

# Steven G Louie

## List of Publications by Citations

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286  
papers

48,919  
citations

96  
h-index

220  
g-index

304  
ext. papers

54,855  
ext. citations

9.8  
avg, IF

7.78  
L-index

#	Paper	IF	Citations
286	Energy gaps in graphene nanoribbons. <i>Physical Review Letters</i> , <b>2006</b> , 97, 216803	7.4	3863
285	Half-metallic graphene nanoribbons. <i>Nature</i> , <b>2006</b> , 444, 347-9	50.4	3486
284	Electron correlation in semiconductors and insulators: Band gaps and quasiparticle energies. <i>Physical Review B</i> , <b>1986</b> , 34, 5390-5413	3.3	2875
283	Relaxation of Crystals with the Quasi-Newton Method. <i>Journal of Computational Physics</i> , <b>1997</b> , 131, 233-240	2.40	1913
282	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , <b>2017</b> , 546, 265-269	36.9	1890
281	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 11509-39	16.7	1581
280	Electron-hole excitations and optical spectra from first principles. <i>Physical Review B</i> , <b>2000</b> , 62, 4927-4944	3.3	1151
279	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. <i>Nature Materials</i> , <b>2014</b> , 13, 1091-5	27	1150
278	First-principles theory of quasiparticles: Calculation of band gaps in semiconductors and insulators. <i>Physical Review Letters</i> , <b>1985</b> , 55, 1418-1421	7.4	1096
277	Crossed nanotube junctions. <i>Science</i> , <b>2000</b> , 288, 494-7	33.3	1050
276	Optical spectrum of MoS2: many-body effects and diversity of exciton states. <i>Physical Review Letters</i> , <b>2013</b> , 111, 216805	7.4	1031
275	Quasiparticle energies and band gaps in graphene nanoribbons. <i>Physical Review Letters</i> , <b>2007</b> , 99, 186801	7.4	937
274	Excitonic effects and optical spectra of single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2004</b> , 92, 077402	7.4	805
273	Renormalization of molecular electronic levels at metal-molecule interfaces. <i>Physical Review Letters</i> , <b>2006</b> , 97, 216405	7.4	693
272	Probing excitonic dark states in single-layer tungsten disulphide. <i>Nature</i> , <b>2014</b> , 513, 214-8	50.4	672
271	Electron-Hole Excitations in Semiconductors and Insulators. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2312-2315	7.4	600
270	Topological defects in graphene: Dislocations and grain boundaries. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	571

269	Spatially resolving edge states of chiral graphene nanoribbons. <i>Nature Physics</i> , <b>2011</b> , 7, 616-620	16.2	557
268	Electronic mechanism of hardness enhancement in transition-metal carbonitrides. <i>Nature</i> , <b>1999</b> , 399, 132-134	50.4	556
267	Anisotropic behaviours of massless Dirac fermions in graphene under periodic potentials. <i>Nature Physics</i> , <b>2008</b> , 4, 213-217	16.2	531
266	BerkeleyGW: A massively parallel computer package for the calculation of the quasiparticle and optical properties of materials and nanostructures. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 1269-1289	4.3	530
265	Mechanically controlled binary conductance switching of a single-molecule junction. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 230-4	28.7	515
264	Excitonic effects on the optical response of graphene and bilayer graphene. <i>Physical Review Letters</i> , <b>2009</b> , 103, 186802	7.4	509
263	Direct observation of the layer-dependent electronic structure in phosphorene. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 21-25	28.7	473
262	First direct observation of Dirac fermions in graphite. <i>Nature Physics</i> , <b>2006</b> , 2, 595-599	16.2	430
261	Electron-phonon interaction using Wannier functions. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	425
260	Fully collapsed carbon nanotubes. <i>Nature</i> , <b>1995</b> , 377, 135-138	50.4	419
259	Amine-gold linked single-molecule circuits: experiment and theory. <i>Nano Letters</i> , <b>2007</b> , 7, 3477-82	11.5	403
258	Spin polarization and transport of surface states in the topological insulators Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> from first principles. <i>Physical Review Letters</i> , <b>2010</b> , 105, 266806	7.4	381
257	Disorder, Pseudospins, and Backscattering in Carbon Nanotubes. <i>Physical Review Letters</i> , <b>1999</b> , 83, 5098-5101	7.4	371
256	Molecular bandgap engineering of bottom-up synthesized graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 156-60	28.7	340
255	New generation of massless Dirac fermions in graphene under external periodic potentials. <i>Physical Review Letters</i> , <b>2008</b> , 101, 126804	7.4	316
254	Broken symmetry and pseudogaps in ropes of carbon nanotubes. <i>Nature</i> , <b>1998</b> , 391, 466-468	50.4	312
253	Ab initio static dielectric matrices from the density-functional approach. I. Formulation and application to semiconductors and insulators. <i>Physical Review B</i> , <b>1987</b> , 35, 5585-5601	3.3	311
252	Excitonic Effects and the Optical Absorption Spectrum of Hydrogenated Si Clusters. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3320-3323	7.4	310

