Feng Wang

List of Publications by Year in Descending Order

216 papers	36,933 citations	79 h-index	192 g-index
241 ext. papers	42,859 ext. citations	15.7 avg, IF	7.24 L-index

#	Paper	IF	Citations
216	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice.. *Science*, **2022**, 375, 1295-1299	33.3	2
215	Measuring phonon dispersion at an interface. *Nature*, **2021**, 599, 399-403	50.4	6
214	Interlayer Interactions in 1D Van der Waals Moiré Superlattices. *Advanced Science*, **2021**, e2103460	13.6	5
213	Dynamic Tuning of Moiré Excitons in a WSe/WS Heterostructure via Mechanical Deformation. *Nano Letters*, **2021**, 21, 8910-8916	11.5	2
212	Imaging Quantum Interference in Stadium-Shaped Monolayer and Bilayer Graphene Quantum Dots. *Nano Letters*, **2021**, 21, 8993-8998	11.5	0
211	Nanoimaging of Low-Loss Plasmonic Waveguide Modes in a Graphene Nanoribbon. *Nano Letters*, **2021**, 21, 3106-3111	11.5	3
210	Thermally conductive ultra-low-k dielectric layers based on two-dimensional covalent organic frameworks. *Nature Materials*, **2021**, 20, 1142-1148	27	30
209	Visualizing delocalized correlated electronic states in twisted double bilayer graphene. *Nature Communications*, **2021**, 12, 2516	17.4	7
208	Graphene Electric Field Sensor Enables Single Shot Label-Free Imaging of Bioelectric Potentials. *Nano Letters*, **2021**, 21, 4944-4949	11.5	0
207	Anisotropic moiré optical transitions in twisted monolayer/bilayer phosphorene heterostructures. *Nature Communications*, **2021**, 12, 3947	17.4	9
206	Efficient Fizeau drag from Dirac electrons in monolayer graphene. *Nature*, **2021**, 594, 517-521	50.4	15
205	Visualization of the flat electronic band in twisted bilayer graphene near the magic angle twist. *Nature Physics*, **2021**, 17, 184-188	16.2	36
204	Imaging moiré flat bands in three-dimensional reconstructed WSe/WS superlattices. *Nature Materials*, **2021**, 20, 945-950	27	41
203	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. *Nature Nanotechnology*, **2021**, 16, 1073-1078	28.7	9
202	Gate-tunable plasmons in mixed-dimensional van der Waals heterostructures. *Nature Communications*, **2021**, 12, 5039	17.4	7
201	Visualizing electron localization of WS/WSe moiré superlattices in momentum space. *Science Advances*, **2021**, 7, eabf4387	14.3	4
200	Imaging two-dimensional generalized Wigner crystals. *Nature*, **2021**, 597, 650-654	50.4	19

