the superconducting state in thin films. <i>Science Advances</i> , 2019, 5, eaau3826.	10.3	54
221	Photoelectrochemical Behavior of n-Type Si(111) Electrodes Coated With a Single Layer of Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 17246-17249.	13.7	53
222	Measurement of collective dynamical mass of Dirac fermions in graphene. <i>Nature Nanotechnology</i> , 2014, 9, 594-599.	31.5	53
223	An aptameric graphene nanosensor for label-free detection of small-molecule biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 71, 222-229.	10.1	53
224	A graphene-based affinity nanosensor for detection of low-charge and low-molecular-weight molecules. <i>Nanoscale</i> , 2016, 8, 5815-5819.	5.6	53
225	Single photon emission in WSe ₂ up to 160 K by quantum yield control. <i>2D Materials</i> , 2019, 6, 035017.	4.4	53
226	Charge-Transfer Plasmon Polaritons at Graphene/RuCl ₃ Interfaces. <i>Nano Letters</i> , 2020, 20, 8438-8445.	9.1	53
227	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe_2 Heterobilayers. <i>Physical Review Letters</i> , 2021, 126, 106804.	7.8	49
228	Enhanced Superconductivity in Monolayer Td-MoTe_2 . <i>Nano Letters</i> , 2021, 21, 2505-2511.	9.1	49
229	Odd- and even-denominator fractional quantum Hall states in monolayer WSe ₂ . <i>Nature Nanotechnology</i> , 2020, 15, 569-573.	31.5	48
230	Near-Unity Light Absorption in a Monolayer WS_2 Van der Waals Heterostructure Cavity. <i>Nano Letters</i> , 2020, 20, 3545-3552.	9.1	48
231	Modulation of mechanical resonance by chemical potential oscillation in graphene. <i>Nature Physics</i> , 2016, 12, 240-244.	16.7	47
232	Graphene-Assisted Antioxidation of Tungsten Disulfide Monolayers: Substrate and Electric Field Effect. <i>Advanced Materials</i> , 2017, 29, 1603898.	21.0	47
233	High Electric Field Carrier Transport and Power Dissipation in Multilayer Black Phosphorus Field Effect Transistor with Dielectric Engineering. <i>Advanced Functional Materials</i> , 2017, 27, 1604025.	14.9	47
234	Cell shape information is transduced through tension-independent mechanisms. <i>Nature Communications</i> , 2017, 8, 2145.	12.8	47

#	ARTICLE	IF	CITATIONS
235	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. ACS Photonics, 2019, 6, 501-509.	6.6	47
236	Magnetic field mixing and splitting of bright and dark excitons in monolayer MoSe ₂ . 2D Materials, 2020, 7, 015017.	4.4	45
237	Creation of moiré bands in a monolayer semiconductor by spatially periodic dielectric screening. Nature Materials, 2021, 20, 645-649.	27.5	45
238	Force-Induced Calpain Cleavage of Talin Is Critical for Growth, Adhesion Development, and Rigidity Sensing. Nano Letters, 2017, 17, 7242-7251.	9.1	44
239	Effective Hexagonal Boron Nitride Passivation of Few-Layered InSe and GaSe to Enhance Their Electronic and Optical Properties. ACS Applied Materials & Interfaces, 2019, 11, 43480-43487.	8.0	44
240	The role of feature curvature in contact guidance. Acta Biomaterialia, 2012, 8, 2595-2601.	8.3	43
241	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	10.3	42
242	High-Throughput Mechanobiology Screening Platform Using Micro- and Nanotopography. Nano Letters, 2016, 16, 2198-2204.	9.1	42
243	Non-destructive electrochemical graphene transfer from reusable thin-film catalysts. Carbon, 2015, 85, 397-405.	10.3	41
244	Nanosecond spin relaxation times in single layer graphene spin valves with hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 109, 122411.	3.3	41
245	Impact ionization by hot carriers in a black phosphorus field effect transistor. Nature Communications, 2018, 9, 3414.	12.8	41
246	Continuous Wave Sum Frequency Generation and Imaging of Monolayer and Heterobilayer Two-Dimensional Semiconductors. ACS Nano, 2020, 14, 708-714.	14.6	41
247	High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. Nature Electronics, 2021, 4, 731-739.	26.0	41
248	Radio-frequency transmission characteristics of a multi-walled carbon nanotube. Nanotechnology, 2007, 18, 255701.	2.6	40
249	Electrostatic Screening of Charged Defects in Monolayer MoS ₂ . Journal of Physical Chemistry Letters, 2017, 8, 2148-2152.	4.6	40
250	Directed Assembly of Single Wall Carbon Nanotube Field Effect Transistors. ACS Nano, 2016, 10, 2975-2981.	14.6	39
251	Dielectric Dispersion and High Field Response of Multilayer Hexagonal Boron Nitride. Advanced Functional Materials, 2018, 28, 1804235.	14.9	38
252	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	9.1	38

