

# Tony F Heinz

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

283 papers	64,347 citations	108 h-index	253 g-index
327 ext. papers	72,813 ext. citations	10.1 avg, IF	7.91 L-index

#	Paper	IF	Citations
283	Atomically thin MoS <sub>2</sub> : a new direct-gap semiconductor. <i>Physical Review Letters</i> , <b>2010</b> , 105, 136805	7.4	10306
282	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 2898-926	16.7	3414
281	Anomalous lattice vibrations of single- and few-layer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2010</b> , 4, 2695-700	16.7	3330
280	Control of valley polarization in monolayer MoS <sub>2</sub> by optical helicity. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 494-8	28.7	2670
279	Tightly bound trions in monolayer MoS <sub>2</sub> . <i>Nature Materials</i> , <b>2013</b> , 12, 207-11	27	1878
278	Spin and pseudospins in layered transition metal dichalcogenides. <i>Nature Physics</i> , <b>2014</b> , 10, 343-350	16.2	1733
277	Atomically thin p-n junctions with van der Waals heterointerfaces. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 676-81	28.7	1598
276	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. <i>Nature Materials</i> , <b>2013</b> , 12, 554-61	27	1590
275	Piezoelectricity of single-atomic-layer MoS <sub>2</sub> for energy conversion and piezotronics. <i>Nature</i> , <b>2014</b> , 514, 470-4	50.4	1360
274	Exciton binding energy and nonhydrogenic Rydberg series in monolayer WS <sub>2</sub> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 076802	7.4	1358
273	Measurement of the optical conductivity of graphene. <i>Physical Review Letters</i> , <b>2008</b> , 101, 196405	7.4	1190
272	The optical resonances in carbon nanotubes arise from excitons. <i>Science</i> , <b>2005</b> , 308, 838-41	33.3	1009
271	Chip-integrated ultrafast graphene photodetector with high responsivity. <i>Nature Photonics</i> , <b>2013</b> , 7, 883-887	33.9	768
270	Colloquium: Excitons in atomically thin transition metal dichalcogenides. <i>Reviews of Modern Physics</i> , <b>2018</b> , 90,	40.5	766
269	Carrier dynamics in semiconductors studied with time-resolved terahertz spectroscopy. <i>Reviews of Modern Physics</i> , <b>2011</b> , 83, 543-586	40.5	753
268	Measurement of the optical dielectric function of monolayer transition-metal dichalcogenides: MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	739
267	Visualizing individual nitrogen dopants in monolayer graphene. <i>Science</i> , <b>2011</b> , 333, 999-1003	33.3	697

266	Performance of monolayer graphene nanomechanical resonators with electrical readout. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 861-7	28.7	694
265	Polaritons in layered two-dimensional materials. <i>Nature Materials</i> , <b>2017</b> , 16, 182-194	27	665
264	Probing symmetry properties of few-layer MoS <sub>2</sub> and h-BN by optical second-harmonic generation. <i>Nano Letters</i> , <b>2013</b> , 13, 3329-33	11.5	649
263	A wideband coherent terahertz spectroscopy system using optical rectification and electro-optic sampling. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 2321-2323	3.4	577
262	Optical properties and band gap of single- and few-layer MoTe <sub>2</sub> crystals. <i>Nano Letters</i> , <b>2014</b> , 14, 6231-6	11.5	540
261	Ultraflat graphene. <i>Nature</i> , <b>2009</b> , 462, 339-41	50.4	527
260	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> , <b>2009</b> , 106, 7304-8	11.5	498
259	High-resolution scanning tunneling microscopy imaging of mesoscopic graphene sheets on an insulating surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 9209-12	11.5	494
258	Optical spectroscopy of graphene: From the far infrared to the ultraviolet. <i>Solid State Communications</i> , <b>2012</b> , 152, 1341-1349	1.6	485
257	Observation of an electric-field-induced band gap in bilayer graphene by infrared spectroscopy. <i>Physical Review Letters</i> , <b>2009</b> , 102, 256405	7.4	485
256	Reversible basal plane hydrogenation of graphene. <i>Nano Letters</i> , <b>2008</b> , 8, 4597-602	11.5	479
255	Probing the intrinsic properties of exfoliated graphene: Raman spectroscopy of free-standing monolayers. <i>Nano Letters</i> , <b>2009</b> , 9, 346-52	11.5	436
254	Observation of an electrically tunable band gap in trilayer graphene. <i>Nature Physics</i> , <b>2011</b> , 7, 944-947	16.2	419
253	Observation of biexcitons in monolayer WSe <sub>2</sub> . <i>Nature Physics</i> , <b>2015</b> , 11, 477-481	16.2	399
252	Second-Harmonic Rayleigh Scattering from a Sphere of Centrosymmetric Material. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4045-4048	7.4	376
251	Local Polar Fluctuations in Lead Halide Perovskite Crystals. <i>Physical Review Letters</i> , <b>2017</b> , 118, 136001	7.4	374
250	Observation of rapid exciton-exciton annihilation in monolayer molybdenum disulfide. <i>Nano Letters</i> , <b>2014</b> , 14, 5625-9	11.5	358
249	Coulomb engineering of the bandgap and excitons in two-dimensional materials. <i>Nature Communications</i> , <b>2017</b> , 8, 15251	17.4	334