251	Calcium-decorated graphene-based nanostructures for hydrogen storage. <i>Nano Letters</i> , <b>2010</b> , 10, 793-8	11.5	300
250	First-principles calculation of the superconducting transition in MgB <sub>2</sub> within the anisotropic Eliashberg formalism. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	295
249	Topological band engineering of graphene nanoribbons. <i>Nature</i> , <b>2018</b> , 560, 204-208	50.4	287
248	Tunable Magnetism and Half-Metallicity in Hole-Doped Monolayer GaSe. <i>Physical Review Letters</i> , <b>2015</b> , 114, 236602	7.4	257
247	Ab initio calculation of the electronic and optical properties of solid pentacene. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	252
246	Vacancy hardening and softening in transition metal carbides and nitrides. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3348-51	7.4	251
245	Theory and ab initio calculation of radiative lifetime of excitons in semiconducting carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 95, 247402	7.4	248
244	Theory and computation of hot carriers generated by surface plasmon polaritons in noble metals. <i>Nature Communications</i> , <b>2015</b> , 6, 7044	17.4	238
243	EPW: A program for calculating the electron-phonon coupling using maximally localized Wannier functions. <i>Computer Physics Communications</i> , <b>2010</b> , 181, 2140-2148	4.2	225
242	Excitonic effects in the optical spectra of graphene nanoribbons. <i>Nano Letters</i> , <b>2007</b> , 7, 3112-5	11.5	225
241	Electron beam supercollimation in graphene superlattices. <i>Nano Letters</i> , <b>2008</b> , 8, 2920-4	11.5	223
240	Screening and many-body effects in two-dimensional crystals: Monolayer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	217
239	Magnetic brightening and control of dark excitons in monolayer WSe <sub>2</sub> . <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 883-888	28.7	213
238	GW100: Benchmarking G <sub>0</sub> W <sub>0</sub> for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 5665-87	6.4	207
237	Gate-controlled ionization and screening of cobalt adatoms on a graphene surface. <i>Nature Physics</i> , <b>2011</b> , 7, 43-47	16.2	198
236	Electron-phonon renormalization of the direct band gap of diamond. <i>Physical Review Letters</i> , <b>2010</b> , 105, 265501	7.4	192
235	Quasiparticle band gap of ZnO: high accuracy from the conventional GW approach. <i>Physical Review Letters</i> , <b>2010</b> , 105, 146401	7.4	180
234	Excitons and Optical Spectrum of the Si(111)(2x1) Surface. <i>Physical Review Letters</i> , <b>1999</b> , 83, 856-859	7.4	178

