

Tony F Heinz

List of Publications by Year in descending order

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322
papers

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citations

944

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327
all docs

327
docs citations

327
times ranked

49888
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitons in strained and suspended monolayer WSe ₂ . 2D Materials, 2022, 9, 015002.	2.0	15
2	Ultrahigh-Quality Infrared Polaritonic Resonators Based on Bottom-Up-Synthesized van der Waals Nanoribbons. ACS Nano, 2022, 16, 3027-3035.	7.3	20
3	Structure of the moiré exciton captured by imaging its electron and hole. Nature, 2022, 603, 247-252.	13.7	51
4	Visible Out-of-plane Polarized Luminescence and Electronic Resonance in Black Phosphorus. Nano Letters, 2022, , .	4.5	5
5	Optical absorption of interlayer excitons in transition-metal dichalcogenide heterostructures. Science, 2022, 376, 406-410.	6.0	42
6	Carrier-specific dynamics in 2H-MoTe ₂ observed by femtosecond soft x-ray absorption spectroscopy using an x-ray free-electron laser. Structural Dynamics, 2021, 8, 014501.	0.9	14
7	Time-resolved ARPES of excitons in a 2D semiconductor. , 2021, , .		0
8	Site-Controlled Quantum Emitters in Monolayer MoSe ₂ . Nano Letters, 2021, 21, 2376-2381.	4.5	37
9	Tuning electrical and interfacial thermal properties of bilayer MoS ₂ via electrochemical intercalation. Nanotechnology, 2021, 32, 265202.	1.3	3
10	Enhanced nonlinear interaction of polaritons via excitonic Rydberg states in monolayer WSe ₂ . Nature Communications, 2021, 12, 2269.	5.8	55
11	Experimental measurement of the intrinsic excitonic wave function. Science Advances, 2021, 7, .	4.7	49
12	High-Performance p-n Junction Transition Metal Dichalcogenide Photovoltaic Cells Enabled by MoO _x Doping and Passivation. Nano Letters, 2021, 21, 3443-3450.	4.5	35
13	Signatures of moiré trions in WSe ₂ /MoSe ₂ heterobilayers. Nature, 2021, 594, 46-50.	13.7	77
14	Ultrafast Adsorbate Excitation Probed with Subpicosecond-Resolution X-Ray Absorption Spectroscopy. Physical Review Letters, 2021, 127, 016802.	2.9	11
15	Light Absorption and Emission Dominated by Trions in the Type-I van der Waals Heterostructures. ACS Photonics, 2021, 8, 1972-1978.	3.2	10
16	Polarization Flipping of Even-Order Harmonics in Monolayer Transition-Metal Dichalcogenides. Ultrafast Science, 2021, 2021, .	5.8	34
17	Hot carrier transport limits the displacive excitation of coherent phonons in bismuth. Applied Physics Letters, 2021, 119, .	1.5	3
18	The effect of photo-carrier doping on the generation of high harmonics from MoS ₂ . , 2021, , .		0