248	Ultrafast photoluminescence from graphene. <i>Physical Review Letters</i> , <b>2010</b> , 105, 127404	7.4	332
247	In-Plane Anisotropy in Mono- and Few-Layer ReS <sub>2</sub> Probed by Raman Spectroscopy and Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2015</b> , 15, 5667-72	11.5	327
246	High-harmonic generation from an atomically thin semiconductor. <i>Nature Physics</i> , <b>2017</b> , 13, 262-265	16.2	320
245	Second-Harmonic Reflection from Silicon Surfaces and Its Relation to Structural Symmetry. <i>Physical Review Letters</i> , <b>1983</b> , 51, 1983-1986	7.4	317
244	Seeing many-body effects in single- and few-layer graphene: observation of two-dimensional saddle-point excitons. <i>Physical Review Letters</i> , <b>2011</b> , 106, 046401	7.4	315
243	Determination of molecular orientation of monolayer adsorbates by optical second-harmonic generation. <i>Physical Review A</i> , <b>1983</b> , 28, 1883-1885	2.6	315
242	Probing strain-induced electronic structure change in graphene by Raman spectroscopy. <i>Nano Letters</i> , <b>2010</b> , 10, 4074-9	11.5	313
241	Energy transfer from individual semiconductor nanocrystals to graphene. <i>ACS Nano</i> , <b>2010</b> , 4, 2964-8	16.7	301
240	Valley splitting and polarization by the Zeeman effect in monolayer MoSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 266804	7.4	299
239	Experimental Evidence for Dark Excitons in Monolayer WSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 115, 257403	7.4	286
238	Spectroscopy of Molecular Monolayers by Resonant Second-Harmonic Generation. <i>Physical Review Letters</i> , <b>1982</b> , 48, 478-481	7.4	286
237	2-dimensional transition metal dichalcogenides with tunable direct band gaps: MoS <sub>2</sub> and Se <sub>2</sub> monolayers. <i>Advanced Materials</i> , <b>2014</b> , 26, 1399-404	24	282
236	Imaging stacking order in few-layer graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 164-9	11.5	279
235	Time-resolved fluorescence of carbon nanotubes and its implication for radiative lifetimes. <i>Physical Review Letters</i> , <b>2004</b> , 92, 177401	7.4	269
234	Population inversion and giant bandgap renormalization in atomically thin WS <sub>2</sub> layers. <i>Nature Photonics</i> , <b>2015</b> , 9, 466-470	33.9	260
233	Observation of Excitonic Rydberg States in Monolayer MoS <sub>2</sub> and WS <sub>2</sub> by Photoluminescence Excitation Spectroscopy. <i>Nano Letters</i> , <b>2015</b> , 15, 2992-7	11.5	259
232	Theory of optical second-harmonic generation from a sphere of centrosymmetric material: small-particle limit. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2004</b> , 21, 1328	1.7	255
231	Desorption of hydrogen from Si(100)2 x 1 at low coverages: The influence of pi -bonded dimers on the kinetics. <i>Physical Review B</i> , <b>1992</b> , 45, 9485-9488	3.3	255