#	ARTICLE	IF	CITATIONS
253	Selective Biomolecular Nanoarrays for Parallel Single-Molecule Investigations. Journal of the American Chemical Society, 2011, 133, 7656-7659.	13.7	37
254	Encapsulated graphene field-effect transistors for air stable operation. Applied Physics Letters, 2015, 106, .	3.3	35
255	Plastic deformation in nanoscale gold single crystals and open-celled nanoporous gold. Modelling and Simulation in Materials Science and Engineering, 2007, 15, S181-S192.	2.0	34
256	Slow Gold Adatom Diffusion on Graphene: Effect of Silicon Dioxide and Hexagonal Boron Nitride Substrates. Journal of Physical Chemistry B, 2013, 117, 4305-4312.	2.6	34
257	Graphene transistor based on tunable Dirac fermion optics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6575-6579.	7.1	34
258	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1641.	12.8	34
259	Nanoscale lattice dynamics in hexagonal boron nitride moiré superlattices. Nature Communications, 2021, 12, 5741.	12.8	34
260	Non-Brownian Diffusion of Membrane Molecules in Nanopatterned Supported Lipid Bilayers. Nano Letters, 2008, 8, 425-430.	9.1	33
261	Elastically strained nanowires and atomic sheets. MRS Bulletin, 2014, 39, 157-162.	3.5	33
262	Trion-Species-Resolved Quantum Beats in MoSe ₂ . ACS Nano, 2017, 11, 11550-11558.	14.6	33
263	The Critical Role of Electrolyte Gating on the Hydrogen Evolution Performance of Monolayer MoS ₂ . Nano Letters, 2019, 19, 8118-8124.	9.1	33
264	Crossover between strongly coupled and weakly coupled exciton superfluids. Science, 2022, 375, 205-209.	12.6	33
265	High-frequency performance of graphene field effect transistors with saturating IV-characteristics. , 2011, , .		32
266	Quantum Dot Nanoarrays: Self-Assembly With Single-Particle Control and Resolution. Advanced Materials, 2012, 24, 2207-2211.	21.0	32
267	A biomimetic gelatin-based platform elicits a pro-differentiation effect on podocytes through mechanotransduction. Scientific Reports, 2017, 7, 43934.	3.3	32
268	Highly confined in-plane propagating exciton-polaritons on monolayer semiconductors. 2D Materials, 2020, 7, 035031.	4.4	32
269	Fabrication of elastomer pillar arrays with modulated stiffness for cellular force measurements. Journal of Vacuum Science & Technology B, 2008, 26, 2549-2553.	1.3	31
270	Molecular-Scale Quantum Dots from Carbon Nanotube Heterojunctions. Nano Letters, 2009, 9, 1544-1548.	9.1	31

#	ARTICLE	IF	CITATIONS
271	Spatially controlled electrostatic doping in graphene p-i-n junction for hybrid silicon photodiode. Npj 2D Materials and Applications, 2018, 2, .	7.9	31
272	Large and reversible myosin-dependent forces in rigidity sensing. Nature Physics, 2019, 15, 689-695.	16.7	31
273	Femtosecond exciton dynamics in WSe ₂ optical waveguides. Nature Communications, 2020, 11, 3567.	12.8	31
274	Oxygen-Promoted Chemical Vapor Deposition of Graphene on Copper: A Combined Modeling and Experimental Study. ACS Nano, 2018, 12, 9372-9380.	14.6	30
275	Cell spreading as a hydrodynamic process. Soft Matter, 2010, 6, 4788-4799.	2.7	30
276	Surface plasmons induce topological transition in graphene/1 \pm -MoO ₃ heterostructures. Nature Communications, 2022, 13, .	12.8	30
277	Controlled Formation of Carbon Nanotube Junctions via Linker-Induced Assembly in Aqueous Solution. Journal of the American Chemical Society, 2013, 135, 8440-8443.	13.7	29
278	Fragility of the dissipationless state in clean two-dimensional superconductors. Nature Physics, 2019, 15, 947-953.	16.7	29
279	The device level modulation of carrier transport in a 2D WSe ₂ field effect transistor <i>via</i> a plasma treatment. Nanoscale, 2019, 11, 17368-17375.	5.6	29
280	Electrically focus-tuneable ultrathin lens for high-resolution square subpixels. Light: Science and Applications, 2020, 9, 98.	16.6	29
281	Intrinsic donor-bound excitons in ultraclean monolayer semiconductors. Nature Communications, 2021, 12, 871.	12.8	29
282	Growth of serpentine carbon nanotubes on quartz substrates and their electrical properties. Nano Research, 2008, 1, 427-433.	10.4	28
283	G ⁺ and G ⁺ in the Raman spectrum of isolated nanotube: a study on resonance conditions and lineshape. Physica Status Solidi (B): Basic Research, 2008, 245, 2189-2192.	1.5	28
284	Competing Fractional Quantum Hall and Electron Solid Phases in Graphene. Physical Review Letters, 2019, 122, 026802.	7.8	28
285	Enhanced Photoluminescence of Multiple Two-Dimensional van der Waals Heterostructures Fabricated by Layer-by-Layer Oxidation of MoS ₂ . ACS Applied Materials & Interfaces, 2021, 13, 1245-1252.	8.0	28