199	Infrared Light-Emitting Devices from Antenna-Coupled Luttinger Liquid Plasmons In Carbon Nanotubes.. *Physical Review Letters*, **2021**, 127, 257702	7.4	1
198	Electronically Coupled 2D Polymer/MoS Heterostructures. *Journal of the American Chemical Society* , **2020**, 142, 21131-21139	16.4	8
197	Surface and grain boundary carbon heterogeneity in CH3NH3PbI3 perovskites and its impact on optoelectronic properties. *Applied Physics Reviews*, **2020**, 7, 041412	17.3	3
196	Ultrahigh-resolution scanning microwave impedance microscopy of moir lattices and superstructures. *Science Advances*, **2020**, 6,	14.3	11
195	Mott and generalized Wigner crystal states in WSe/WS moir superlattices. *Nature*, **2020**, 579, 359-363	50.4	212
194	Tunable Cherenkov Radiation of Phonon Polaritons in Silver Nanowire/Hexagonal Boron Nitride Heterostructures. *Nano Letters*, **2020**, 20, 2770-2777	11.5	10
193	Nonlinear Luttinger liquid plasmons in semiconducting single-walled carbon nanotubes. *Nature Materials*, **2020**, 19, 986-991	27	17
192	Metallic Carbon Nanotube Nanocavities as Ultracompact and Low-loss Fabry-Perot Plasmonic Resonators. *Nano Letters*, **2020**, 20, 2695-2702	11.5	8
191	Tunable correlated Chern insulator and ferromagnetism in a moir superlattice. *Nature*, **2020**, 579, 56-61	50.4	215
190	Soliton-Dependent Electronic Transport across Bilayer Graphene Domain Wall. *Nano Letters*, **2020**, 20, 5936-5942	11.5	4
189	Highly Enhanced Curie Temperature in Ga-Implanted Fe3GeTe2 van der Waals Material. *Advanced Quantum Technologies*, **2020**, 3, 2000017	4.3	17
188	High yield growth and doping of black phosphorus with tunable electronic properties. *Materials Today*, **2020**, 36, 91-101	21.8	33
187	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. *Nature Communications*, **2020**, 11, 546	17.4	25
186	Reversible writing of high-mobility and high-carrier-density doping patterns in two-dimensional van der Waals heterostructures. *Nature Electronics*, **2020**, 3, 99-105	28.4	32
185	Global Control of Stacking-Order Phase Transition by Doping and Electric Field in Few-Layer Graphene. *Nano Letters*, **2020**, 20, 3106-3112	11.5	17
184	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. *Nano Letters*, **2020**, 20, 1124-1130	11.5	11
183	Perfect Absorption by an Atomically Thin Crystal. *Physical Review Applied*, **2020**, 14,	4.3	14
182	Tunneling Spectroscopy in Carbon Nanotube-Hexagonal Boron Nitride-Carbon Nanotube Heterojunctions. *Nano Letters*, **2020**, 20, 6712-6718	11.5	5

181	Nanoscale Conductivity Imaging of Correlated Electronic States in WSe_{2}/WS_{2} Moir Superlattices. *Physical Review Letters*, **2020**, 125, 186803	7.4	14
180	Creation of skyrmions in van der Waals ferromagnet FeGeTe on (Co/Pd) superlattice. *Science Advances*, **2020**, 6,	14.3	30
179	Identification of spin, valley and moir quasi-angular momentum of interlayer excitons. *Nature Physics*, **2019**, 15, 1140-1144	16.2	55
178	Evidence of a gate-tunable Mott insulator in a trilayer graphene moir superlattice. *Nature Physics*, **2019**, 15, 237-241	16.2	274
177	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. *Nature Communications*, **2019**, 10, 1811	17.4	55
176	Quantum-critical conductivity of the Dirac fluid in graphene. *Science*, **2019**, 364, 158-162	33.3	43
175	Logarithm Diameter Scaling and Carrier Density Independence of One-Dimensional Luttinger Liquid Plasmon. *Nano Letters*, **2019**, 19, 2360-2365	11.5	11
174	Strongly coupled van der Waals heterostructures for high-performance infrared phototransistor. *Applied Physics Letters*, **2019**, 114, 103501	3.4	14
173	Tunneling of two-dimensional surface polaritons through nanogaps in atomically thin crystals. *Physical Review B*, **2019**, 99,	3.3	3
172	Layer-Dependent Electronic Structure of Atomically Resolved Two-Dimensional Gallium Selenide Telluride. *Nano Letters*, **2019**, 19, 1782-1787	11.5	9
171	A dielectric-defined lateral heterojunction in a monolayer semiconductor. *Nature Electronics*, **2019**, 2, 60-65	28.4	53
170	Observation of moir excitons in WSe/WS heterostructure superlattices. *Nature*, **2019**, 567, 76-80	50.4	459
169	Recent Progress in CVD Growth of 2D Transition Metal Dichalcogenides and Related Heterostructures. *Advanced Materials*, **2019**, 31, e1901694	24	131
168	Graphene photonic crystal fibre with strong and tunable light matter interaction. *Nature Photonics*, **2019**, 13, 754-759	33.9	69
167	Valley-dependent exciton fine structure and Autler-Townes doublets from Berry phases in monolayer MoSe. *Nature Materials*, **2019**, 18, 1065-1070	27	18
166	Signatures of tunable superconductivity in a trilayer graphene moir superlattice. *Nature*, **2019**, 572, 215-219	50.4	264
165	Manipulating Topological Domain Boundaries in the Single-Layer Quantum Spin Hall Insulator 1TPWSe. *Nano Letters*, **2019**, 19, 5634-5639	11.5	18
164	Phonon Polariton-assisted Infrared Nanoimaging of Local Strain in Hexagonal Boron Nitride. *Nano Letters*, **2019**, 19, 1982-1989	11.5	30