230	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , <b>2016</b> , 7, 13279	17.4	248
229	Electrical Tuning of Exciton Binding Energies in Monolayer WS <sub>2</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 115, 126802	7.4	248
228	Study of Si(111) surfaces by optical second-harmonic generation: Reconstruction and surface phase transformation. <i>Physical Review Letters</i> , <b>1985</b> , 54, 63-66	7.4	240
227	Desorption induced by multiple electronic transitions. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3737-3740	7.4	237
226	Desorption induced by femtosecond laser pulses. <i>Physical Review Letters</i> , <b>1990</b> , 64, 1537-1540	7.4	232
225	Bright visible light emission from graphene. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 676-81	28.7	226
224	Electronic structure of few-layer graphene: experimental demonstration of strong dependence on stacking sequence. <i>Physical Review Letters</i> , <b>2010</b> , 104, 176404	7.4	221
223	Reversible surface oxidation and efficient luminescence quenching in semiconductor single-wall carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 15269-76	16.4	216
222	Ultrafast dynamics in van der Waals heterostructures. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 994-1003	28.7	216
221	Probing Interlayer Interactions in Transition Metal Dichalcogenide Heterostructures by Optical Spectroscopy: MoS <sub>2</sub> /WS <sub>2</sub> and MoSe <sub>2</sub> /WSe <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 5033-8	11.5	214
220	Tailoring the electronic structure in bilayer molybdenum disulfide via interlayer twist. <i>Nano Letters</i> , <b>2014</b> , 14, 3869-75	11.5	213
219	Magnetic brightening and control of dark excitons in monolayer WSe. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 883-888	28.7	213
218	Structure and electronic properties of graphene nanoislands on Co(0001). <i>Nano Letters</i> , <b>2009</b> , 9, 2844-8	11.5	213
217	Structural dependence of excitonic optical transitions and band-gap energies in carbon nanotubes. <i>Nano Letters</i> , <b>2005</b> , 5, 2314-8	11.5	211
216	Optical spectroscopy of individual single-walled carbon nanotubes of defined chiral structure. <i>Science</i> , <b>2006</b> , 312, 554-6	33.3	208
215	Excitons in ultrathin organic-inorganic perovskite crystals. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	206
214	Strong enhancement of light-matter interaction in graphene coupled to a photonic crystal nanocavity. <i>Nano Letters</i> , <b>2012</b> , 12, 5626-31	11.5	204
213	Probing electronic transitions in individual carbon nanotubes by Rayleigh scattering. <i>Science</i> , <b>2004</b> , 306, 1540-3	33.3	200

212	Measurement of Lateral and Interfacial Thermal Conductivity of Single- and Bilayer MoS <sub>2</sub> and MoSe <sub>2</sub> Using Refined Optothermal Raman Technique. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25923-9	9.5	195
211	Surface-enhanced second-harmonic generation and Raman scattering. <i>Physical Review B</i> , <b>1983</b> , 27, 1965-1979	3.3	190
210	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. <i>2D Materials</i> , <b>2017</b> , 4, 031011	5.9	188
209	Electronically driven adsorbate excitation mechanism in femtosecond-pulse laser desorption. <i>Physical Review B</i> , <b>1995</b> , 52, 6042-6056	3.3	184
208	Electron transport in TiO <sub>2</sub> probed by THz time-domain spectroscopy. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	183
207	Observation of a transient decrease in terahertz conductivity of single-layer graphene induced by ultrafast optical excitation. <i>Nano Letters</i> , <b>2013</b> , 13, 524-30	11.5	179
206	Graphene plasmon enhanced vibrational sensing of surface-adsorbed layers. <i>Nano Letters</i> , <b>2014</b> , 14, 1573-1575	11.5	174
205	Dynamics of nonthermal reactions: femtosecond surface chemistry. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 786-798		172
204	Band Alignment in MoS <sub>2</sub> /WS <sub>2</sub> Transition Metal Dichalcogenide Heterostructures Probed by Scanning Tunneling Microscopy and Spectroscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 4831-7	11.5	169
203	Linearly Polarized Excitons in Single- and Few-Layer ReS <sub>2</sub> Crystals. <i>ACS Photonics</i> , <b>2016</b> , 3, 96-101	6.3	169
202	Observation of rapid Auger recombination in optically excited semiconducting carbon nanotubes. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	166
201	Femtosecond time-resolved measurement of desorption. <i>Physical Review Letters</i> , <b>1991</b> , 66, 3024-3027	7.4	166
200	Electron and optical phonon temperatures in electrically biased graphene. <i>Physical Review Letters</i> , <b>2010</b> , 104, 227401	7.4	162
199	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> , <b>2010</b> , 107, 14999-5004	11.5	161
198	Surface diffusion of hydrogen on Si(111)7 x 7. <i>Physical Review Letters</i> , <b>1991</b> , 66, 1994-1997	7.4	158
197	Electronic transitions at the CaF <sub>2</sub> /Si(111) interface probed by resonant three-wave mixing spectroscopy. <i>Physical Review Letters</i> , <b>1989</b> , 63, 644-647	7.4	156
196	Controlling the spontaneous emission rate of monolayer MoS in a photonic crystal nanocavity. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 181119	3.4	155
195	Detection of Molecular Monolayers by Optical Second-Harmonic Generation. <i>Physical Review Letters</i> , <b>1981</b> , 46, 1010-1012	7.4	154