286	A solid dielectric gated graphene nanosensor in electrolyte solutions. Applied Physics Letters, 2015, 106, 123503.	3.3	27
287	High-performance monolayer MoS ₂ field-effect transistor with large-scale nitrogen-doped graphene electrodes for Ohmic contact. Applied Physics Letters, 2019, 115, .	3.3	27
288	Electrical-transport measurements of KC60. Physical Review B, 1995, 52, R8700-R8702.	3.2	26

#	ARTICLE	IF	CITATIONS
289	Passive electrical properties of multi-walled carbon nanotubes up to 0.1â€‰THz. New Journal of Physics, 2007, 9, 265-265.	2.9	26
290	High-performance integrated graphene electro-optic modulator at cryogenic temperature. Nanophotonics, 2020, 10, 99-104.	6.0	26
291	Tunable and giant valley-selective Hall effect in gapped bilayer graphene. Science, 2022, 375, 1398-1402.	12.6	26
292	Robustly Passivated, Gold Nanoaperture Arrays for Single-Molecule Fluorescence Microscopy. ACS Nano, 2013, 7, 8158-8166.	14.6	25
293	Electrical detection of hyperbolic phonon-polaritons in heterostructures of graphene and boron nitride. Npj 2D Materials and Applications, 2017, 1, .	7.9	25
294	Tunable Exciton-Optomechanical Coupling in Suspended Monolayer MoSe ₂ . Nano Letters, 2021, 21, 2538-2543.	9.1	25
295	Nanometer-Scale Lateral p-n Junctions in Graphene/±-RuCl ₃ Heterostructures. Nano Letters, 2022, 22, 1946-1953.	9.1	25
296	Chemical Vapor Deposition Growth of Graphene and Related Materials. Journal of the Physical Society of Japan, 2015, 84, 121013.	1.6	24
297	Epitaxially Self-Assembled Alkane Layers for Graphene Electronics. Advanced Materials, 2017, 29, 1603925.	21.0	24
298	Exciton Dipole Orientation of Strain-Induced Quantum Emitters in WSe ₂ . Nano Letters, 2020, 20, 5119-5126.	9.1	24
299	Damage-Free Atomic Layer Etch of WSe ₂ : A Platform for Fabricating Clean Two-Dimensional Devices. ACS Applied Materials & Interfaces, 2021, 13, 1930-1942.	8.0	24
300	Electron Spin Density Distribution in the Polymer Phase of CsC60: Assignment of the NMR Spectrum. Physical Review Letters, 2000, 84, 717-720.	7.8	23
301	Time-resolved energy transfer from single chloride-terminated nanocrystals to graphene. Applied Physics Letters, 2014, 104, 171101.	3.3	23
302	Photonic and Plasmonic Guided Modes in Graphene-Silicon Photonic Crystals. ACS Photonics, 2015, 2, 1552-1558.	6.6	23
303	Identifying the Transition Order in an Artificial Ferroelectric van der Waals Heterostructure. Nano Letters, 2022, 22, 1265-1269.	9.1	23
304	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	12.8	23
305	Fabrication and surface chemistry of nanoscale bioarrays designed for the study of cytoskeletal protein binding interactions and their effect on cell motility. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2972.	1.6	22
306	Single-walled carbon nanotubes as shadow masks for nanogap fabrication. Applied Physics Letters, 2006, 88, 143124.	3.3	22

#	ARTICLE	IF	CITATIONS
307	Multiphonon Raman Scattering from Individual Single-Walled Carbon Nanotubes. Physical Review Letters, 2007, 98, 047402.	7.8	22
308	Inspired by strain. Nature Photonics, 2012, 6, 804-806.	31.4	22
309	Publisher's Note: Nonlinear elastic behavior of two-dimensional molybdenum disulfide [Phys. Rev. B, 2013, 87, 035423 (2013)]. Physical Review B, 2013, 87, .	3.2	22
310	Direct observation of grain boundaries in chemical vapor deposited graphene. Carbon, 2017, 115, 147-153.	10.3	22
311	LIM-Nebulette Reinforces Podocyte Structural Integrity by Linking Actin and Vimentin Filaments. Journal of the American Society of Nephrology: JASN, 2020, 31, 2372-2391.	6.1	22
312	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	14.6	22
313	Bilayer WSe ₂ as a natural platform for interlayer exciton condensates in the strong coupling limit. Nature Nanotechnology, 2022, 17, 577-582.	31.5	22
314	Plasma fluorination of carbon-based materials for imprint and molding lithographic applications. Applied Physics Letters, 2008, 93, 153105.	3.3	21
315	Improving the radiation hardness of graphene field effect transistors. Applied Physics Letters, 2016, 109, .	3.3	21
316	The influence of the environment on monolayer tungsten diselenide photoluminescence. Nano Structures Nano Objects, 2018, 15, 84-97.	3.5	21
317	Fabrication of nanoscale bioarrays for the study of cytoskeletal protein binding interactions using nanoimprint lithography. Journal of Vacuum Science & Technology B, 2009, 27, 61-65.	1.3	20
318	Controlled Light-Matter Interaction in Graphene Electrooptic Devices Using Nanophotonic Cavities and Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 95-105.	2.9	20