163	Gate-Tunable Topological Flat Bands in Trilayer Graphene Boron-Nitride Moiré Superlattices. *Physical Review Letters*, **2019**, 122, 016401	7.4	82
162	Self-supported Ni3S2@MoS2 core/shell nanorod arrays via decoration with CoS as a highly active and efficient electrocatalyst for hydrogen evolution and oxygen evolution reactions. *International Journal of Hydrogen Energy*, **2018**, 43, 8794-8804	6.7	31
161	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. *CheM*, **2018**, 4, 308-317	16.2	227
160	Manipulation of domain-wall solitons in bi- and trilayer graphene. *Nature Nanotechnology*, **2018**, 13, 204-208	28.7	44
159	Reconfiguring crystal and electronic structures of MoS by substitutional doping. *Nature Communications*, **2018**, 9, 199	17.4	85
158	Enhanced photo-assistant electrocatalysis of anodization TiO 2 nanotubes via surrounded surface decoration with MoS 2 for hydrogen evolution reaction. *Applied Surface Science*, **2018**, 433, 197-205	6.7	12
157	Biexcitonic optical Stark effects in monolayer molybdenum diselenide. *Nature Physics*, **2018**, 14, 1092-1096	19.2	24
156	Mid-IR broadband supercontinuum generation from a suspended silicon waveguide. *Optics Letters*, **2018**, 43, 1387-1390	3	19
155	Visualization and Control of Single-Electron Charging in Bilayer Graphene Quantum Dots. *Nano Letters*, **2018**, 18, 5104-5110	11.5	27
154	Correlation of Electron Tunneling and Plasmon Propagation in a Luttinger Liquid. *Physical Review Letters*, **2018**, 121, 047702	7.4	13
153	New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. *Advanced Functional Materials*, **2018**, 28, 1802151	15.6	125
152	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. *Chemical Society Reviews*, **2018**, 47, 6296-6341	58.5	145
151	The role of momentum-dark excitons in the elementary optical response of bilayer WSe. *Nature Communications*, **2018**, 9, 2586	17.4	41
150	Patterning-Induced Ferromagnetism of FeGeTe van der Waals Materials beyond Room Temperature. *Nano Letters*, **2018**, 18, 5974-5980	11.5	101
149	Measurement of complex optical susceptibility for individual carbon nanotubes by elliptically polarized light excitation. *Nature Communications*, **2018**, 9, 3387	17.4	13
148	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe. *Nature Communications*, **2018**, 9, 3401	17.4	68
147	Ultrafast dynamics in van der Waals heterostructures. *Nature Nanotechnology*, **2018**, 13, 994-1003	28.7	216
146	Imaging of pure spin-valley diffusion current in WS-WSe heterostructures. *Science*, **2018**, 360, 893-896	33.3	100