194	High-contrast electrooptic modulation of a photonic crystal nanocavity by electrical gating of graphene. <i>Nano Letters</i> , <b>2013</b> , 13, 691-6	11.5	151
193	Surface Studies by Optical Second-Harmonic Generation: The Adsorption of O <sub>2</sub> , CO, and Sodium on the Rh(111) Surface. <i>Physical Review Letters</i> , <b>1984</b> , 52, 348-351	7.4	150
192	Measurement of the thermal conductance of the graphene/SiO <sub>2</sub> interface. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 221904	3.4	148
191	Water-gated charge doping of graphene induced by mica substrates. <i>Nano Letters</i> , <b>2012</b> , 12, 648-54	11.5	146
190	Absolute orientation of water molecules at the neat water surface. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 5074-5075		145
189	Energy Transfer from Quantum Dots to Graphene and MoS <sub>2</sub> : The Role of Absorption and Screening in Two-Dimensional Materials. <i>Nano Letters</i> , <b>2016</b> , 16, 2328-33	11.5	140
188	Observation of layer-breathing mode vibrations in few-layer graphene through combination Raman scattering. <i>Nano Letters</i> , <b>2012</b> , 12, 5539-44	11.5	134
187	Probing the Dynamics of the Metallic-to-Semiconducting Structural Phase Transformation in MoS <sub>2</sub> Crystals. <i>Nano Letters</i> , <b>2015</b> , 15, 5081-8	11.5	132
186	Optical manipulation of valley pseudospin. <i>Nature Physics</i> , <b>2017</b> , 13, 26-29	16.2	128
185	Coherent detection of freely propagating terahertz radiation by electro-optic sampling. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 150-152	3.4	126
184	Dielectric disorder in two-dimensional materials. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 832-837	28.7	125
183	Desorption kinetics of hydrogen from the Si(111)7 $\times$ 7 surface. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 4080-4083	3.9	125
182	Observation of excitons in one-dimensional metallic single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2007</b> , 99, 227401	7.4	124
181	Real-space observation of molecular motion induced by femtosecond laser pulses. <i>Science</i> , <b>2004</b> , 305, 648-51	33.3	120
180	Imaging CFI conical intersection and photodissociation dynamics with ultrafast electron diffraction. <i>Science</i> , <b>2018</b> , 361, 64-67	33.3	117
179	Studies of liquid surfaces by second harmonic generation. <i>The Journal of Physical Chemistry</i> , <b>1986</b> , 90, 560-562		115
178	Exciton polarizability in semiconductor nanocrystals. <i>Nature Materials</i> , <b>2006</b> , 5, 861-4	27	114
177	Single-shot measurement of terahertz electromagnetic pulses by use of electro-optic sampling. <i>Optics Letters</i> , <b>2000</b> , 25, 426-8	3	111



176	Interactions between individual carbon nanotubes studied by Rayleigh scattering spectroscopy. <i>Physical Review Letters</i> , <b>2006</b> , 96, 167401	7.4	109
175	The Role of Electronic and Phononic Excitation in the Optical Response of Monolayer WS after Ultrafast Excitation. <i>Nano Letters</i> , <b>2017</b> , 17, 644-651	11.5	106
174	Time-resolved Raman spectroscopy of optical phonons in graphite: Phonon anharmonic coupling and anomalous stiffening. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	105
173	Sudden structural change at an air/binary liquid interface: Sum frequency study of the air/acetone/water interface. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 5099-5101	3.9	103
172	Multiphonon relaxation slows singlet fission in crystalline hexacene. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10654-60	16.4	92
171	Variable electron-phonon coupling in isolated metallic carbon nanotubes observed by Raman scattering. <i>Physical Review Letters</i> , <b>2007</b> , 99, 027402	7.4	91
170	Coherent interactions in pump-probe absorption measurements: the effect of phase gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1985</b> , 2, 674	1.7	91
169	Study of symmetry and disordering of Si(111)-7 $\times$ 7 surfaces by optical second harmonic generation. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1985</b> , 3, 1467		90
168	Measurement of layer breathing mode vibrations in few-layer graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	89
167	Postgrowth tuning of the bandgap of single-layer molybdenum disulfide films by sulfur/selenium exchange. <i>ACS Nano</i> , <b>2014</b> , 8, 4672-7	16.7	88
166	Electrostatic surface charge at aqueous/ $\alpha$ -Al <sub>2</sub> O <sub>3</sub> single-crystal interfaces as probed by optical second-harmonic generation. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7981-6	3.4	88
165	Temperature-Dependent Thermal Boundary Conductance of Monolayer MoS by Raman Thermometry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43013-43020	9.5	87
164	Auger recombination of excitons in one-dimensional systems. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	87
163	Ultrasensitive Plasmonic Detection of Molecules with Graphene. <i>ACS Photonics</i> , <b>2016</b> , 3, 553-557	6.3	80
162	Efficient generation of neutral and charged biexcitons in encapsulated WSe monolayers. <i>Nature Communications</i> , <b>2018</b> , 9, 3718	17.4	80
161	Direct measurement of the lifetime of optical phonons in single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2008</b> , 100, 225503	7.4	77
160	Desorption by Femtosecond Laser Pulses: An Electron-Hole Effect?. <i>Progress of Theoretical Physics Supplement</i> , <b>1991</b> , 106, 411-418		76
159	Ultrafast Graphene Light Emitters. <i>Nano Letters</i> , <b>2018</b> , 18, 934-940	11.5	75