319	Frictional Magneto-Coulomb Drag in Graphene Double-Layer Heterostructures. Physical Review Letters, 2017, 119, 056802.	7.8	20
320	Search for Superconductivity in Lithium. Journal of Low Temperature Physics, 1999, 114, 445-454.	1.4	19
321	Graphene Metallization of High-Stress Silicon Nitride Resonators for Electrical Integration. Nano Letters, 2013, 13, 4275-4279.	9.1	19
322	Lightly Fluorinated Graphene as a Protective Layer for n-Type Si(111) Photoanodes in Aqueous Electrolytes. Nano Letters, 2016, 16, 4082-4086.	9.1	19
323	Enhancing Hydrogen Evolution Activity of Monolayer Molybdenum Disulfide via a Molecular Proton Mediator. ACS Catalysis, 2021, 11, 12159-12169.	11.2	19
324	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe ₂ . ACS Nano, 2022, 16, 140-147.	14.6	19

#	ARTICLE	IF	CITATIONS
325	Nickel particle-enabled width-controlled growth of bilayer molybdenum disulfide nanoribbons. Science Advances, 2021, 7, eabk1892.	10.3	19
326	Metal-insulator transition in AC60RbC60 and KC60 . Physical Review B, 1997, 56, 6627-6630.	3.2	18
327	Fluorinated diamondlike carbon templates for high resolution nanoimprint lithography. Journal of Vacuum Science & Technology B, 2008, 26, 2394-2398.	1.3	18
328	Dynamic Force Generation by Neural Stem Cells. Cellular and Molecular Bioengineering, 2009, 2, 464-474.	2.1	18
329	Simultaneous electrical and optical readout of graphene-coated high Q silicon nitride resonators. Applied Physics Letters, 2013, 103, .	3.3	18
330	Rapid, all-optical crystal orientation imaging of two-dimensional transition metal dichalcogenide monolayers. Applied Physics Letters, 2015, 107, .	3.3	18
331	Fragility of foot process morphology in kidney podocytes arises from chaotic spatial propagation of cytoskeletal instability. PLoS Computational Biology, 2017, 13, e1005433.	3.2	18
332	Cell shape regulates subcellular organelle location to control early Ca^{2+} signal dynamics in vascular smooth muscle cells. Scientific Reports, 2020, 10, 17866.	3.3	18
333	A Low-Power Edge Detection Image Sensor Based on Parallel Digital Pulse Computation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 1043-1047.	3.0	17
334	Dark-Exciton Driven Energy Funneling into Dielectric Inhomogeneities in Two-Dimensional Semiconductors. Nano Letters, 2022, 22, 2843-2850.	9.1	17
335	Low Bias Electron Scattering in Structure-Identified Single Wall Carbon Nanotubes: Role of Substrate Polar Phonons. Physical Review Letters, 2011, 107, 146601.	7.8	16
336	Probing substrate-dependent long-range surface structure of single-layer and multilayer MoS_2 by low-energy electron microscopy and microprobe diffraction. Physical Review B, 2014, 89, .	3.2	16
337	Tunable Ultrafast Thermal Relaxation in Graphene Measured by Continuous-Wave Photomixing. Physical Review Letters, 2016, 117, 257401.	7.8	16
338	High-Quality Electrostatically Defined Hall Bars in Monolayer Graphene. Nano Letters, 2019, 19, 2583-2587.	9.1	16
339	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
340	Mixed-Dimensional 1D/2D van der Waals Heterojunction Diodes and Transistors in the Atomic Limit. ACS Nano, 2022, 16, 1639-1648.	14.6	15
341	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor. Science Advances, 2022, 8, eabi8481.	10.3	15
342	Slippery when dry. Science, 2015, 348, 1087-1088.	12.6	14

#	ARTICLE	IF	CITATIONS
343	Clean Graphene Electrodes on Organic Thin-Film Devices via Orthogonal Fluorinated Chemistry. Nano Letters, 2015, 15, 2555-2561.	9.1	14
344	The Impact of the Substrate Material on the Optical Properties of 2D WSe ₂ Monolayers. Semiconductors, 2018, 52, 565-571.	0.5	14
345	Directional ultrafast charge transfer in a WSe ₂ /MoSe ₂ heterostructure selectively probed by time-resolved SHG imaging microscopy. Nanoscale Horizons, 2020, 5, 1603-1609.	8.0	14
346	Direct Measurement of the Radiative Pattern of Bright and Dark Excitons and Exciton Complexes in Encapsulated Tungsten Diselenide. Scientific Reports, 2020, 10, 8091.	3.3	14
347	Low-Resistance p-Type Ohmic Contacts to Ultrathin WSe ₂ by Using a Monolayer Dopant. ACS Applied Electronic Materials, 2021, 3, 2941-2947.	4.3	14
348	Chemical Dopant-Free Doping by Annealing and Electron Beam Irradiation on 2D Materials. Advanced Electronic Materials, 2021, 7, 2100449.	5.1	14
349	Shedding light on exciton's nature in monolayer quantum material by optical dispersion measurements. Optics Express, 2019, 27, 37131.	3.4	14
350	Manipulation of Exciton Dynamics in Single-Layer WSe ₂ Using a Toroidal Dielectric Metasurface. Nano Letters, 2021, 21, 9930-9938.	9.1	14
