

# Chi-Te Liang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9305318/chi-te-liang-publications-by-year.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

217  
papers

4,335  
citations

28  
h-index

61  
g-index

238  
ext. papers

4,765  
ext. citations

4.1  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
217	Disorder-induced 2D superconductivity in a NbTiN film grown on Si by ultrahigh-vacuum magnetron sputtering. <i>Superconductor Science and Technology</i> , <b>2022</b> , 35, 064003	3.1	0
216	A Newly Designed ZnO/CdS/CuO:Co Solar Cell and Its Performance. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	2.3	2
215	Ferroelectric 2D ice under graphene confinement. <i>Nature Communications</i> , <b>2021</b> , 12, 6291	17.4	3
214	Rational design of hetero-dimensional C-ZnO/MoS nanocomposite anchored on 3D mesoporous carbon framework towards synergistically enhanced stability and efficient visible-light-driven photocatalytic activity. <i>Chemosphere</i> , <b>2021</b> , 266, 129148	8.4	14
213	Graphene quantum Hall effect parallel resistance arrays. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
212	Abrikosov vortex corrections to effective magnetic field enhancement in epitaxial graphene. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
211	Highly sensitive broadband binary photoresponse in gateless epitaxial graphene on 4HβSiC. <i>Carbon</i> , <b>2021</b> , 184, 72-81	10.4	1
210	Two-dimensional molybdenum trioxide nanoflakes wrapped with interlayer-expanded molybdenum disulfide nanosheets: Superior performances in supercapacitive energy storage and visible-light-driven photocatalysis. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 34663-34678	6.7	0
209	Magnetotransport in hybrid InSe/monolayer graphene on SiC. <i>Nanotechnology</i> , <b>2021</b> , 32, 155704	3.4	1
208	Development of gateless quantum Hall checkerboard p̄n junction devices. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 345302	3	
207	Spin Hall angle and spin diffusion length of permalloy. <i>AIP Advances</i> , <b>2020</b> , 10, 015041	1.5	1
206	Accessing ratios of quantized resistances in graphene p̄n junction devices using multiple terminals. <i>AIP Advances</i> , <b>2020</b> , 10, 025112	1.5	3
205	Berezinskii-Kosterlitz-Thouless transition in an Al superconducting nanofilm grown on GaAs by molecular beam epitaxy. <i>Nanotechnology</i> , <b>2020</b> , 31, 205002	3.4	2
204	Design Optimization for Maximized Thermoelectric Generator Performance. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 306-310	1.9	10
203	A Self-Assembled Graphene Ribbon Device on SiC. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 204-212	4	0
202	2D CTAB-MoSe Nanosheets and 0D MoSe Quantum Dots: Facile Top-Down Preparations and Their Peroxidase-Like Catalytic Activity for Colorimetric Detection of Hydrogen Peroxide. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
201	Unprecedented random lasing in 2D organolead halide single-crystalline perovskite microrods. <i>Nanoscale</i> , <b>2020</b> , 12, 18269-18277	7.7	10

200	Atypical Quantized Resistances in Millimeter-Scale Epitaxial Graphene Junctions. <i>Carbon</i> , <b>2019</b> , 154, 230-234	10
199	Manetoresistance of Ultralow-Hole-Density Monolayer Epitaxial Graphene Grown on SiC. <i>Materials</i> , <b>2019</b> , 12,	3.5 1
198	Ultrasensitive Gas Sensors Based on Vertical Graphene Nanowalls/SiC/Si Heterostructure. <i>ACS Sensors</i> , <b>2019</b> , 4, 406-412	9.2 20
197	Conductance interference effects in an electron-beam-resist-free chemical vapor deposition graphene device sandwiched between two h-BN sheets. <i>Carbon</i> , <b>2019</b> , 154, 238-243	10.4 2
196	Detection of torque effects in Co/Pt via ferromagnetic resonance. <i>AIP Advances</i> , <b>2019</b> , 9, 125135	1.5
195	Modulation of spin-charge conversion in silicon. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 232101	3.4 2
194	Topological Transition in a 3 nm Thick Al Film Grown by Molecular Beam Epitaxy. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-6	3.2
193	Large, non-saturating magnetoresistance in single layer chemical vapor deposition graphene with an h-BN capping layer. <i>Carbon</i> , <b>2018</b> , 136, 211-216	10.4 6
192	Random Lasers: Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network (Advanced Optical Materials 16/2018). <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1870063	8.1
191	Magnetotransport properties and pseudogap phase diagram of superconducting EuBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> thin films: the influence of Eu substitution. <i>New Journal of Physics</i> , <b>2018</b> , 20, 063047	2.9
190	High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33450-33456	9.5 20
189	Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800382	8.1 25
188	Hot Carriers in CVD-Grown Graphene Device with a Top h-BN Layer. <i>Journal of Nanomaterials</i> , <b>2018</b> , 2018, 1-7	3.2 3
187	Temperature dependence of electron density and electron-electron interactions in monolayer epitaxial graphene grown on SiC. <i>2D Materials</i> , <b>2017</b> , 4,	5.9 9
186	Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> microboxes for efficient removal of heavy metal ions. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7751-7757	3.6 19
185	Atomic-scale epitaxial aluminum film on GaAs substrate. <i>AIP Advances</i> , <b>2017</b> , 7, 075213	1.5 8
184	Edge-state-mediated collective charging effects in a gate-controlled quantum dot array. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3 2
183	Thickness-Dependent Self-Induced Spin-Pumping in Cobalt Thin Films. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2 1