145	Goos-Hänchen Shift and Even-Odd Peak Oscillations in Edge-Reflections of Surface Polaritons in Atomically Thin Crystals. *Nano Letters*, **2017**, 17, 1768-1774	11.5	34
144	Interfacial Engineering of Van der Waals Coupled 2D Layered Materials. *Advanced Materials Interfaces*, **2017**, 4, 1601054	4.6	18
143	Coupled One-Dimensional Plasmons and Two-Dimensional Phonon Polaritons in Hybrid Silver Nanowire/Silicon Carbide Structures. *Nano Letters*, **2017**, 17, 3662-3667	11.5	9
142	High-Throughput Optical Imaging and Spectroscopy of One-Dimensional Materials. *Chemistry - A European Journal*, **2017**, 23, 9703-9710	4.8	
141	Dendritic growth of monolayer ternary WSSe flakes for enhanced hydrogen evolution reaction. *Nanoscale*, **2017**, 9, 5641-5647	7.7	27
140	One-pot synthesis of MoS2/WS2 ultrathin nanoflakes with vertically aligned structure on indium tin oxide as a photocathode for enhanced photo-assistant electrochemical hydrogen evolution reaction. *RSC Advances*, **2017**, 7, 49309-49319	3.7	24
139	Observation of ultralong valley lifetime in WSe/MoS heterostructures. *Science Advances*, **2017**, 3, e1700518	11.3	160
138	Strain-Modulated Bandgap and Piezo-Resistive Effect in Black Phosphorus Field-Effect Transistors. *Nano Letters*, **2017**, 17, 6097-6103	11.5	88
137	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. *Nano Energy*, **2017**, 40, 673-680	17.1	71
136	Tunable excitons in bilayer graphene. *Science*, **2017**, 358, 907-910	33.3	89
135	Electron dynamics and optical properties modulation of monolayer MoS2 by femtosecond laser pulse: a simulation using time-dependent density functional theory. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	1
134	Apparent breakdown of Raman selection rule at valley exciton resonances in monolayer MoS2. *Physical Review B*, **2017**, 95,	3.3	26
133	Nature of the effective interaction in electron-doped cuprate superconductors: A sign-problem-free quantum Monte Carlo study. *Physical Review B*, **2017**, 95,	3.3	19
132	Interlayer electron–phonon coupling in WSe2/hBN heterostructures. *Nature Physics*, **2017**, 13, 127-131	16.2	129
131	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe2. *Advanced Functional Materials*, **2017**, 27, 1601741	15.6	31
130	Direct observation of the layer-dependent electronic structure in phosphorene. *Nature Nanotechnology*, **2017**, 12, 21-25	28.7	473
129	Optical Properties of Graphene **2017**,		7
128	Synthesis, properties and applications of 2D layered MX (M = Ga, In; X = S, Se, Te) materials. *Nanoscale*, **2016**, 8, 16802-16818	7.7	100

127	Toward High-Performance Top-Gate Ultrathin HfS2 Field-Effect Transistors by Interface Engineering. *Small*, **2016**, 12, 3106-11	11	42
126	Imaging electrostatically confined Dirac fermions in graphene quantum dots. *Nature Physics*, **2016**, 12, 1032-1036	16.2	131
125	Soliton-dependent plasmon reflection at bilayer graphene domain´walls. *Nature Materials*, **2016**, 15, 840-47	27	92
124	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe2 Thin Films. *Nano Letters*, **2016**, 16, 2485-91	11.5	111
123	Nanoscale Control of Rewriteable Doping Patterns in Pristine Graphene/Boron Nitride Heterostructures. *Nano Letters*, **2016**, 16, 1620-5	11.5	42
122	Isolating Exciton Extraction Pathways with Electric Field-Dependent Ultrafast Photocurrent Microscopy **2016**,		1
121	Surface-normal electro-optic spatial light modulator using graphene integrated on a high-contrast grating resonator. *Optics Express*, **2016**, 24, 26035-26043	3.3	30
120	Configuration-Dependent Electrically Tunable Van der Waals Heterostructures Based on MoTe2/MoS2. *Advanced Functional Materials*, **2016**, 26, 5499-5506	15.6	68
119	Imaging electric field dynamics with graphene optoelectronics. *Nature Communications*, **2016**, 7, 13704	17.4	11
118	Optical modulators with 2D layered materials. *Nature Photonics*, **2016**, 10, 227-238	33.9	910
117	Structure□property relations in individual carbon nanotubes [Invited]. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, C102	1.7	4
116	Charge density wave order in 1D mirror twin boundaries of single-layer MoSe2. *Nature Physics*, **2016**, 12, 751-756	16.2	156
115	Hybrid Graphene□iant Nanocrystal Quantum Dot Assemblies with Highly Efficient Biexciton Emission. *Advanced Optical Materials*, **2015**, 3, 39-43	8.1	19
114	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. *ACS Photonics*, **2015**, 2, 790-796	6.3	102
113	Vibrational spectroscopy at electrolyte/electrode interfaces with graphene gratings. *Nature Communications*, **2015**, 6, 7593	17.4	14
112	Observation of a Luttinger-liquid plasmon in metallic single-walled carbon nanotubes. *Nature Photonics*, **2015**, 9, 515-519	33.9	90
111	Synthesis, properties and applications of 2D non-graphene materials. *Nanotechnology*, **2015**, 26, 292001	3.4	82
110	Topological valley transport at bilayer graphene domain walls. *Nature*, **2015**, 520, 650-5	50.4	364