158	Second-harmonic generation and theoretical studies of protonation at the water/TiO <sub>2</sub> (110) interface. <i>Chemical Physics Letters</i> , <b>2005</b> , 411, 399-403	2.5	74
157	Experimental study of optical second-harmonic scattering from spherical nanoparticles. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	73
156	Anisotropic Orientational Motion of Molecular Adsorbates at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 3425-3433	3.4	73
155	Vibrationally assisted electronic desorption: Femtosecond surface chemistry of O <sub>2</sub> /Pd(111). <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 736-739	3.9	73
154	Charge transport and carrier dynamics in liquids probed by THz time-domain spectroscopy. <i>Physical Review Letters</i> , <b>2001</b> , 86, 340-3	7.4	72
153	Dynamic Structural Response and Deformations of Monolayer MoS <sub>2</sub> Visualized by Femtosecond Electron Diffraction. <i>Nano Letters</i> , <b>2015</b> , 15, 6889-95	11.5	70
152	Determination of the young's modulus of structurally defined carbon nanotubes. <i>Nano Letters</i> , <b>2008</b> , 8, 4158-61	11.5	70
151	Detection of freely propagating terahertz radiation by use of optical second-harmonic generation. <i>Optics Letters</i> , <b>1998</b> , 23, 67-9	3	70
150	Strain tuning of excitons in monolayer WSe <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	70
149	Revealing multiple classes of stable quantum emitters in hexagonal boron nitride with correlated optical and electron microscopy. <i>Nature Materials</i> , <b>2020</b> , 19, 534-539	27	68
148	Probing high-barrier pathways of surface reactions by scanning tunneling microscopy. <i>Science</i> , <b>2002</b> , 296, 1838-41	33.3	68
147	Intrinsic line shape of the Raman 2D-mode in freestanding graphene monolayers. <i>Nano Letters</i> , <b>2013</b> , 13, 3517-23	11.5	67
146	Observation of intra- and inter-band transitions in the transient optical response of graphene. <i>New Journal of Physics</i> , <b>2013</b> , 15, 015009	2.9	66
145	Dissociative Adsorption of H <sub>2</sub> on Si(100) Induced by Atomic H. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1810-1813	7.4	65
144	Direct measurement of strain-induced changes in the band structure of carbon nanotubes. <i>Physical Review Letters</i> , <b>2008</b> , 100, 136803	7.4	64
143	Electronic band gaps and exciton binding energies in monolayer MoxW <sub>1-x</sub> S <sub>2</sub> transition metal dichalcogenide alloys probed by scanning tunneling and optical spectroscopy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	61
142	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183105	3.4	61
141	Observation of Ground- and Excited-State Charge Transfer at the C <sub>60</sub> /Graphene Interface. <i>ACS Nano</i> , <b>2015</b> , 9, 7175-85	16.7	60

140	Enhancing Mo:BiVO <sub>4</sub> Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701765	21.8	60
139	Extracting subnanometer single shells from ultralong multiwalled carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14155-8	11.5	59
138	Femtosecond dynamics of solvation at the air/water interface. <i>Chemical Physics Letters</i> , <b>1999</b> , 301, 112-120		59
137	Controlled argon beam-induced desulfurization of monolayer molybdenum disulfide. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 252201	1.8	58
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135	Free-space electro-optic detection of continuous-wave terahertz radiation. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2524-2526	3.4	58
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