233	Site-Specific Substitutional Boron Doping of Semiconducting Armchair Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8872-5	16.4	177
232	Observing atomic collapse resonances in artificial nuclei on graphene. <i>Science</i> , <b>2013</b> , 340, 734-7	33.3	175
231	Diameter and chirality dependence of exciton properties in carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	168
230	ab initio study of hot carriers in the first picosecond after sunlight absorption in silicon. <i>Physical Review Letters</i> , <b>2014</b> , 112, 257402	7.4	166
229	Many-body interactions in quasi-freestanding graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11365-9	11.5	166
228	Velocity renormalization and carrier lifetime in graphene from the electron-phonon interaction. <i>Physical Review Letters</i> , <b>2007</b> , 99, 086804	7.4	162
227	High accuracy many-body calculational approaches for excitations in molecules. <i>Physical Review Letters</i> , <b>2001</b> , 86, 472-5	7.4	160
226	Ab Initio Photoabsorption Spectra and Structures of Small Semiconductor and Metal Clusters. <i>Physical Review Letters</i> , <b>1996</b> , 77, 247-250	7.4	156
225	Photoelectron spin-flipping and texture manipulation in a topological insulator. <i>Nature Physics</i> , <b>2013</b> , 9, 293-298	16.2	152
224	Negative differential resistance in carbon atomic wire-carbon nanotube junctions. <i>Nano Letters</i> , <b>2008</b> , 8, 2900-5	11.5	152
223	Topological Phases in Graphene Nanoribbons: Junction States, Spin Centers, and Quantum Spin Chains. <i>Physical Review Letters</i> , <b>2017</b> , 119, 076401	7.4	151
222	Structural forms of cubic BC <sub>2</sub> N. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	146
221	Si-O-Si bond-angle distribution in vitreous silica from first-principles <sup>29</sup> Si NMR analysis. <i>Physical Review B</i> , <b>2000</b> , 62, R4786-R4789	3.3	145
220	Self-consistent pseudopotential method for localized configurations: Molecules. <i>Physical Review B</i> , <b>1975</b> , 12, 5575-5579	3.3	145
219	Electron-phonon interactions in graphene, bilayer graphene, and graphite. <i>Nano Letters</i> , <b>2008</b> , 8, 4229-33	11.5	138
218	Three-dimensional spirals of atomic layered MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2014</b> , 14, 6418-23	11.5	136
217	Calcium-decorated carbon nanotubes for high-capacity hydrogen storage: First-principles calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	135
216	Small phonon contribution to the photoemission kink in the copper oxide superconductors. <i>Nature</i> , <b>2008</b> , 452, 975-8	50.4	135

215	High thermoelectric power factor in two-dimensional crystals of MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95, 103, 046808	3.3	133
214	Nonanalyticity, Valley Quantum Phases, and Lightlike Exciton Dispersion in Monolayer Transition Metal Dichalcogenides: Theory and First-Principles Calculations. <i>Physical Review Letters</i> , <b>2015</b> , 115, 176801	7.4	130
213	Landau levels and quantum Hall effect in graphene superlattices. <i>Physical Review Letters</i> , <b>2009</b> , 103, 046808	7.4	125
212	Inversion symmetry and bulk Rashba effect in methylammonium lead iodide perovskite single crystals. <i>Nature Communications</i> , <b>2018</b> , 9, 1829	17.4	123
211	Low Energy Properties of (n,n) Carbon Nanotubes. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4245-4248	7.4	123
210	Making massless Dirac fermions from a patterned two-dimensional electron gas. <i>Nano Letters</i> , <b>2009</b> , 9, 1793-7	11.5	120
209	Coulomb-hole summations and energies for GW calculations with limited number of empty orbitals: A modified static remainder approach. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	119
208	Atomically precise graphene nanoribbon heterojunctions from a single molecular precursor. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 1077-1082	28.7	118
207	Structural and electronic properties of n-doped and p-doped SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	118
206	Identifying substitutional oxygen as a prolific point defect in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , <b>2019</b> , 10, 3382	17.4	117
205	Mechanical instability and ideal shear strength of transition metal carbides and nitrides. <i>Physical Review Letters</i> , <b>2001</b> , 87, 075503	7.4	111
204	Probing the role of interlayer coupling and coulomb interactions on electronic structure in few-layer MoSe <sub>2</sub> nanostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 2594-9	11.5	110
203	Phonon-assisted optical absorption in silicon from first principles. <i>Physical Review Letters</i> , <b>2012</b> , 108, 167402	7.4	110
202	Self-Consistent Pseudopotential Calculations on Si(111) Unreconstructed and (2̄1̄) Reconstructed Surfaces. <i>Physical Review Letters</i> , <b>1975</b> , 34, 1385-1388	7.4	109
201	Excitonic effects in the optical properties of a SiC sheet and nanotubes. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	108
200	Self-Consistent Pseudopotential Calculation for a Metal-Semiconductor Interface. <i>Physical Review Letters</i> , <b>1975</b> , 35, 866-869	7.4	107
199	Environmental Screening Effects in 2D Materials: Renormalization of the Bandgap, Electronic Structure, and Optical Spectra of Few-Layer Black Phosphorus. <i>Nano Letters</i> , <b>2017</b> , 17, 4706-4712	11.5	105
198	Optimization of metal dispersion in doped graphitic materials for hydrogen storage. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	105