109	Tunable dark modes in one-dimensional "diatomic" dielectric gratings. *Optics Express*, **2015**, 23, 12478-87	3.3	11
108	Tunable GaTe-MoS2 van der Waals p-n Junctions with Novel Optoelectronic Performance. *Nano Letters*, **2015**, 15, 7558-66	11.5	303
107	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. *Nature Nanotechnology*, **2015**, 10, 949-53	28.7	148
106	Direct Growth of Single- and Few-Layer MoS2 on h-BN with Preferred Relative Rotation Angles. *Nano Letters*, **2015**, 15, 6324-31	11.5	152
105	Sulfur vacancy activated field effect transistors based on ReS2 nanosheets. *Nanoscale*, **2015**, 7, 15757-62	7.7	36
104	Polymer Adsorption on Graphite and CVD Graphene Surfaces Studied by Surface-Specific Vibrational Spectroscopy. *Nano Letters*, **2015**, 15, 6501-5	11.5	33
103	Evidence for bandgap opening in buckled epitaxial graphene from ultrafast time-resolved terahertz spectroscopy. *Applied Physics Letters*, **2015**, 107, 173107	3.4	5
102	Fabrication of Gate-tunable Graphene Devices for Scanning Tunneling Microscopy Studies with Coulomb Impurities. *Journal of Visualized Experiments*, **2015**, e52711	1.6	6
101	Optimizing broadband terahertz modulation with hybrid graphene/metasurface structures. *Nano Letters*, **2015**, 15, 372-7	11.5	83
100	Controlling graphene ultrafast hot carrier response from metal-like to semiconductor-like by electrostatic gating. *Nano Letters*, **2014**, 14, 1578-82	11.5	105
99	Probing the plasmonic band structure of an optical metamaterial. *Physical Review B*, **2014**, 89,	3.3	2
98	Three-dimensional spirals of atomic layered MoS2. *Nano Letters*, **2014**, 14, 6418-23	11.5	136
97	Switching individual quantum dot emission through electrically controlling resonant energy transfer to graphene. *Nano Letters*, **2014**, 14, 7115-9	11.5	36
96	Large Hexagonal Bi- and Trilayer Graphene Single Crystals with Varied Interlayer Rotations. *Angewandte Chemie*, **2014**, 126, 1591-1595	3.6	24
95	Two-dimensional materials: Atomically thin p-n junctions. *Nature Nanotechnology*, **2014**, 9, 664-5	28.7	18
94	Growth of high-density-aligned and semiconducting-enriched single-walled carbon nanotubes: decoupling the conflict between density and selectivity. *ACS Nano*, **2014**, 8, 554-62	16.7	58
93	Colloquium: Graphene spectroscopy. *Reviews of Modern Physics*, **2014**, 86, 959-994	40.5	184
92	Probing local strain at MX(2)-metal boundaries with surface plasmon-enhanced Raman scattering. *Nano Letters*, **2014**, 14, 5329-34	11.5	87