351	Thermal conductivity of single wall carbon nanotubes: Diameter and annealing dependence. AIP Conference Proceedings, 2001, , .	0.4	13
352	Metal-Insulator and Structural Phase Transition Observed by ESR Spectroscopy and X-Ray Diffraction in KC60. Physical Review Letters, 2001, 86, 4346-4349.	7.8	13
353	Fabrication of hundreds of field effect transistors on a single carbon nanotube for basic studies and molecular devices. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 06F101.	1.2	13
354	Single- and bi-layer graphene grown on sapphire by molecular beam epitaxy. Solid State Communications, 2014, 189, 15-20.	1.9	13
355	Tunable electronic correlation effects in nanotube-light interactions. Physical Review B, 2015, 92, .	3.2	13
356	A graphene accelerometer. , 2015, , .		13
357	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. Nano Letters, 2021, 21, 308-316.	9.1	13
358	Dual-Gated Graphene Devices for Near-Field Nano-imaging. Nano Letters, 2021, 21, 1688-1693.	9.1	13
359	Surface buckling of black phosphorus: Determination, origin, and influence on electronic structure. Physical Review Materials, 2017, 1, .	2.4	13
360	Electron-beam analysis of polymerized KC60. Physical Review B, 1996, 53, 8155-8156.	3.2	12

#	ARTICLE	IF	CITATIONS
361	Electrical transport measurements of nanotubes with known (n,m) indices. Physica Status Solidi (B): Basic Research, 2006, 243, 3359-3364.	1.5	12
362	1- to 2-nm-wide nanogaps fabricated with single-walled carbon nanotube shadow masks. Journal of Vacuum Science & Technology B, 2006, 24, 3213.	1.3	12
363	Exceptionally large migration length of carbon and topographically-facilitated self-limiting molecular beam epitaxial growth of graphene on hexagonal boron nitride. Carbon, 2017, 114, 579-584.	10.3	12
364	Multioperation Mode Light-Emitting Field-Effect Transistors Based on van der Waals Heterostructure. Advanced Materials, 2020, 32, e2003567.	21.0	12
365	Miniaturizing Transmon Qubits Using van der Waals Materials. Nano Letters, 2021, 21, 10122-10126.	9.1	12
366	In-Plane Anisotropy in Biaxial ReS_2 Crystals Probed by Nano-Optical Imaging of Waveguide Modes. ACS Photonics, 2022, 9, 443-451.	6.6	12
367	Coherent Four-Wave Mixing on Hybrid Graphene-Silicon Photonic Crystals. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 116-121.	2.9	11
368	Visualizing Individual Carbon Nanotubes with Optical Microscopy. Journal of the American Chemical Society, 2014, 136, 8536-8539.	13.7	11
369	Polymer chain orientations in KC60 and RbC60 : structural analysis and relation with electronic properties. Synthetic Metals, 1999, 103, 2354-2357.	3.9	10
370	All-optical structure assignment of individual single-walled carbon nanotubes from Rayleigh and Raman scattering measurements. Physica Status Solidi (B): Basic Research, 2012, 249, 2436-2441.	1.5	10
371	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	14.6	10
372	Electrothermal frequency tuning of a nano-resonator. Electronics Letters, 2006, 42, 1484.	1.0	9
373	Infrared spectra of individual semiconducting single-walled carbon nanotubes: Testing the scaling of transition energies for large diameter nanotubes. Physical Review B, 2010, 82, .	3.2	9
374	Excitonic signatures in the optical response of single-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 900-906.	1.5	9
375	Phase transition and electronic structure evolution of MoTe_2 induced by W substitution. Physical Review B, 2018, 98, .	3.2	9
376	Strong Metasurface Josephson Plasma Resonance Coupling in Superconducting $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Advanced Optical Materials, 2019, 7, 1900712.	7.3	9
377	Antiferromagnetic proximity coupling between semiconductor quantum emitters in WSe_2 and van der Waals ferromagnets. Nanoscale, 2021, 13, 832-841.	5.6	9
378	Analytical measurements of contact resistivity in two-dimensional WSe_2 field-effect transistors. 2D Materials, 2021, 8, 045019.	4.4	9

#	ARTICLE	IF	CITATIONS
379	Optical dispersion of valley-hybridised coherent excitons with momentum-dependent valley polarisation in monolayer semiconductor. 2D Materials, 2021, 8, 015009.	4.4	9
380	Nanoscale Optical Imaging of 2D Semiconductor Stacking Orders by Exciton-Enhanced Second Harmonic Generation. Advanced Optical Materials, 2022, 10, .	7.3	9
381	Transport and structural properties of polymerized AC 60 (A = K, Rb) under zero and high pressure conditions. Applied Physics A: Materials Science and Processing, 1997, 64, 263-269.	2.3	8