197	Temperature dependence of the band gap of semiconducting carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 036801	7.4	105
196	NMR Chemical Shifts of Ice and Liquid Water: The Effects of Condensation. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 123-129	16.4	102
195	Quasiparticle effects in the bulk and surface-state bands of Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> topological insulators. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	101
194	Computational design of direct-bandgap semiconductors that lattice-match silicon. <i>Nature</i> , <b>2001</b> , 409, 69-71	50.4	99
193	GW method with the self-consistent Sternheimer equation. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	98
192	Theory of sodium ordering in Na <sub>x</sub> CoO <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	98
191	Theory of magnetic edge states in chiral graphene nanoribbons. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	96
190	Observation of carrier-density-dependent many-body effects in graphene via tunneling spectroscopy. <i>Physical Review Letters</i> , <b>2010</b> , 104, 036805	7.4	96
189	Structural deformation and intertube conductance of crossed carbon nanotube junctions. <i>Physical Review Letters</i> , <b>2001</b> , 86, 688-91	7.4	96
188	Quasiparticle excitation spectrum for nearly-free-electron metals. <i>Physical Review B</i> , <b>1989</b> , 39, 8198-8208	3.3	96
187	Fundamentals of Condensed Matter Physics <b>2016</b> ,		96
186	Bottom-Up Synthesis of N = 13 Sulfur-Doped Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 2684-2687	3.8	95
185	Angle-resolved photoemission spectra of graphene from first-principles calculations. <i>Nano Letters</i> , <b>2009</b> , 9, 4234-9	11.5	93
184	Bound excitons in metallic single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2007</b> , 7, 1626-30	11.5	93
183	Ab initio study of hot electrons in GaAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5291-6	11.5	92
182	Quasiparticle band structure of ZnS and ZnSe. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	92
181	Ab initio study of silicon in the R8 phase. <i>Physical Review B</i> , <b>1997</b> , 56, 6662-6668	3.3	91
180	Tunable excitons in bilayer graphene. <i>Science</i> , <b>2017</b> , 358, 907-910	33.3	89

179	Spin polarization of photoelectrons from topological insulators. <i>Physical Review Letters</i> , <b>2012</b> , 109, 097601	7.4	82
178	Physical origin of satellites in photoemission of doped graphene: an ab initio GW plus cumulant study. <i>Physical Review Letters</i> , <b>2013</b> , 110, 146801	7.4	82
177	Hydrostatic pressure effects on the structural and electronic properties of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 3352-3359	1.3	82
176	Excitons and optical properties of alpha-quartz. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2613-6	7.4	81
175	Graphene Dirac fermions in one-dimensional inhomogeneous field profiles: Transforming magnetic to electric field. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	80
174	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer WS <sub>2</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 123, 076801	7.4	75
173	First-principles DFT+GW study of oxygen vacancies in rutile TiO <sub>2</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	75
172	Structural and electronic properties of carbon in hybrid diamond-graphite structures. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	75
171	Doping effects on the electronic and structural properties of CoO <sub>2</sub> : An LSDA+U study. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	73
170	Theory of semiconductor surface states and metal-semiconductor interfaces. <i>Journal of Vacuum Science and Technology</i> , <b>1976</b> , 13, 790-797		71
169	Defect-Induced Modification of Low-Lying Excitons and Valley Selectivity in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , <b>2018</b> , 121, 167402	7.4	69
168	Tuning charge and correlation effects for a single molecule on a graphene device. <i>Nature Communications</i> , <b>2016</b> , 7, 13553	17.4	66
167	Tunable excitons in biased bilayer graphene. <i>Nano Letters</i> , <b>2010</b> , 10, 426-31	11.5	66
166	First-principles study of electron linewidths in graphene. <i>Physical Review Letters</i> , <b>2009</b> , 102, 076803	7.4	65
165	Direct measurement of quantum phases in graphene via photoemission spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	64
164	Klein tunneling and supercollimation of pseudospin-1 electromagnetic waves. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	62
163	Spectral functions of the uniform electron gas via coupled-cluster theory and comparison to the GW and related approximations. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	62
162	Large electron-phonon interactions from FeSe phonons in a monolayer. <i>New Journal of Physics</i> , <b>2015</b> , 17, 073027	2.9	61



