

# Ki Wook Kim

## 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.

211 papers	6,586 citations	43 h-index	74 g-index
237 ext. papers	7,120 ext. citations	3.1 avg, IF	5.69 L-index

#	Paper	IF	Citations
211	Many-body effects in valleytronics: direct measurement of valley lifetimes in single-layer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2014</b> , 14, 202-6	11.5	381
210	Intrinsic electrical transport properties of monolayer silicene and MoS <sub>2</sub> from first principles. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	303
209	Equally efficient interlayer exciton relaxation and improved absorption in epitaxial and nonepitaxial MoS <sub>2</sub> /WS <sub>2</sub> heterostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 486-91	11.5	282
208	Intrinsic transport properties of electrons and holes in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	234
207	First-principles analysis of electron-phonon interactions in graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	164
206	First-principles analysis of lattice thermal conductivity in monolayer and bilayer graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	151
205	Spin field effect transistor with a graphene channel. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 153105	3.4	150
204	T-shaped ballistic spin filter. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 775-777	3.4	147
203	Dispersion of polar optical phonons in wurtzite quantum wells. <i>Physical Review B</i> , <b>1999</b> , 59, 5013-5020	3.3	147
202	Optical-phonon confinement and scattering in wurtzite heterostructures. <i>Physical Review B</i> , <b>1998</b> , 58, 4860-4865	3.3	140
201	Progressive suppression of spin relaxation in two-dimensional channels of finite width. <i>Physical Review B</i> , <b>2000</b> , 61, 13115-13120	3.3	139
200	Spin relaxation of conduction electrons in bulk III-V semiconductors. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	125
199	Electron-optical-phonon scattering in wurtzite crystals. <i>Physical Review B</i> , <b>1997</b> , 56, 997-1000	3.3	113
198	Electron-optical-phonon scattering rates in a rectangular semiconductor quantum wire. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 319-327	2.5	110
197	Exciton valley relaxation in a single layer of WS <sub>2</sub> measured by ultrafast spectroscopy. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	102
196	Elastic vibrations of microtubules in a fluid. <i>Physical Review E</i> , <b>1996</b> , 53, 1003-1010	2.4	101
195	T-shaped spin filter with a ring resonator. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 4001-4005	2.5	92

194	Electron g factor engineering in III-V semiconductors for quantum communications. <i>Electronics Letters</i> , <b>2001</b> , 37, 464	1.1	86
193	Theoretical study of electron transport in gallium nitride. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 2834-2836	2.5	85
192	Electron-acoustic-phonon scattering rates in rectangular quantum wires. <i>Physical Review B</i> , <b>1994</b> , 50, 1733-1738	3.3	81
191	Deutsch-Jozsa algorithm as a test of quantum computation. <i>Physical Review A</i> , <b>1998</b> , 58, R1633-R1636	2.6	79
190	Surface polar phonon dominated electron transport in graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 232105	3.4	77
189	Transfer matrix method for interface optical-phonon modes in multiple-interface heterostructure systems. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 3363-3367	2.5	72
188	Electron-optical-phonon interaction in binary/ternary heterostructures. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 6289-6292	2.5	72
187	Quantized acoustic phonon modes in quantum wires and quantum dots. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 4670-4675	2.5	69
186	Quantized vibrational modes of nanospheres and nanotubes in the elastic continuum model. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 5107-5111	2.5	68
185	Size dependence of the thermal broadening of the exciton linewidth in GaAs/Ga <sub>0.7</sub> Al <sub>0.3</sub> As single quantum wells. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 1411-1413	3.4	68
184	Polarization eigenvectors of surface-optical phonon modes in a rectangular quantum wire. <i>Physical Review B</i> , <b>1990</b> , 42, 1488-1491	3.3	68
183	Long-wavelength optical phonons in ternary nitride-based crystals. <i>Physical Review B</i> , <b>1998</b> , 58, 15283-15287	3.3	63
182	Envelope-function formalism for valence bands in wurtzite quantum wells. <i>Physical Review B</i> , <b>1996</b> , 53, 1997-2009	3.3	63
181	Phonon-mediated electron-spin phase diffusion in a quantum dot. <i>Physical Review Letters</i> , <b>2004</b> , 92, 026601	3.4	61
180	Band engineering and magnetic doping of epitaxial graphene on SiC (0001). <i>Physical Review Letters</i> , <b>2010</b> , 104, 146801	7.4	60
179	Thermoelectric properties of graphene nanoribbons, junctions and superlattices. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 372202	1.8	58
178	Influence of electron-electron scattering on transport characteristics in monolayer graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 082101	3.4	54
177	Unusual magnetoresistance in a topological insulator with a single ferromagnetic barrier. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243112	3.4	52