382	Hybrid carbon nanotube-silicon complementary metal oxide semiconductor circuits. Journal of Vacuum Science & Technology B, 2007, 25, 2577.	1.3	8
383	Looking inside cell walls. Nature Nanotechnology, 2007, 2, 140-141.	31.5	8
384	Electrothermal noise analysis in frequency tuning of nanoresonators. Solid-State Electronics, 2008, 52, 1388-1393.	1.4	8
385	Coupling Strongly, Discretely. Science, 2009, 325, 1084-1085.	12.6	8
386	Controlled Confinement of DNA at the Nanoscale: Nanofabrication and Surface Bio-Functionalization. Methods in Molecular Biology, 2011, 749, 169-185.	0.9	8
387	A transconductive graphene pressure sensor. , 2013, , .		8
388	Optical bistability and free carrier dynamics in graphene-silicon photonic crystal cavities. Optics Communications, 2014, 314, 23-27.	2.1	8
389	Universality of periodicity as revealed from interlayer-mediated cracks. Scientific Reports, 2017, 7, 43400.	3.3	8
390	Flexible 2D FETs using hBN dielectrics. , 2015, , .		7
391	Effect of vacuum thermal annealing to encapsulated graphene field effect transistors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 041805.	1.2	7
392	Bandwidth Limitation of Directly Contacted Graphene-Silicon Optoelectronics. ACS Applied Electronic Materials, 2019, 1, 172-178.	4.3	7
393	Ambipolar Memristive Phenomenon in Large-Scale, Few-Layered MoO_3 Recrystallized Films. Advanced Materials Interfaces, 2019, 6, 1801591.	3.7	7
394	Improving the Optical Quality of MoSe_2 and WS_2 Monolayers with Complete h-BN Encapsulation by High-Temperature Annealing. ACS Applied Materials & Interfaces, 2022, 14, 2255-2262.	8.0	7
395	Layer dependence of third-harmonic generation in thick multilayer graphene. Physical Review Materials, 2018, 2, .	2.4	6
396	Observation of plastic deformation in freestanding single crystal Au nanowires. Applied Physics Letters, 2006, 89, 111916.	3.3	5

#	ARTICLE	IF	CITATIONS
397	Gold-tipped elastomeric pillars for cellular mechanotransduction. Journal of Vacuum Science & Technology B, 2009, 27, 3088.	1.3	5
398	Carbon Nanotubes: Thermal Properties. , 2014, , 744-751.		5
399	Third-order intermodulation distortion in graphene resonant channel transistors. Applied Physics Letters, 2015, 106, 073504.	3.3	5
400	Electron-hole hybridization in bilayer graphene. National Science Review, 2020, 7, 248-253.	9.5	5
401	Focusâ€Tunable Planar Lenses by Controlled Carriers over Exciton. Advanced Optical Materials, 2021, 9, 2001526.	7.3	5
402	Phonon-Limited Mobility in h -BN Encapsulated A -Stacked Bilayer Graphene. Physical Review Letters, 2022, 128, .	7.8	5
403	Chemical Vapor-Deposited Graphene on Ultraflat Copper Foils for van der Waals Hetero-Assembly. ACS Omega, 2022, 7, 22626-22632.	3.5	5
404	Thermal Properties of Single-Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 1711.	0.1	4
405	Anisotropic electronic structure of orthorhombic RbC60: A high-field ESR investigation. Physical Review B, 2001, 63, .	3.2	4
406	NEMS applications of graphene. , 2009, , .		4
407	Reducing contact resistance of macro-scale separable electrical contacts with single-layer graphene coatings. , 2014, , .		4
408	A solid-gated graphene fet sensor for PH measurements. , 2015, , .		4
409	Mechanisms and criteria for failure in polycrystalline graphene. International Journal of Solids and Structures, 2018, 143, 232-244.	2.7	4
410	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal Td-MoTe2. Journal of the Physical Society of Japan, 2020, 89, 094707.	1.6	4
411	Stabilization of Chemical-Vapor-Deposition-Grown WS2 Monolayers at Elevated Temperature with Hexagonal Boron Nitride Encapsulation. ACS Applied Materials & Interfaces, 2021, 13, 31271-31278.	8.0	4
412	Ultrafast Ferroelectric Ordering on the Surface of a Topological Semimetal MoTe ₂ . Nano Letters, 2021, 21, 9903-9908.	9.1	4
413	Evaluation of 3C-SiC Nanomechanical Resonators Using Room Temperature Magnetomotive Transduction. , 0, , .		3
414	Adjacent assembly of self-assembled monolayers for the construction of selective bio-platforms. Sensors and Actuators B: Chemical, 2011, 159, 75-81.	7.8	3

#	ARTICLE	IF	CITATIONS
415	New approach for measuring protrusive forces in cells. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, 06FA02.	1.2	3
416	Noise Modeling of Graphene Resonant Channel Transistors. IEEE Transactions on Electron Devices, 2015, 62, 1276-1283.	3.0	3
417	Radiation hardened graphene field effect transistors. , 2016, , .		3
418	Andreev Reflections in NbN/Graphene Junctions under Large Magnetic Fields. Nano Letters, 2021, 21, 8229-8235.	9.1	3