91	Observation of an intrinsic bandgap and Landau level renormalization in graphene/boron-nitride heterostructures. *Nature Communications*, **2014**, 5, 4461	17.4	122
90	Gate-dependent pseudospin mixing in graphene/boron nitride moiré superlattices. *Nature Physics*, **2014**, 10, 743-747	16.2	53
89	Ultrafast charge transfer in atomically thin MoS_2/WS_2 heterostructures. *Nature Nanotechnology*, **2014**, 9, 682-6	28.7	1432
88	Van der Waals-coupled electronic states in incommensurate double-walled carbon nanotubes. *Nature Physics*, **2014**, 10, 737-742	16.2	50
87	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. *Nature Materials*, **2014**, 13, 1091-5	27	1150
86	Evolution of interlayer coupling in twisted molybdenum disulfide bilayers. *Nature Communications*, **2014**, 5, 4966	17.4	410
85	Large hexagonal bi- and trilayer graphene single crystals with varied interlayer rotations. *Angewandte Chemie - International Edition*, **2014**, 53, 1565-9	16.4	63
84	Importance of diameter control on selective synthesis of semiconducting single-walled carbon nanotubes. *ACS Nano*, **2014**, 8, 8564-72	16.7	37
83	Photoinduced doping in heterostructures of graphene and boron nitride. *Nature Nanotechnology*, **2014**, 9, 348-52	28.7	221
82	Graphene Bragg gratings on microfiber. *Optics Express*, **2014**, 22, 23829-35	3.3	17
81	Systematic determination of absolute absorption cross-section of individual carbon nanotubes. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7564-9	11.5	59
80	Ultrafast generation of pseudo-magnetic field for valley excitons in WSe_2 monolayers. *Science*, **2014**, 346, 1205-8	33.3	192
79	Graphene for Tunable Nanophotonic Resonators. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 68-71	3.8	17
78	Optical Spectroscopy of Graphene/Boron Nitride Hetrostructures **2014**,		1
77	High-throughput optical imaging and spectroscopy of individual carbon nanotubes in devices. *Nature Nanotechnology*, **2013**, 8, 917-22	28.7	80
76	Infrared spectroscopy of molecular submonolayers on surfaces by infrared scanning tunneling microscopy: tetramantane on Au111. *Physical Review Letters*, **2013**, 111, 126101	7.4	14
75	In-Situ XAS Investigation of the Effect of Electrochemical Reactions on the Structure of Graphene in Aqueous Electrolytes. *Journal of the Electrochemical Society*, **2013**, 160, C445-C450	3.9	20
74	Electrical control of silicon photonic crystal cavity by graphene. *Nano Letters*, **2013**, 13, 515-8	11.5	162

73	Quantum-coupled radial-breathing oscillations in double-walled carbon nanotubes. *Nature Communications*, **2013**, 4, 1375	17.4	52
72	Intermolecular interactions and substrate effects for an adamantane monolayer on a Au(111) surface. *Physical Review B*, **2013**, 88,	3.3	4
71	Polymer-free, low tension graphene mechanical resonators. *Physica Status Solidi - Rapid Research Letters*, **2013**, 7, 1064-1066	2.5	5
70	Electrical control of optical plasmon resonance with graphene. *Nano Letters*, **2012**, 12, 5598-602	11.5	224
69	Optical spectroscopy of graphene: From the far infrared to the ultraviolet. *Solid State Communications*, **2012**, 152, 1341-1349	1.6	485
68	Hot phonon dynamics in graphene. *Nano Letters*, **2012**, 12, 5495-9	11.5	49
67	Screening-engineered field-effect solar cells. *Nano Letters*, **2012**, 12, 4300-4	11.5	44
66	An atlas of carbon nanotube optical transitions. *Nature Nanotechnology*, **2012**, 7, 325-9	28.7	154
65	Plasmonic percolation: plasmon-manifested dielectric-to-metal transition. *ACS Nano*, **2012**, 6, 7162-71	16.7	76
64	Direct synthesis of self-aligned single-walled carbon nanotubes on paper. *Carbon*, **2012**, 50, 1179-1185	10.4	5
63	Broadly tunable mode-hop-free mid-infrared light source with MgO:PPLN continuous-wave optical parametric oscillator. *Optics Letters*, **2012**, 37, 4982-4	3	14
62	Infrared conductivity of hole accumulation and depletion layers in (Ga,Mn)As- and (Ga,Be)As-based electric field-effect devices. *Physical Review B*, **2012**, 86,	3.3	8
61	Effect of gadolinium adatoms on the transport properties of graphene. *Physical Review B*, **2012**, 86,	3.3	12
60	Absorption spectroscopy of individual cadmium selenide nanowire. *Applied Physics Letters*, **2012**, 101, 093106	3.4	3
59	Graphene optical modulator **2011**,		3
58	Drude conductivity of Dirac fermions in graphene. *Physical Review B*, **2011**, 83,	3.3	376
57	Intrinsic optical properties of vanadium dioxide near the insulator-metal transition. *Nano Letters*, **2011**, 11, 466-70	11.5	72
56	Single-molecule studies of transcription: from one RNA polymerase at a time to the gene expression profile of a cell. *Journal of Molecular Biology*, **2011**, 412, 814-31	6.5	20