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19	All-Optical Probe of Three-Dimensional Topological Insulators Based on High-Harmonic Generation by Circularly Polarized Laser Fields. <i>Nano Letters</i> , 2021, 21, 8970-8978.	4.5	59
20	High-resolution optical micro-spectroscopy extending from the near-infrared to the vacuum-ultraviolet. <i>Review of Scientific Instruments</i> , 2020, 91, 073107.	0.6	1
21	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. <i>Science</i> , 2020, 370, 1199-1204.	6.0	149
22	Thermal Boundary Conductance: Visualizing Energy Transfer at Buried Interfaces in Layered Materials Using Picosecond X-rays (Adv. Funct. Mater. 34/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070232.	7.8	1
23	Strained bilayer WSe ₂ with reduced exciton-phonon coupling. <i>Physical Review B</i> , 2020, 101, .	1.1	24
24	Visualizing Energy Transfer at Buried Interfaces in Layered Materials Using Picosecond X-rays. <i>Advanced Functional Materials</i> , 2020, 30, 2002282.	7.8	11
25	Revealing multiple classes of stable quantum emitters in hexagonal boron nitride with correlated optical and electron microscopy. <i>Nature Materials</i> , 2020, 19, 534-539.	13.3	130
26	Retarded Charge-Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. <i>Advanced Energy Materials</i> , 2020, 10, 2000570.	10.2	40
27	Strain-Tuned Optical Spectroscopy on 2D Materials. , 2020, , .		0
28	Time-resolved ARPES of excitons in an atomically thin semiconductor. , 2020, , .		0
29	Tunable infrared light emission from MoS ₂ /WSe ₂ heterostructures. , 2020, , .		0
30	Dielectric disorder in two-dimensional materials. <i>Nature Nanotechnology</i> , 2019, 14, 832-837.	15.6	223
31	Rigid Band Shifts in Two-Dimensional Semiconductors through External Dielectric Screening. <i>Physical Review Letters</i> , 2019, 123, 206403.	2.9	65
32	Zeeman-Induced Valley-Sensitive Photocurrent in Monolayer MoS_2 . <i>Physical Review Letters</i> , 2019, 122, 127401.	2.9	27
33	Anisotropic structural dynamics of monolayer crystals revealed by femtosecond surface X-ray scattering. <i>Nature Photonics</i> , 2019, 13, 425-430.	15.6	28
34	Recording interfacial currents on the subnanometer length and femtosecond time scale by terahertz emission. <i>Science Advances</i> , 2019, 5, eaau0073.	4.7	50
35	Infrared Interlayer Exciton Emission in MoS_2 Heterostructures. <i>Physical Review Letters</i> , 2019, 123, 247402.	2.9	10
36	Spatial Separation of Carrier Spin by the Valley Hall Effect in Monolayer WSe ₂ Transistors. <i>Nano Letters</i> , 2019, 19, 770-774.	4.5	31

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37	Nonlinear Interaction of Rydberg Exciton-Polaritons in Two-Dimensional WSe ₂ . , 2019, , .		2
38	Disentangling interface and bulk contributions to high-harmonic emission from solids. Optica, 2019, 6, 553.	4.8	11
39	Two-dimensional models for the optical response of thin films. 2D Materials, 2018, 5, 025021.	2.0	51
40	<i>Colloquium</i> : Excitons in atomically thin transition metal dichalcogenides. Reviews of Modern Physics, 2018, 90, .	16.4	1,292
41	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	4.5	109
42	Nanoscale Heterogeneities in Monolayer MoSe ₂ Revealed by Correlated Scanning Probe Microscopy and Tip-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2018, 1, 572-579.	2.4	45
43	Electrical transport across grain boundaries in graphene monolayers on SiC(0001). 2D Materials, 2018, 5, 031004.	2.0	6
44	Optical Imaging and Spectroscopic Characterization of Self-Assembled Environmental Adsorbates on Graphene. Nano Letters, 2018, 18, 2603-2608.	4.5	15
45	Probing the Optical Properties and Strain-Tuning of Ultrathin Mo _{1-x} W _x Te ₂ . Nano Letters, 2018, 18, 2485-2491.	4.5	53
46	Enhancing Mo:BiVO ₄ Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. Advanced Energy Materials, 2018, 8, 1701765.	10.2	92
47	Strain tuning of excitons in monolayer WSe ₂ . Physical Review B, 2018, 98, .		
48	Ultrafast dynamics in van der Waals heterostructures. Nature Nanotechnology, 2018, 13, 994-1003.	15.6	392
49	Efficient generation of neutral and charged biexcitons in encapsulated WSe ₂ monolayers. Nature Communications, 2018, 9, 3718.	5.8	133
50	Resolving Hysteresis in Perovskite Solar Cells with Rapid Flame-Processed Cobalt-Doped TiO ₂ . Advanced Energy Materials, 2018, 8, 1801717.	10.2	76
51	Imaging CF ₃ I conical intersection and photodissociation dynamics with ultrafast electron diffraction. Science, 2018, 361, 64-67.	6.0	170
52	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS ₂ . Nano Letters, 2018, 18, 6135-6143.	4.5	50
53	The Role of Electronic and Phononic Excitation in the Optical Response of Monolayer WS ₂ after Ultrafast Excitation. Nano Letters, 2017, 17, 644-651.	4.5	143
54	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Proceedings of SPIE, 2017, , .	0.8	0