176	Effect of an external magnetic field on electron-spin dephasing induced by hyperfine interaction in quantum dots. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	51
175	Thermal conductivity of Si/Ge superlattices: A realistic model with a diatomic unit cell. <i>Physical Review B</i> , <b>2000</b> , 62, 6896-6899	3-3	50
174	Energy-dependent electron scattering via interaction with optical phonons in wurtzite crystals and quantum wells. <i>Physical Review B</i> , <b>2000</b> , 61, 2034-2040	3-3	47
173	First-principles calculation of thermal transport in metal/graphene systems. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	46
172	Phonon engineering in nanostructures: Controlling interfacial thermal resistance in multilayer-graphene/dielectric heterojunctions. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 113111	3-4	45
171	Electron-acoustic-phonon scattering rates in cylindrical quantum wires. <i>Physical Review B</i> , <b>1995</b> , 51, 4695-4698	3-3	45
170	Hydrodynamic electron-transport model: Nonparabolic corrections to the streaming terms. <i>Physical Review B</i> , <b>1991</b> , 44, 11119-11132	3-3	45
169	Electrically controlled magnetization in ferromagnet-topological insulator heterostructures. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	43
168	Transition from longitudinal-optical phonon scattering to surface-optical phonon scattering in polar semiconductor superlattices. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 1093-1095	3-4	43
167	Theoretical calculation of longitudinal-optical-phonon lifetime in GaAs. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 3905-3907	2-5	42
166	Hole scattering and optical transitions in wide-band-gap nitrides: Wurtzite and zinc-blende structures. <i>Physical Review B</i> , <b>1997</b> , 55, 4360-4375	3-3	40
165	Prohibition of equilibrium spin currents in multiterminal ballistic devices. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	40
164	Phonon assisted intersubband transitions in step quantum well structures. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 2155-2164	2-5	40
163	Multiple coexisting intercalation structures of sodium in epitaxial graphene-SiC interfaces. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	39
162	Electron-phonon interactions in bilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	37
161	. <i>IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems</i> , <b>2006</b> , 22, 12-21		37
160	Design of white light-emitting diodes using InGaN/AlInGaN quantum-well structures. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 672-674	3-4	35
159	Piezoelectric scattering of carriers from confined acoustic modes in cylindrical quantum wires. <i>Physical Review B</i> , <b>1993</b> , 48, 1936-1938	3-3	35