55	Controlling inelastic light scattering quantum pathways in graphene. *Nature*, **2011**, 471, 617-20	50.4	422
54	A graphene-based broadband optical modulator. *Nature*, **2011**, 474, 64-7	50.4	2385
53	Graphene plasmonics for tunable terahertz metamaterials. *Nature Nanotechnology*, **2011**, 6, 630-4	28.7	2094
52	Intrinsic radial breathing oscillation in suspended single-walled carbon nanotubes. *Physical Review B*, **2011**, 83,	3.3	32
51	A tunable phonon-exciton Fano system in bilayer graphene. *Nature Nanotechnology*, **2010**, 5, 32-6	28.7	126
50	The interaction of Li+ with single-layer and few-layer graphene. *Nano Letters*, **2010**, 10, 3386-8	11.5	286
49	Emerging photoluminescence in monolayer MoS2. *Nano Letters*, **2010**, 10, 1271-5	11.5	6474
48	A direct transfer of layer-area graphene. *Applied Physics Letters*, **2010**, 96, 113102	3.4	300
47	Transfer-free batch fabrication of large-area suspended graphene membranes. *ACS Nano*, **2010**, 4, 4762-8	26.7	90
46	Nonlinear broadband photoluminescence of graphene induced by femtosecond laser irradiation. *Physical Review B*, **2010**, 82,	3.3	95
45	High-temperature stability of suspended single-layer graphene. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 302-304	2.5	80
44	Optical spectroscopy of bilayer graphene. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2931-2934	1.3	3
43	Instability of two-dimensional graphene: Breaking sp2 bonds with soft x rays. *Physical Review B*, **2009**, 80,	3.3	38
42	Measurement of the optical Stark effect in semiconducting carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **2009**, 96, 283-287	2.6	23
41	Direct observation of a widely tunable bandgap in bilayer graphene. *Nature*, **2009**, 459, 820-3	50.4	2751
40	Conduction at domain walls in oxide multiferroics. *Nature Materials*, **2009**, 8, 229-34	27	1048
39	Ultrafast modulation of optical metamaterials. *Optics Express*, **2009**, 17, 17652-7	3.3	52
38	Wideband-tuneable, nanotube mode-locked, fibre laser. *Nature Nanotechnology*, **2008**, 3, 738-42	28.7	498