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55	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	2.0	242
56	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	5.8	526
57	Local Polar Fluctuations in Lead Halide Perovskite Crystals. Physical Review Letters, 2017, 118, 136001.	2.9	489
58	Exciton broadening in WS_2 /graphene heterostructures. Physical Review B, 2017, 96, .	1.1	46
59	Temperature-Dependent Thermal Boundary Conductance of Monolayer MoS ₂ by Raman Thermometry. ACS Applied Materials & Interfaces, 2017, 9, 43013-43020.	4.0	125
60	Optical Properties of Graphene. , 2017, , 38-51.		7
61	Vibrations in Graphene. , 2017, , 71-89.		7
62	Graphene Plasmonics. , 2017, , 104-140.		1
63	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	4.5	46
64	Magnetic brightening and control of dark excitons in monolayer WSe ₂ . Nature Nanotechnology, 2017, 12, 883-888.	15.6	315
65	High-harmonic generation from an atomically thin semiconductor. Nature Physics, 2017, 13, 262-265.	6.5	514
66	Polaritons in layered two-dimensional materials. Nature Materials, 2017, 16, 182-194.	13.3	963
67	Optical manipulation of valley pseudospin. Nature Physics, 2017, 13, 26-29.	6.5	195
68	Ultrafast atomic-scale structural response in monolayer and multilayer transition metal dichalcogenides. , 2016, , .		0
69	Ultrasensitive Plasmonic Detection of Molecules with Graphene. ACS Photonics, 2016, 3, 553-557.	3.2	104
70	Electronic band gaps and exciton binding energies in monolayer MoS_2 /graphene heterostructures. Physical Review B, 2016, 94, .	1.1	80
71	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	5.8	360
72	Band Alignment in MoS ₂ /WS ₂ Transition Metal Dichalcogenide Heterostructures Probed by Scanning Tunneling Microscopy and Spectroscopy. Nano Letters, 2016, 16, 4831-4837.	4.5	242

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73	Metal-Semiconductor Nanoparticle Hybrids Formed by Self-Organization: A Platform to Address Exciton-Plasmon Coupling. Nano Letters, 2016, 16, 4811-4818.	4.5	37
74	Linearly Polarized Excitons in Single- and Few-Layer ReS ₂ Crystals. ACS Photonics, 2016, 3, 96-101.	3.2	216
75	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.	4.5	179
76	Photonic and plasmonic guided modes in graphene-silicon photonic crystals. , 2016, , .		0
77	Observation of High-Harmonic Generation from an Atomically Thin Semiconductor. , 2016, , .		0
78	Tunable electronic correlation effects in nanotube-light interactions. Physical Review B, 2015, 92, .	1.1	13
79	Electrical Tuning of Exciton Binding Energies in Monolayer χ^2 Physical Review Letters, 2015, 115, 126802.	2.9	323
80	Experimental Evidence for Dark Excitons in Monolayer χ^2 Physical Review Letters, 2015, 115, 257403.	2.9	376
81	Photocurrent gain in graphene-silicon p-i-n junction. , 2015, , .		0
82	Population inversion and giant bandgap renormalization in atomically thin WS ₂ layers. Nature Photonics, 2015, 9, 466-470.	15.6	366
83	Observation of Ground- and Excited-State Charge Transfer at the C ₆₀ /Graphene Interface. ACS Nano, 2015, 9, 7175-7185.	7.3	69
84	Bright visible light emission from graphene. Nature Nanotechnology, 2015, 10, 676-681.	15.6	284
85	Probing the Dynamics of the Metallic-to-Semiconducting Structural Phase Transformation in MoS ₂ Crystals. Nano Letters, 2015, 15, 5081-5088.	4.5	174
86	Probing Interlayer Interactions in Transition Metal Dichalcogenide Heterostructures by Optical Spectroscopy: MoS ₂ /WS ₂ and MoSe ₂ /WSe ₂ . Nano Letters, 2015, 15, 5033-5038.	4.5	277
87	Excitons in ultrathin organic-inorganic perovskite crystals. Physical Review B, 2015, 92, .	1.1	263
88	Impedance spectroscopy studies of moisture uptake in low-k dielectrics and its relation to reliability. Microelectronic Engineering, 2015, 147, 100-103.	1.1	7
89	Observation of biexcitons in monolayer WSe ₂ . Nature Physics, 2015, 11, 477-481.	6.5	531
90	Observation of Excitonic Rydberg States in Monolayer MoS ₂ and WS ₂ by Photoluminescence Excitation Spectroscopy. Nano Letters, 2015, 15, 2992-2997.	4.5	327