182	Crossover from Efros-Shklovskii to Mott variable range hopping in monolayer epitaxial graphene grown on SiC. <i>Chinese Journal of Physics</i> , <b>2017</b> , 55, 1235-1241	3.5	7
181	Chemical-doping-driven crossover from graphene to "ordinary metal" in epitaxial graphene grown on SiC. <i>Nanoscale</i> , <b>2017</b> , 9, 11537-11544	7.7	11
180	Unusual renormalization group (RG) flow and temperature-dependent phase transition in strongly-insulating monolayer epitaxial graphene. <i>RSC Advances</i> , <b>2017</b> , 7, 31333-31337	3.7	0
179	Landau-level mixing, floating-up extended states, and scaling behavior in a GaAs-based two-dimensional electron system containing self-assembled InAs dots. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 085011	1.8	
178	Variable range hopping and nonlinear transport in monolayer epitaxial graphene grown on SiC. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 105008	1.8	8
177	Insulator-quantum Hall transition in monolayer epitaxial graphene. <i>RSC Advances</i> , <b>2016</b> , 6, 71977-71982	3.7	11
176	Epitaxial growth of Bi <sub>2</sub> Te <sub>3</sub> topological insulator thin films by temperature-gradient induced physical vapor deposition (PVD). <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 989-997	5.7	19
175	Observation of quantum Hall plateau-plateau transition and scaling behavior of the zeroth Landau level in graphene p-n junctions. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
174	Green synthesis of SiO <sub>2</sub> /QD nanocomposites as cost-effective catalysts for oxygen reduction reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 108941-108947	3.7	6
173	A study on the epitaxial Bi <sub>2</sub> Se <sub>3</sub> thin film grown by vapor phase epitaxy. <i>AIP Advances</i> , <b>2016</b> , 6, 065218	1.5	12
172	Unveiling conducting pathways embedded in strongly disordered graphene. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 115001	1.8	1
171	Probing weak localization in chemical vapor deposition graphene wide constriction using scanning gate microscopy. <i>Nanotechnology</i> , <b>2016</b> , 27, 075601	3.4	3
170	Intrinsic magnetic properties of plant leaf-derived graphene quantum dots. <i>Materials Letters</i> , <b>2016</b> , 170, 110-113	3.3	6
169	Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1282-1289	35.4	125
168	Ballistic Transport in 1D GaAs/AlGaAs Heterostructures <b>2016</b> ,		
167	Charge Trapping in Monolayer and Multilayer Epitaxial Graphene. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-4	3.2	2
166	High Current-Induced Electron Redistribution in a CVD-Grown Graphene Wide Constriction. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-7	3.2	2
165	Electrical-Polarization-Induced Ultrahigh Responsivity Photodetectors Based on Graphene and Graphene Quantum Dots. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 620-628	15.6	74