37	Giant phonon-induced conductance in scanning tunnelling spectroscopy of gate-tunable graphene. *Nature Physics*, **2008**, 4, 627-630	16.2	353
36	Gate-variable optical transitions in graphene. *Science*, **2008**, 320, 206-9	33.3	1215
35	Contribution of the electric quadrupole resonance in optical metamaterials. *Physical Review B*, **2008**, 78,	3.3	65
34	Determination of the young? modulus of structurally defined carbon nanotubes. *Nano Letters*, **2008**, 8, 4158-61	11.5	70
33	Nonlinear optical spectroscopy of photonic metamaterials. *Physical Review B*, **2008**, 78,	3.3	74
32	Direct measurement of the lifetime of optical phonons in single-walled carbon nanotubes. *Physical Review Letters*, **2008**, 100, 225503	7.4	77
31	Observation of excitons in one-dimensional metallic single-walled carbon nanotubes. *Physical Review Letters*, **2007**, 99, 227401	7.4	124
30	Observation of the Optical Stark Effect in Semiconducting Carbon Nanotubes. *Springer Series in Chemical Physics*, **2007**, 674-676	0.3	
29	Auger Recombination of Excitons in Semiconducting Carbon Nanotubes. *Springer Series in Chemical Physics*, **2007**, 683-685	0.3	
28	Carbon nanotubes for ultrafast photonics. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 4303-4307	1.3	24
27	Multiphonon Raman scattering from individual single-walled carbon nanotubes. *Physical Review Letters*, **2007**, 98, 047402	7.4	18
26	Optical spectroscopy of individual single-walled carbon nanotubes of defined chiral structure. *Science*, **2006**, 312, 554-6	33.3	208
25	Auger recombination of excitons in one-dimensional systems. *Physical Review B*, **2006**, 73,	3.3	87
24	Interactions between individual carbon nanotubes studied by Rayleigh scattering spectroscopy. *Physical Review Letters*, **2006**, 96, 167401	7.4	109
23	Direct observation of electron-to-hole energy transfer in CdSe quantum dots. *Physical Review Letters*, **2006**, 96, 057408	7.4	182
22	Nature and Dynamics of the Excited States in Single-Walled Carbon Nanotubes **2006**, MH12		
21	Exciton polarizability in semiconductor nanocrystals. *Nature Materials*, **2006**, 5, 861-4	27	114
20	General properties of local plasmons in metal nanostructures. *Physical Review Letters*, **2006**, 97, 206806	7.4	368

19	The optical resonances in carbon nanotubes arise from excitons. *Science*, **2005**, 308, 838-41	33.3	1009
18	Structural dependence of excitonic optical transitions and band-gap energies in carbon nanotubes. *Nano Letters*, **2005**, 5, 2314-8	11.5	211
17	Extracting subnanometer single shells from ultralong multiwalled carbon nanotubes. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14155-8	11.5	59
16	Ultrafast scattering of electrons in TiO2 **2004**, 517-520		2
15	Electron transport in TiO2 probed by THz time-domain spectroscopy. *Physical Review B*, **2004**, 69,	3.3	183
14	Observation of rapid Auger recombination in optically excited semiconducting carbon nanotubes. *Physical Review B*, **2004**, 70,	3.3	166
13	Real-space observation of molecular motion induced by femtosecond laser pulses. *Science*, **2004**, 305, 648-51	33.3	120
12	Conductivity of solvated electrons in hexane investigated with terahertz time-domain spectroscopy. *Journal of Chemical Physics*, **2004**, 121, 394-404	3.9	45
11	Reversible surface oxidation and efficient luminescence quenching in semiconductor single-wall carbon nanotubes. *Journal of the American Chemical Society*, **2004**, 126, 15269-76	16.4	216
10	Time-resolved fluorescence of carbon nanotubes and its implication for radiative lifetimes. *Physical Review Letters*, **2004**, 92, 177401	7.4	269
9	Probing electronic transitions in individual carbon nanotubes by Rayleigh scattering. *Science*, **2004**, 306, 1540-3	33.3	200
8	Electronic charge transport in sapphire studied by optical-pump/THz-probe spectroscopy **2004**,		6
7	Measurement of the frequency-dependent conductivity in sapphire. *Physical Review Letters*, **2003**, 90, 247401	7.4	54
6	Transient Conductivity in Single-Crystal Al2O3 Probed by THz Time-Domain Spectroscopy. *Springer Series in Chemical Physics*, **2003**, 262-264	0.3	
5	Schwinger-Boson approach to the two-dimensional antiferromagnetic Heisenberg model beyond the mean-field approximation. *Physical Review B*, **2000**, 61, 3508-3512	3.3	2
4	Optical Properties of Graphene38-51		3
3	Evidence for quantum spin liquid behaviour in single-layer 1T-TaSe2 from scanning tunnelling microscopy. *Nature Physics*,	16.2	13
2	Imaging local discharge cascades for correlated electrons in WS2/WSe2 moir superlattices. *Nature Physics*,	16.2	7

1 Emerging exciton physics in transition metal dichalcogenide heterobilayers. *Nature Reviews Materials*, 73·3 7