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91	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.	4.0	275
92	Photonic and Plasmonic Guided Modes in Graphene-Silicon Photonic Crystals. ACS Photonics, 2015, 2, 1552-1558.	3.2	23
93	Dynamic Structural Response and Deformations of Monolayer MoS ₂ Visualized by Femtosecond Electron Diffraction. Nano Letters, 2015, 15, 6889-6895.	4.5	93
94	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.	4.5	406
95	Excitons in atomically thin transition-metal dichalcogenides. , 2014, , .		4
96	Measurement of the optical dielectric function of monolayer transition-metal dichalcogenides: $\epsilon_2(\omega)$ of MoS ₂ and MoSe ₂ . Physical Review Letters, 2014, 113, 266804.	1.1	1,017
97	Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoS ₂ . Physical Review Letters, 2014, 113, 266804.	2.9	395
98	2D Transition Metal Dichalcogenides with Tunable Direct Band Gaps: MoS ₂ (1-x)Se _{2x} Monolayers. Advanced Materials, 2014, 26, 1399-1404.	11.1	334
99	Spin and pseudospins in layered transition metal dichalcogenides. Nature Physics, 2014, 10, 343-350.	6.5	2,204
100	Heterostructures based on inorganic and organic van der Waals systems. APL Materials, 2014, 2, .	2.2	57
101	Optical Properties and Band Gap of Single- and Few-Layer MoTe ₂ Crystals. Nano Letters, 2014, 14, 6231-6236.	4.5	757
102	Spectroscopic Study of Anisotropic Excitons in Single Crystal Hexacene. Journal of Physical Chemistry Letters, 2014, 5, 3632-3635.	2.1	10
103	Multiphonon Relaxation Slows Singlet Fission in Crystalline Hexacene. Journal of the American Chemical Society, 2014, 136, 10654-10660.	6.6	114
104	Observation of Rapid Exciton-Exciton Annihilation in Monolayer Molybdenum Disulfide. Nano Letters, 2014, 14, 5625-5629.	4.5	457
105	Exciton Binding Energy and Nonhydrogenic Rydberg Series in Monolayer WS ₂ . Physical Review Letters, 2014, 113, 076802.	2.9	1,814
106	Piezoelectricity of single-atomic-layer MoS ₂ for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	18.7	1,762
107	Atomically thin p-n junctions with van der Waals heterointerfaces. Nature Nanotechnology, 2014, 9, 676-681.	15.6	1,953
108	Postgrowth Tuning of the Bandgap of Single-Layer Molybdenum Disulfide Films by Sulfur/Selenium Exchange. ACS Nano, 2014, 8, 4672-4677.	7.3	101

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109	Evolution of the Raman spectrum of graphene grown on copper upon oxidation of the substrate. Nano Research, 2014, 7, 1613-1622.	5.8	63
110	Tailoring the Electronic Structure in Bilayer Molybdenum Disulfide via Interlayer Twist. Nano Letters, 2014, 14, 3869-3875.	4.5	278
111	Graphene Plasmon Enhanced Vibrational Sensing of Surface-Adsorbed Layers. Nano Letters, 2014, 14, 1573-1577.	4.5	211
112	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. Physical Review Letters, 2014, 112, .	2.9	74
113	Edge Structures for Nanoscale Graphene Islands on Co(0001) Surfaces. ACS Nano, 2014, 8, 5765-5773.	7.3	49
114	Observation of intra- and inter-band transitions in the transient optical response of graphene. New Journal of Physics, 2013, 15, 015009.	1.2	87
115	Electro-optical Modulation in Graphene Integrated Photonic Crystal Nanocavities. , 2013, , .		0
116	Chip-integrated ultrafast graphene photodetector with high responsivity. Nature Photonics, 2013, 7, 883-887.	15.6	971
117	Real-Time Observation of Interlayer Vibrations in Bilayer and Few-Layer Graphene. Nano Letters, 2013, 13, 4620-4623.	4.5	54
118	High-Contrast Electrooptic Modulation of a Photonic Crystal Nanocavity by Electrical Gating of Graphene. Nano Letters, 2013, 13, 691-696.	4.5	177
119	Tightly bound trions in monolayer MoS ₂ . Nature Materials, 2013, 12, 207-211.	13.3	2,329
120	Raman study of 2,7-bis(biphenyl-4-yl)-2,7-ditertbutyl-9,9-spirobifluorene adsorbed on oxide surfaces. Chemical Physics Letters, 2013, 584, 74-78.	1.2	4
121	Measurement of layer breathing mode vibrations in few-layer graphene. Physical Review B, 2013, 87, .	1.1	101
122	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. ACS Nano, 2013, 7, 2898-2926.	7.3	4,062
123	Observation of a Transient Decrease in Terahertz Conductivity of Single-Layer Graphene Induced by Ultrafast Optical Excitation. Nano Letters, 2013, 13, 524-530.	4.5	241
124	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. Nature Materials, 2013, 12, 554-561.	13.3	1,896
125	Tunable Infrared Phonon Anomalies in Trilayer Graphene. Physical Review Letters, 2013, 110, 185504.	2.9	17
126	Facile growth of monolayer MoS ₂ film areas on SiO ₂ . European Physical Journal B, 2013, 86, 1.	0.6	61