158	Terahertz generation in submicron GaN diodes within the limited space-charge accumulation regime. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 064507	2.5	34
157	NMR quantum computation with indirectly coupled gates. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	34
156	Generation and amplification of sub-THz coherent acoustic phonons under the drift of two-dimensional electrons. <i>Physical Review B</i> , <b>2000</b> , 62, 7459-7469	3.3	33
155	Charge transfer equilibria in ambient-exposed epitaxial graphene on (0001 $\bar{1}$ ) 6 H-SiC. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113706	2.5	32
154	Alternate State Variables for Emerging Nanoelectronic Devices. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 8, 66-75	2.6	32
153	Electron spin relaxation under drift in GaAs. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3686-3688	3.4	32
152	Electron intersubband scattering by confined and localized phonons in real quantum wires. <i>Journal of Physics Condensed Matter</i> , <b>1992</b> , 4, 4959-4970	1.8	32
151	Scalable solid-state quantum computer based on quantum dot pillar structures. <i>Physical Review B</i> , <b>2000</b> , 61, 7526-7535	3.3	30
150	Strain effects on valence band structure in wurtzite GaN quantum wells. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 2504-2506	3.4	30
149	Confined phonon modes and hot-electron energy relaxation in semiconductor microstructures. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B60-B66	1.8	30
148	Acoustic phonon quantization in buried waveguides and resonators. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 2143-2151	1.8	29
147	Tunable terahertz-frequency resonances and negative dynamic conductivity of two-dimensional electrons in group-III nitrides. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 6488-6491	2.5	28
146	Electronic properties of the graphene/6H-SiC(0001 $\bar{1}$ ) interface: A first-principles study. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	27
145	Continuum model of optical phonons in a nanotube. <i>Superlattices and Microstructures</i> , <b>2001</b> , 29, 405-409	2.8	26
144	In-plane light-hole g factor in strained cubic heterostructures. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	26
143	Elastic spin-relaxation processes in semiconductor quantum dots. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	25
142	Spin-lattice relaxation in Si quantum dots. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	25
141	Dramatic reduction in the longitudinal-optical phonon emission rate in polar-semiconductor quantum wires. <i>Philosophical Magazine Letters</i> , <b>1992</b> , 65, 173-176	1	25

- 140 Electron transport properties of bilayer graphene. *Physical Review B*, **2011**, 84, 3-3 24
- 139 Strain effects on optical gain in wurtzite GaN. *Journal of Applied Physics*, **1997**, 82, 386-391 2-5 24
- 138 Magnetoresistance in bilayer graphene via ferromagnet proximity effects. *Physical Review B*, **2008**, 77, 3-3 24
- 137 Highly anisotropic electronic transport properties of monolayer and bilayer phosphorene from first principles. *Applied Physics Letters*, **2016**, 109, 053108 3-4 24
- 136 Two dimensional crystal tunneling devices for THz operation. *Applied Physics Letters*, **2012**, 101, 263112 3-4 23
- 135 Generation of high-frequency coherent acoustic phonons in superlattices under hopping transport. I. Linear theory of phonon instability. *Physical Review B*, **2002**, 65, 3-3 23
- 134 Reduction of interface phonon modes using metal-semiconductor heterostructures. *Journal of Applied Physics*, **1993**, 73, 2338-2342 2-5 23
- 133 Voltage-driven magnetic bifurcations in nanomagnet/topological insulator heterostructures. *Physical Review B*, **2014**, 89, 3-3 22
- 132 Thermal transport properties of metal/MoS<sub>2</sub> interfaces from first principles. *Journal of Applied Physics*, **2014**, 116, 034302 2-5 21
- 131 Tunable photogalvanic effect on topological insulator surfaces via proximity interactions. *Physical Review B*, **2012**, 86, 3-3 21
- 130 Hot electrons in group-III nitrides at moderate electric fields. *Applied Physics Letters*, **2002**, 80, 2317-2319 3-4 21
- 129 Optically driven quantum-dot quantum computer. *Physical Review A*, **1999**, 60, 4146-4149 2-6 21
- 128 Simplified microscopic model for electron-optical-phonon interactions in quantum wells. *Physical Review B*, **1993**, 48, 14671-14674 3-3 21
- 127 A comparison of minority electron transport in In<sub>0.53</sub>Ga<sub>0.47</sub>As and GaAs. *Applied Physics Letters*, **1993**, 63, 48-50 3-4 20
- 126 Effects of interface phonon scattering in multiheterointerface structures. *Journal of Applied Physics*, **1992**, 72, 2282-2287 2-5 20
- 125 Electrical control of exchange bias mediated by graphene. *Physical Review Letters*, **2008**, 101, 147206 7-4 19
- 124 Streaming distribution of two-dimensional electrons in III-N heterostructures for electrically pumped terahertz generation. *Applied Physics Letters*, **2003**, 82, 2643-2645 3-4 19
- 123 Electrophonon resonance in cylindrical quantum wires. *Physical Review B*, **1998**, 58, 3580-3583 3-3 19