164	Imaging coherent transport in chemical vapor deposition graphene wide constriction by scanning gate microscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 123105	3.4	2
163	Robust fractional quantum Hall effect in the N=2 Landau level in bilayer graphene. <i>Nature Communications</i> , <b>2016</b> , 7, 13908	17.4	17
162	Probing electron-electron interactions in multilayer epitaxial graphene grown on SiC using temperature-dependent Hall slope. <i>Solid State Communications</i> , <b>2016</b> , 236, 41-44	1.6	1
161	Linear magnetoresistance in monolayer epitaxial graphene grown on SiC. <i>Materials Letters</i> , <b>2016</b> , 174, 118-121	3.3	10
160	Thermometry for Dirac fermions in graphene. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 1-6	0.6	1
159	Extrinsic Origin of Persistent Photoconductivity in Monolayer MoS <sub>2</sub> Field Effect Transistors. <i>Scientific Reports</i> , <b>2015</b> , 5, 11472	4.9	94
158	Pure electron-electron dephasing in percolative aluminum ultrathin film grown by molecular beam epitaxy. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 71	5	7
157	Photoluminescent graphene quantum dots for in vivo imaging of apoptotic cells. <i>Nanoscale</i> , <b>2015</b> , 7, 2504-10	7.7	83
156	Low carrier density epitaxial graphene devices on SiC. <i>Small</i> , <b>2015</b> , 11, 90-5	11	49
155	Sunlight-activated graphene-heterostructure transparent cathodes: enabling high-performance n-graphene/p-Si Schottky junction photovoltaics. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2085-2092	35.4	32
154	Weak localization and microwave-irradiated transport in multilayer epitaxial graphene grown on SiC. <i>Materials Research Express</i> , <b>2015</b> , 2, 115002	1.7	
153	Ultrahigh-gain photodetectors based on atomically thin graphene-MoS <sub>2</sub> heterostructures. <i>Scientific Reports</i> , <b>2014</b> , 4, 3826	4.9	678
152	Spin-orbit-coupled superconductivity. <i>Scientific Reports</i> , <b>2014</b> , 4, 5438	4.9	12
151	Effective mass and Landé-factor in Si-MOSFETs near the critical density. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 424-428	0.6	1
150	Plant leaf-derived graphene quantum dots and applications for white LEDs. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 4946-4951	3.6	102
149	Hot carriers in epitaxial graphene sheets with and without hydrogen intercalation: role of substrate coupling. <i>Nanoscale</i> , <b>2014</b> , 6, 10562-8	7.7	4
148	Transport in disordered monolayer MoS <sub>2</sub> nanoflakes—evidence for inhomogeneous charge transport. <i>Nanotechnology</i> , <b>2014</b> , 25, 375201	3.4	23
147	Electron heating and current scaling in a two-dimensional electron system in close proximity to nanoscale scatterers. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 1407-1411	0.6	1

146	Non-monotonic magnetoresistance in an AlGa <sub>N</sub> /Ga <sub>N</sub> high-electron-mobility transistor structure in the ballistic region. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 1572-1576	0.6	
145	Localization and electron-electron interactions in few-layer epitaxial graphene. <i>Nanotechnology</i> , <b>2014</b> , 25, 245201	3.4	3
144	Continuous phase transitions in high-mobility Si MOSFETs at finite temperatures. <i>Superlattices and Microstructures</i> , <b>2014</b> , 75, 287-293	2.8	1
143	Optical characteristics of nonpolar a-plane ZnO thin film on (010) LiGaO <sub>2</sub> substrate. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 085004	1.8	13
142	Non-monotonic magnetoresistivity in two-dimensional electron systems. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 65, 1503-1507	0.6	3
141	Insulating state to quantum Hall-like state transition in a spin-orbit-coupled two-dimensional electron system. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 012106	3.4	2
140	Weak localization and universal conductance fluctuations in multi-layer graphene. <i>Current Applied Physics</i> , <b>2014</b> , 14, 108-111	2.6	10
139	Nitrogen-doped graphene sheets grown by chemical vapor deposition: synthesis and influence of nitrogen impurities on carrier transport. <i>ACS Nano</i> , <b>2013</b> , 7, 6522-32	16.7	229
138	Mesoscopic conductance fluctuations in multi-layer graphene. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 043117	3.4	10
137	Room-temperature violet luminescence and ultraviolet photodetection of Sb-doped ZnO/Al-doped ZnO homojunction array. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 313	5	23
136	Tunable insulator-quantum Hall transition in a weakly interacting two-dimensional electron system. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 307	5	3
135	Experimental evidence for direct insulator-quantum Hall transition in multi-layer graphene. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 214	5	9
134	Direct measurement of the spin gaps in a gated GaAs two-dimensional electron gas. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 138	5	2
133	Probing the coexistence of semiclassical transport and localization in a two-dimensional electron gas using microwave radiation. <i>Solid State Communications</i> , <b>2013</b> , 156, 45-48	1.6	2
132	Characterization of Single-Crystalline Aluminum Thin Film on (100) GaAs Substrate. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 045801	1.4	23
131	Spin polarization in a two-dimensional electron gas in GaAs. <i>Physica Scripta</i> , <b>2013</b> , 87, 045703	2.6	7
130	Fabrication and photoresponse of ZnO nanowires/CuO coaxial heterojunction. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 387	5	23
129	Dirac fermion heating, current scaling, and direct insulator-quantum Hall transition in multilayer epitaxial graphene. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 360	5	9