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127	Probing Symmetry Properties of Few-Layer MoS ₂ and h-BN by Optical Second-Harmonic Generation. Nano Letters, 2013, 13, 3329-3333.	4.5	848
128	Intrinsic Line Shape of the Raman 2D-Mode in Freestanding Graphene Monolayers. Nano Letters, 2013, 13, 3517-3523.	4.5	75
129	Competing Thermodynamic and Dynamic Factors Select Molecular Assemblies on a Gold Surface. Physical Review Letters, 2013, 111, 265701.	2.9	14
130	Controlled argon beam-induced desulfurization of monolayer molybdenum disulfide. Journal of Physics Condensed Matter, 2013, 25, 252201.	0.7	75
131	Controlling the spontaneous emission rate of monolayer MoS ₂ in a photonic crystal nanocavity. Applied Physics Letters, 2013, 103, 181119.	1.5	194
132	Graphene as an atomically thin interface for growth of vertically aligned carbon nanotubes. Scientific Reports, 2013, 3, 1891.	1.6	54
133	Desorption by Femtosecond Laser Pulses: An Electron-Hole Effect?. Progress of Theoretical Physics Supplement, 2013, 106, 411-418.	0.2	2
134	Ultrafast supercontinuum spectroscopy of multiple exciton states in lead chalcogenide nanorods and nanocrystals. , 2012, , .		0
135	Observation of Layer-Breathing Mode Vibrations in Few-Layer Graphene through Combination Raman Scattering. Nano Letters, 2012, 12, 5539-5544.	4.5	151
136	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.	0.7	10
137	The effect of voltage bias stress on temperature-dependent conduction properties of low-k dielectrics. , 2012, , .		3
138	Optical spectroscopy of graphene: From the far infrared to the ultraviolet. Solid State Communications, 2012, 152, 1341-1349.	0.9	601
139	Strong Enhancement of Light-Matter Interaction in Graphene Coupled to a Photonic Crystal Nanocavity. Nano Letters, 2012, 12, 5626-5631.	4.5	248
140	Water-Gated Charge Doping of Graphene Induced by Mica Substrates. Nano Letters, 2012, 12, 648-654.	4.5	166
141	Excitonic signatures in the optical response of single-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 900-906.	0.7	9
142	Structure-Dependent Fano Resonances in the Infrared Spectra of Phonons in Few-Layer Graphene. Physical Review Letters, 2012, 108, 156801.	2.9	59
143	Ultrafast Supercontinuum Spectroscopy of Carrier Multiplication and Biexcitonic Effects in Excited States of PbS Quantum Dots. Nano Letters, 2012, 12, 2658-2664.	4.5	48
144	Control of valley polarization in monolayer MoS ₂ by optical helicity. Nature Nanotechnology, 2012, 7, 494-498.	15.6	3,280