122	Quantum computing with complex instruction sets. <i>Physical Review A</i> , <b>1999</b> , 59, 1098-1101	2.6	18
121	Strong substrate effects of Joule heating in graphene electronics. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 2331-2334	3.4	17
120	Cerenkov generation of high-frequency confined acoustic phonons in quantum wells. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1869-1871	3.4	17
119	Hot-Electron Transistors for Terahertz Operation Based on Two-Dimensional Crystal Heterostructures. <i>Physical Review Applied</i> , <b>2014</b> , 2,	4.3	16
118	Ab initio thermal transport properties of nanostructures from density functional perturbation theory. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 492204	1.8	16
117	Electron interaction with confined acoustic phonons in cylindrical quantum wires via deformation potential. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 2815-2822	2.5	16
116	Electron high-field transport in multisubband quantum wire structures. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B299-B301	1.8	16
115	Voltage Control of Antiferromagnetic Phases at Near-Terahertz Frequencies. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	15
114	Transient ballistic transport in GaN. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 2901-2903	2.5	15
113	Observation of optical phonon instability induced by drifting electrons in semiconductor nanostructures. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1968-1970	3.4	14
112	Manipulating the L-valley electron g factor in Si-Ge heterostructures. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	14
111	Electron spin relaxation in semiconducting carbon nanotubes: The role of hyperfine interaction. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	13
110	Construction of higher-moment terms in the hydrodynamic electron-transport model. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 6197-6207	2.5	13
109	Electron velocity-field characteristics of In <sub>0.52</sub> Al <sub>0.48</sub> As. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 1202-1204	3.4	13
108	Controlling electron propagation on a topological insulator surface via proximity interactions. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	12
107	Dynamics of cytoskeletal filaments. <i>Physical Review E</i> , <b>1996</b> , 54, 1816-1823	2.4	12
106	A Monte Carlo study of hot electron injection and interface state generation model for silicon metal-oxide-semiconductor field-effect transistors. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 5087-5094	2.5	12
105	Electrical switching of antiferromagnets via strongly spin-orbit coupled materials. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 023907	2.5	11

104	Large-Signal Analysis of Terahertz Generation in Submicrometer GaN Diodes. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 765-771	4	11
103	Electron-phonon interaction via the Pekar mechanism in nanostructures. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	11
102	High-frequency small-signal conductivity of hot electrons in nitride semiconductors. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3630-3632	3.4	11
101	Coherent optical phonon generation by the electric current in quantum wells. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4178-4180	3.4	11
100	Generation of coherent confined LO phonons under the drift of two-dimensional electrons. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	11
99	Zeeman Effect in Wurtzite-Based and Strained Cubic Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>1999</b> , 215, 235-239	1.3	11
98	Electron spin relaxation via flexural phonon modes in semiconducting carbon nanotubes. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	10
97	Applicability of the Fermi golden rule and the possibility of low-field runaway transport in nitrides. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 6233-6246	1.8	10
96	Novel charge injection transistors with heterojunction source (launcher) and drain (blocker) configurations. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 174-176	3.4	10
95	Thin-film topological insulator-ferromagnet heterostructures for terahertz detection. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 061116	3.4	9
94	Nonlinear magnetic dynamics in a nanomagnetic topological insulator heterostructure. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	9
93	Near-surface electrons and acoustic phonons: Energy and momentum relaxation. <i>Physical Review B</i> , <b>1997</b> , 56, 15770-15781	3.3	9
92	Envelope-function analysis of wurtzite InGaN/GaN quantum well light emitting diodes. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 723-728	2.5	9
91	Phase-plane analysis and classification of transient regimes for high-field electron transport in nitride semiconductors. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 6492-6503	2.5	9
90	Spin relaxation of two-dimensional holes in strained asymmetric SiGe quantum wells. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	9
89	An investigation of the effects of doping profile variations on AlGaAs/GaAs high electron mobility transistor performance. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 4593-4600	2.5	9
88	Dielectric response functions of heavily doped zincblende semiconductors with finite particle lifetime. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 4139-4147	2.5	9
87	Toward enhanced thermoelectric effects in Bi <sub>2</sub> Te <sub>3</sub> /Sb <sub>2</sub> Te <sub>3</sub> heterostructures. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 035005	1.8	8