128	Size effects on phonon localization and Raman enhancement in silicon nanotips. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 81-85	2.3	5
127	Non-ohmic behavior of carrier transport in highly disordered graphene. <i>Nanotechnology</i> , <b>2013</b> , 24, 1652014	3.4	9
126	Synthesis of graphene-ZnO-Au nanocomposites for efficient photocatalytic reduction of nitrobenzene. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 6688-95	10.3	179
125	Clean-lifting transfer of large-area residual-free graphene films. <i>Advanced Materials</i> , <b>2013</b> , 25, 4521-6	24	139
124	Controllable disorder in a hybrid nanoelectronic system: realization of a superconducting diode. <i>Scientific Reports</i> , <b>2013</b> , 3, 2274	4.9	7
123	Experimental evidence for Efros-Shklovskii variable range hopping in hydrogenated graphene. <i>Solid State Communications</i> , <b>2012</b> , 152, 905-908	1.6	40
122	On the coexistence of localization and semiclassical transport in the low-field quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2012</b> , 44, 1558-1561	3	2
121	Wafer-scale MoS <sub>2</sub> thin layers prepared by MoO <sub>3</sub> sulfurization. <i>Nanoscale</i> , <b>2012</b> , 4, 6637-41	7.7	538
120	Growth and characterization of ZnO/ZnTe core/shell nanowire arrays on transparent conducting oxide glass substrates. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 401	5	26
119	Evidence for formation of multi-quantum dots in hydrogenated graphene. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 459	5	9
118	Electron transport in a GaPSb film. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 640	5	6
117	Electrical measurements of an AlGa <sub>n</sub> /Ga <sub>n</sub> high-electron-mobility transistor structure grown on Si. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 61, 1471-1475	0.6	1
116	Synthesis of enzyme mimics of iron telluride nanorods for the detection of glucose. <i>Chemical Communications</i> , <b>2012</b> , 48, 4079-81	5.8	56
115	Iron telluride nanorods-based system for the detection of total mercury in blood. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 243, 286-91	12.8	7
114	Efficient reduction of graphene oxide catalyzed by copper. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3083-8	3.6	11
113	Insulator, semiclassical oscillations and quantum Hall liquids at low magnetic fields. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 405601	1.8	5
112	Probing temperature-driven flow lines in a gated two-dimensional electron gas with tunable spin-splitting. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 405801	1.8	6
111	Transport behavior and negative magnetoresistance in chemically reduced graphene oxide nanofilms. <i>Nanotechnology</i> , <b>2011</b> , 22, 335701	3.4	25



110	Electron-electron interaction in high-quality epitaxial graphene. <i>New Journal of Physics</i> , <b>2011</b> , 13, 113005.	2.9	5
109	Effect of the electromagnetic environment on the dynamics of charge and phase particles in one-dimensional arrays of small Josephson junctions. <i>Europhysics Letters</i> , <b>2011</b> , 96, 47004	1.6	3
108	The growth and characterization of ZnO/ZnTe core-shell nanowires and the electrical properties of ZnO/ZnTe core-shell nanowire field effect transistor. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 2042-6	1.3	8
107	Application of Impedance Measurement Technology in Distinguishing Different Tea Samples with Ppy/SWCNT Composite Sensing Material. <i>Journal of the Chinese Chemical Society</i> , <b>2011</b> , 58, 714-722	1.5	6
106	Magnetotransport in an aluminum thin film on a GaAs substrate grown by molecular beam epitaxy. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 102	5	1
105	On the direct insulator-quantum Hall transition in two-dimensional electron systems in the vicinity of nanoscaled scatterers. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 131	5	8
104	A delta-doped quantum well system with additional modulation doping. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 139	5	9
103	Ballistic Transport in 1D GaAs/AlGaAs Heterostructures <b>2011</b> , 279-325		2
102	Theory of the quantum Hall effect in finite graphene devices. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	11
101	Chiral angle dependence of resonance window widths in $(2n+m)$ families of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 103118	3.4	8
100	Proposed nonmagnetic Stern-Gerlach experiment using electron diffraction. <i>Physical Review Letters</i> , <b>2010</b> , 105, 217205	7.4	5
99	Probing two-dimensional metallic-like and localization effects at low magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1142-1144	3	6
98	Microwave-induced DC currents in mesoscopic structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1084-1087	3	
97	Optical investigation of an AlGaIn/GaN interface with the presence of a two-dimensional electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 43, 125-129	3	5
96	Crossover from negative to positive magnetoresistance in a Si delta-doped GaAs single quantum well. <i>Solid State Communications</i> , <b>2010</b> , 150, 1104-1107	1.6	6
95	Probing the onset of strong localization and electron-electron interactions with the presence of a direct insulator-quantum Hall transition. <i>Solid State Communications</i> , <b>2010</b> , 150, 1902-1905	1.6	6
94	Ultrahigh contrast light valve driven by electrocapillarity of liquid gallium. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 251110	3.4	25
93	Direct deposition of single-walled carbon nanotube thin films via electrostatic spray assisted chemical vapor deposition. <i>Nanotechnology</i> , <b>2009</b> , 20, 065601	3.4	8