419	Nonmonotonic Temperature-Dependent Dissipation at Nonequilibrium in Atomically Thin Clean-Limit Superconductors. Nano Letters, 2021, 21, 583-589.	9.1	3
420	Second-harmonic imaging microscopy for time-resolved investigations of transition metal dichalcogenides. Journal of Physics Condensed Matter, 2020, 32, 485901.	1.8	3
421	Giant electro-refractive modulation of monolayer WS ₂ embedded in photonic structures. , 2018, , .		3
422	Electrical Modulation of Exciton Complexes in Light-Emitting Tunnel Transistors of a van der Waals Heterostructure. ACS Photonics, 2021, 8, 3455-3461.	6.6	3
423	Is the ground state of. , 1999, , .		2
424	Growth of nanotubes and chemical sensor applications. , 2004, , .		2
425	Strongly correlated electron behavior in carbon nanotubes. EPJ Web of Conferences, 2012, 23, 00019.	0.3	2
426	Flexible graphene field-effect transistors for microwave electronics. , 2013, , .		2
427	Stress-enhanced chemical vapor deposited graphene NEMS RF resonators. , 2013, , .		2
428	Four-wave mixing in slow-light graphene-silicon photonic crystal waveguides. , 2014, , .		2
429	Low-power organic electronics based on gate-tunable injection barrier in vertical graphene-organic semiconductor heterostructures. , 2014, , .		2
430	Scattering strength of potassium on a carbon nanotube with known chirality. Physical Review B, 2016, 94, .	3.2	2
431	Optically facet-resolved reaction anisotropy in two-dimensional transition metal dichalcogenides. 2D Materials, 2021, 8, 035045.	4.4	2
432	Composite photonic platform based on 2D semiconductor monolayers. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
433	Nonlinear Interaction of Rydberg Exciton-Polaritons in Two-Dimensional WSe ₂ . , 2019, , .		2
434	Small-signal model for heterogeneous integrated graphene-silicon photonics. , 2018, , .		2
435	Making high-quality quantum microwave devices with van der Waals superconductors. Journal of Physics Condensed Matter, 2022, 34, 103001.	1.8	2
436	Utilization and Transport in Mediated Enzyme Electrodes with Multiscale Supports. ECS Transactions, 2006, 3, 1341-1350.	0.5	1
437	Growth of Carbon Nanotubes on Carbon Toray Paper for Bio-Fuel Cell Applications. , 2007, , 69.		1
438	Recovery of linear harmonic oscillation from nonlinear regime in nano-resonators. Electronics Letters, 2007, 43, 752.	1.0	1
439	Regenerative oscillation and four-wave mixing in graphene optoelectronics. , 2012, , .		1
440	Sarcomere-Like Units Contract Cell Edges. Biophysical Journal, 2013, 104, 477a-478a.	0.5	1
441	A graphene nanosensor for detection of small molecules. , 2014, , .		1
442	A large-scale NEMS light-emitting array based on CVD graphene (Conference Presentation). , 2017, , .		1
443	High-resolution optical micro-spectroscopy extending from the near-infrared to the vacuum-ultraviolet. Review of Scientific Instruments, 2020, 91, 073107.	1.3	1
444	Phonon-Polariton-Enhanced Nonlinearity in Hexagonal Boron Nitride. , 2020, , .		1
445	No Tilt Angle Dependence of Grain Boundary on Mechanical Strength of Chemically Deposited Graphene Film. Journal of the Korean Ceramic Society, 2019, 56, 506-512.	2.3	1
446	Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures. , 2019, , .		1
447	Platform for ultra-strong modulation in hybrid silicon nitride/2D material photonic structures. , 2020, , .		1
448	Electroluminescence of atoms in a graphene nanogap. Science Advances, 2022, 8, eabj1742.	10.3	1
449	Thermoelectric power and thermal conductivity of single-walled carbon nanotubes. , 1998, , .		0
450	Distinct polymer chain orientations in. , 1999, , .		0

#	ARTICLE	IF	CITATIONS
451	Manipulation of the transport properties of single-walled nanotubes by alkali intercalation and local charge transfer. , 1999, , .		0
452	Simultaneous determination of structure and optical transitions of individual single-walled carbon nanotubes. , 2006, , .		0
453	Raman scattering from individual, isolated metallic carbon nanotubes. , 2007, , .		0
454	Optical Studies of Individual Single-Walled Carbon Nanotubes under Axial Strain. , 2007, , .		0
455	Electrothermal tuning and SNR of nanoelectromechanical resonators. , 2007, , .		0
456	Optical studies of individual single-walled carbon nanotubes under axial strain. , 2007, , .		0
457	Microwave transmission loss in multi-walled nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 261-265.	1.8	0
458	Raman Spectroscopy of Graphene under Uniaxial Strain. , 2008, , .		0