86	Carrier capture in pseudomorphically strained wurtzite GaN quantum-well lasers. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 820-822	3.4	8
85	Anisotropic hole scattering in hexagonal GaN. <i>Semiconductor Science and Technology</i> , <b>1997</b> , 12, 280-283	1.8	8
84	Tunable waveguiding in electrically programmable VO <sub>2</sub> -based photonic crystals. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 113106	2.5	8
83	Transmission of longitudinal optical phonons through a barrier in uniaxial crystals. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	8
82	Spin-phase relaxation of two-dimensional holes localized in a fluctuating potential. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	8
81	Renormalization of acoustic phonon spectra and rudiments of the Peierls transition in free-standing quantum wires. <i>Physical Review B</i> , <b>1998</b> , 58, 16360-16368	3.3	8
80	Frequencies of confined longitudinal-optical phonon modes in GaAs/GaP short-period strained-layer superlattices. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 6179-6183	2.5	8
79	Currentless reversal of N $\beta$ l vector in antiferromagnets. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
78	Strain induced room temperature ferromagnetism in epitaxial magnesium oxide thin films. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 165309	2.5	7
77	Graphene spin capacitor for magnetic field sensing. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 013106	3.4	7
76	Electrically controlled magnetic switching based on graphene-magnet composite structures. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 064507	2.5	7
75	Terahertz generation in GaN diodes operating in pulsed regime limited by self-heating. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 222106	3.4	7
74	Weak ferromagnetism of antiferromagnetic domains in graphene with defects. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
73	Runaway effects in nanoscale group-III nitride semiconductor structures. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	7
72	Designing a heterostructure for the quantum receiver. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2857-2859	3.4	7
71	Generation of high-frequency coherent acoustic phonons in superlattices under hopping transport. II. Steady-state phonon population and electric current in generation regime. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	7
70	Carrier capture in cylindrical quantum wires. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 3480-3482	3.4	7
69	Calculation of minority-carrier mobilities in heavily doped p-type semiconductors in the dielectric-function formalism. <i>Physical Review B</i> , <b>1993</b> , 47, 16257-16266	3.3	7

68	Effects of band mixing on hole tunneling times in GaAs/AlAs double-barrier heterostructures. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1423-1425	3-4	7
67	Theory of optical-phonon interactions in a rectangular quantum wire <b>1991</b> ,		7
66	Negative small-signal impedance of nanoscale GaN diodes in the terahertz frequency regime. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 142117	3-4	6
65	Laterally doped heterostructures for III-V lasing devices. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4616-4618	3-4	6
64	Amplification of transverse acoustic phonons in quantum well heterostructures with piezoelectric interaction. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 3934-3941	2-5	6
63	Bias-driven spontaneous spin-valley polarization in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	5
62	Spin Logic via Controlled Correlation in Nanomagnetic Dirac-Fermion Heterostructures. <i>Physical Review Applied</i> , <b>2014</b> , 2,	4-3	5
61	Generation-recombination noise in bipolar graphene. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 044327	2-5	5
60	Subpicosecond Raman studies of electric-field-induced optical phonon instability in an In <sub>0.53</sub> Ga <sub>0.47</sub> As-based semiconductor nanostructure. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 7961-7974	1-8	5
59	Nonvolatile bistability effect based on the electrically controlled phase transition in scaled magnetic semiconductor nanostructures. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	5
58	Computing carrier interactions with confined and excluded phonons in nanostructures of complex geometries. <i>Physical Review B</i> , <b>1999</b> , 59, 10212-10216	3-3	5
57	Calculational approach for the structure of electron and hole levels in quantum dots of varying shape. <i>Physical Review B</i> , <b>1999</b> , 60, 7748-7751	3-3	5
56	Impact of k-space transfer and band nonparabolicity on electron transport in a GaAs ballistic diode. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B354-B356	1-8	5
55	Transition from LO-phonon to SO-phonon scattering in mesoscale structures. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, B49-B51	1-8	5
54	Effects of doping variations on electron transport in GaAs n <sup>+</sup> -n-n <sup>+</sup> structures. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 5695-5701	2-5	5
53	Electron spin relaxation in carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	4
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