161	Ab initio NMR Chemical Shift of Diamond, Chemical-Vapor-Deposited Diamond, and Amorphous Carbon. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2340-2343	7.4	61
160	NMR Chemical Shifts in Hard Carbon Nitride Compounds. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3388-3391	7.4	61
159	Systematic determination of absolute absorption cross-section of individual carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7564-9	11.5	59
158	Quasiparticle energy of semicore d electrons in ZnS: Combined LDA+U and GW approach. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	59
157	Anomalous quasiparticle lifetime in graphite: band structure effects. <i>Physical Review Letters</i> , <b>2001</b> , 87, 246405	7.4	59
156	Phonon Softening and Superconductivity in Tellurium under Pressure. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1151-1154	7.4	59
155	Evaluation of quasiparticle energies for semiconductors without inversion symmetry. <i>Physical Review B</i> , <b>1989</b> , 40, 3162-3168	3.3	58
154	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	57
153	Electron-hole interaction in carbon nanotubes: novel screening and exciton excitation spectra. <i>Nano Letters</i> , <b>2009</b> , 9, 1330-4	11.5	57
152	Enhanced electron-hole interaction and optical absorption in a silicon nanowire. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	57
151	Gate Switchable Transport and Optical Anisotropy in 90° Twisted Bilayer Black Phosphorus. <i>Nano Letters</i> , <b>2016</b> , 16, 5542-6	11.5	56
150	Coexistence of sharp quasiparticle dispersions and disorder features in graphite. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	56
149	Strong correlations and orbital texture in single-layer 1T-TaSe <sub>2</sub> . <i>Nature Physics</i> , <b>2020</b> , 16, 218-224	16.2	56
148	Hierarchical On-Surface Synthesis of Graphene Nanoribbon Heterojunctions. <i>ACS Nano</i> , <b>2018</b> , 12, 2193-2209	11.5	55
147	Hypothetical hard structures of carbon with cubic symmetry. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	55
146	A dielectric-defined lateral heterojunction in a monolayer semiconductor. <i>Nature Electronics</i> , <b>2019</b> , 2, 60-65	28.4	53
145	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. <i>2D Materials</i> , <b>2018</b> , 5, 021002	5.9	53
144	Coupling of nonlocal potentials to electromagnetic fields. <i>Physical Review Letters</i> , <b>2001</b> , 87, 087402	7.4	51

143	Quasiparticle electronic structure of bismuth telluride in the GW approximation. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	50
142	Quasiparticle excitations and charge transition levels of oxygen vacancies in hafnia. <i>Physical Review Letters</i> , <b>2011</b> , 107, 216803	7.4	50
141	Negative differential resistance in transport through organic molecules on silicon. <i>Physical Review Letters</i> , <b>2007</b> , 98, 066807	7.4	50
140	First-principles scattering-state approach for nonlinear electrical transport in nanostructures. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	50
139	GW approach to Anderson model out of equilibrium: Coulomb blockade and false hysteresis in the $I$ - $V$ characteristics. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	47
138	Nonuniform sampling schemes of the Brillouin zone for many-electron perturbation-theory calculations in reduced dimensionality. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	46
137	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	46
136	Inducing metallicity in graphene nanoribbons via zero-mode superlattices. <i>Science</i> , <b>2020</b> , 369, 1597-1603	3.3	46
135	Orbitally Matched Edge-Doping in Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 807-813	16.4	45
134	Ab initio GW quasiparticle calculation of small alkali-metal clusters. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	44
133	Selection rules for one- and two-photon absorption by excitons in carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	43
132	Exchange-driven intravalley mixing of excitons in monolayer transition metal dichalcogenides. <i>Nature Physics</i> , <b>2019</b> , 15, 228-232	16.2	43
131	Physical origin of giant excitonic and magneto-optical responses in two-dimensional ferromagnetic insulators. <i>Nature Communications</i> , <b>2019</b> , 10, 2371	17.4	42
130	Molecular Self-Assembly in a Poorly Screened Environment: F4TCNQ on Graphene/BN. <i>ACS Nano</i> , <b>2015</b> , 9, 12168-73	16.7	42
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