459	Geometric Sensing in Cells - a Molecular Approach. Biophysical Journal, 2010, 98, 195a.	0.5	0
460	3-D Quantitative Microanatomy of Rat Kidney Podocytes as Determined by Serial Block-Face Scanning Electron Microscopy. , 2012, , .		0
461	T-Cell Receptor Activation Initiates Multiple Modes of Actin Polymerization within the Immune Synapse. Biophysical Journal, 2012, 102, 349a.	0.5	0
462	Electro-optical Modulation in Graphene Integrated Photonic Crystal Nanocavities. , 2013, , .		0
463	Lifetime measurements and blinking statistics of nonradiative energy transfer from single halide-terminated nanocrystals onto graphene. , 2013, , .		0
464	Optical Third-Harmonic Microscopy of Graphene. , 2013, , .		0
465	FHOD1 at Early Integrin Adhesions Drives Cell Spreading. Biophysical Journal, 2014, 106, 163a.	0.5	0
466	Contractile Forces During ECM Rigidity Sensing are Regulated by Tropomyosin-1. Biophysical Journal, 2014, 106, 576a.	0.5	0
467	Graphene opto-electronics and plasmonics for infrared frequencies. , 2015, , .		0
468	A molybdenum disulfide piezoelectric strain gauge. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
469	Photocurrent gain in graphene-silicon p-i-n junction. , 2015, , .		0
470	Ultrafast Graphene Photodetector for On-chip Broadband Auto-correlator. , 2015, , .		0
471	Real-time monitoring of insulin using a graphene aptameric nanosensor. , 2017, , .		0
472	Tungsten Disulfide Monolayers: Graphene-Assisted Antioxidation of Tungsten Disulfide Monolayers: Substrate and Electric-Field Effect (Adv. Mater. 18/2017). Advanced Materials, 2017, 29, .	21.0	0
473	Electrically-driven GHz range ultrafast graphene light emitter (Conference Presentation). , 2017, , .		0
474	Graphene Mechanical Properties. , 0, , 52-70.		0
475	Tunable mid-infrared biosensors based on graphene metasurfaces. , 2017, , .		0
476	Graphene-BN Heterostructures. , 0, , 219-237.		0
477	Active Metasurface Sensors for High Sensitivity Detection of the Concentration and Mid-Infrared Spectral Fingerprints of Biomolecules. , 2017, , .		0
478	Direct Optical Evidence of Free Excitons in a Monolayer Quantum Material and Effective-Mass Measurements. , 2019, , .		0
479	Atomic Layer Etching (ALE) of WSe2 Yielding High Mobility p-FETs. , 2019, , .		0
480	Manipulation of Exciton Dynamics and Annihilation in Single-Layer WSe2 using a Toroidal Dielectric Metasurface. , 2021, , .		0
481	Probing Interactions between Individual Carbon Nanotubes by Rayleigh Scattering Spectroscopy. , 2006, , .		0
482	Spectroscopy of the Electronic Transitions of Individual Carbon Nanotubes of Defined Crystal Structure. , 2006, , .		0
483	Probing the Mechanical Properties of Individual Single-Walled Carbon Nanotubes. , 2006, , .		0
484	Photonic and plasmonic guided modes in graphene-silicon photonic crystals. , 2016, , .		0
485	Layer-Dependent Third-Harmonic Generation in Multilayer Graphene. , 2016, , .		0
486	Cavity-Enhanced Narrowband Radiation of an Electrically Driven Graphene Light Emitter. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
487	The influence of the substrate material on the optical properties of tungsten diselenide monolayers. , 2017, , .		0
488	The influence of hBN on the pump-dependent time-evolution of monolayer photoluminescence in WSe ₂ . , 2018, , .		0
489	Single-molecule Thermometry by Carbon Nanotube Excitons Coupled to Plasmonic Nanocavities. , 2018, , .		0
490	Exciton Dynamics in WSe ₂ Monolayers for Different Stacking Schemes Involving h-BN. , 2018, , .		0
491	Density-dependent excitonic properties and dynamics in 2D heterostructures consisting of boron nitride and monolayer or few-layer tungsten diselenide. , 2018, , .		0
492	THz-Pump UED-Probe on a Topological Weyl Semimetal. , 2019, , .		0
493	Tuning the ellipticity of harmonics generated in graphene. , 2020, , .		0
494	Engineering Atomic Defects in Hexagonal Boron Nitride via Resonant Optical Excitation of Phonons. , 2020, , .		0
495	Integrated Graphene Electro-Optic Modulator on Si ₃ N ₄ with Increasing Bandwidth at Cryogenic Temperatures. , 2020, , .		0
496	Extremely Efficient Light-Exciton Interaction in a Monolayer WS ₂ van der Waals Heterostructure Cavity. , 2020, , .		0
497	Chlorine-mediated atomic layer deposition of HfO ₂ on graphene. Journal of Materials Chemistry C, 0, , .	5.5	0
498	Near-field nanoscopy of excitons and ultrafast interlayer dynamics in van der Waals crystals. , 2022, , .		0
499	Observation of Wigner cusps in a metallic carbon nanotube. Solid State Communications, 2022, 353, 114834.	1.9	0