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145	Seeing Many-Body Effects in Single- and Few-Layer Graphene: Observation of Two-Dimensional Saddle-Point Excitons. <i>Physical Review Letters</i> , 2011, 106, 046401.	2.9	358
146	Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy Studies of Graphene Films Prepared by Sonication-Assisted Dispersion. <i>ACS Nano</i> , 2011, 5, 6102-6108.	7.3	56
147	Observation of Electronic Raman Scattering in Metallic Carbon Nanotubes. <i>Physical Review Letters</i> , 2011, 107, 157401.	2.9	44
148	Raman spectra of out-of-plane phonons in bilayer graphene. <i>Physical Review B</i> , 2011, 84, .	1.1	55
149	Observation of an electrically tunable band gap in trilayer graphene. <i>Nature Physics</i> , 2011, 7, 944-947.	6.5	488
150	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	62
151	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. <i>Science</i> , 2011, 333, 999-1003.	6.0	774
152	Carrier dynamics in semiconductors studied with time-resolved terahertz spectroscopy. <i>Reviews of Modern Physics</i> , 2011, 83, 543-586.	16.4	978
153	Imaging Stacking Order in Few-Layer Graphene. <i>Nano Letters</i> , 2011, 11, 164-169.	4.5	321
154	Low Bias Electron Scattering in Structure-Identified Single Wall Carbon Nanotubes: Role of Substrate Polar Phonons. <i>Physical Review Letters</i> , 2011, 107, 146601.	2.9	16
155	Temperature dependence of the anharmonic decay of optical phonons in carbon nanotubes and graphite. <i>Physical Review B</i> , 2011, 83, .	1.1	54
156	Anomalous Lattice Vibrations of Single- and Few-Layer MoS ₂ . <i>ACS Nano</i> , 2010, 4, 2695-2700.	7.3	4,028
157	Atomically Thin MoS_2 : A New Direct-Gap Semiconductor. <i>Physical Review Letters</i> , 2010, 105, 136805.	2.9	12,565
158	Measurement of the thermal conductance of the graphene/SiO ₂ interface. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	161
159	Ultrafast Photoluminescence from Graphene. <i>Physical Review Letters</i> , 2010, 105, 127404.	2.9	403
160	Electronic Structure of Few-Layer Graphene: Experimental Demonstration of Strong Dependence on Stacking Sequence. <i>Physical Review Letters</i> , 2010, 104, 176404.	2.9	257
161	The evolution of electronic structure in few-layer graphene revealed by optical spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14999-15004.	3.3	189
162	Excitons and high-order optical transitions in individual carbon nanotubes: A Rayleigh scattering spectroscopy study. <i>Physical Review B</i> , 2010, 81, .	1.1	55

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163	Infrared spectra of individual semiconducting single-walled carbon nanotubes: Testing the scaling of transition energies for large diameter nanotubes. <i>Physical Review B</i> , 2010, 82, .	1.1	9
164	Energy Transfer from Individual Semiconductor Nanocrystals to Graphene. <i>ACS Nano</i> , 2010, 4, 2964-2968.	7.3	329
165	Probing Strain-Induced Electronic Structure Change in Graphene by Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 4074-4079.	4.5	357
166	Electron and Optical Phonon Temperatures in Electrically Biased Graphene. <i>Physical Review Letters</i> , 2010, 104, 227401.	2.9	190
167	Longitudinal Optical Phonons in Metallic and Semiconducting Carbon Nanotubes. <i>Physical Review Letters</i> , 2009, 102, 075501.	2.9	61
168	Effects of photoinduced carrier injection on timedependent dielectric breakdown. , 2009, , .		4
169	Measurement of the optical Stark effect in semiconducting carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 283-287.	1.1	25
170	Ultraflat graphene. <i>Nature</i> , 2009, 462, 339-341.	13.7	619
171	Performance of monolayer graphene nanomechanical resonators with electrical readout. <i>Nature Nanotechnology</i> , 2009, 4, 861-867.	15.6	847
172	Phonon softening and crystallographic orientation of strained graphene studied by Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7304-7308.	3.3	584
173	Time-resolved Raman spectroscopy of optical phonons in graphite: Phonon anharmonic coupling and anomalous stiffening. <i>Physical Review B</i> , 2009, 80, .	1.1	121
174	Observation of an Electric-Field-Induced Band Gap in Bilayer Graphene by Infrared Spectroscopy. <i>Physical Review Letters</i> , 2009, 102, 256405.	2.9	555
175	Circularly polarized light in the single-cycle limit: The nature of highly polychromatic radiation of defined polarization. <i>Optics Express</i> , 2009, 17, 7431.	1.7	42
176	Molecular-Scale Quantum Dots from Carbon Nanotube Heterojunctions. <i>Nano Letters</i> , 2009, 9, 1544-1548.	4.5	31
177	Probing the Intrinsic Properties of Exfoliated Graphene: Raman Spectroscopy of Free-Standing Monolayers. <i>Nano Letters</i> , 2009, 9, 346-352.	4.5	498
178	NEMS applications of graphene. , 2009, , .		4
179	Structure and Electronic Properties of Graphene Nanoislands on Co(0001). <i>Nano Letters</i> , 2009, 9, 2844-2848.	4.5	236
180	G_{D}^{D} and G_{D}^{D} in the Raman spectrum of isolated nanotube: a study on resonance conditions and lineshape. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2189-2192.	0.7	28

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