92	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. <i>Nano Letters</i> , <b>2009</b> , 9, 1839-43	11.5	79
91	Probing Insulator-quantum Hall Transitions by Current Heating. <i>Journal of the Korean Physical Society</i> , <b>2009</b> , 55, 64-67	0.6	3
90	Probing Landau quantization with the presence of insulator-quantum Hall transition in a GaAs two-dimensional electron system. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 295223	1.8	6
89	Correlation Field Analysis of Magnetoresistance of GaN/AlGa <sub>x</sub> N Heterostructure Grown on Si Substrate. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 4623-4625	1.4	
88	From insulator to quantum Hall liquid at low magnetic fields. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	9
87	Huge positive magnetoresistance in a gated AlGaAs/GaAs high electron mobility transistor structure at high temperatures. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 132111	3.4	1
86	Electron heating and huge positive magnetoresistance in an AlGaAs/GaAs high electron mobility transistor structure at high temperatures. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 152117	3.4	5
85	Influence of the incorporation of metals on the optical properties of MCM-41. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 553-558	3.8	7
84	Electron-electron interactions in Al <sub>0.15</sub> Ga <sub>0.85</sub> N/GaN high electron mobility transistor structures grown on Si substrates. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 022107	3.4	10
83	Electron heating in Al <sub>0.15</sub> Ga <sub>0.85</sub> N/GaN heterostructures grown on p-type Si. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2007</b> , 40, 343-346	3	2
82	An experimental study on $\mathbb{Z}_2$ modular symmetry in the quantum Hall system with a small spin splitting. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 026205	1.8	8
81	Huge positive magnetoresistance in an InN film. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 172101	3.4	12
80	Huge positive magnetoresistance of GaAs/AlGaAs high electron mobility transistor structures at high temperatures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 252106	3.4	9
79	Spin-dependent photocurrent induced by Rashba-type spin splitting in Al <sub>0.25</sub> Ga <sub>0.75</sub> N/GaN heterostructures. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	34
78	Magnesium Doping of In-rich InGa <sub>N</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 2840-2843	1.4	29
77	Unifying model for giant enhancement and quenching of light emission from Au/CdSe nanocomposites <b>2007</b> ,		1
76	Strong luminescence from strain relaxed InGa <sub>N</sub> /Ga <sub>N</sub> nanotips for highly efficient light emitters. <i>Optics Express</i> , <b>2007</b> , 15, 9357-65	3.3	39
75	Mechanism of giant enhancement of light emission from Au/CdSe nanocomposites. <i>Nanotechnology</i> , <b>2007</b> , 18, 415707	3.4	58

74	Demonstration of Rashba spin splitting in an Al <sub>0.25</sub> Ga <sub>0.75</sub> N/GaN heterostructure by microwave-modulated Shubnikov-de Haas oscillations. <i>Semiconductor Science and Technology</i> , <b>2007</b> , 22, 870-874	1.8	8
73	Experimental Evidence for Weak Insulator-Quantum Hall Transitions in GaN/AlGaN Two-Dimensional Electron Systems. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 1643	0.6	5
72	Electron Heating and Current Scaling in a GaAs Two-Dimensional Electron System. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 1662	0.6	5
71	Electron-Electron Interactions in a Two-Dimensional Electron System in an Al <sub>0.15</sub> Ga <sub>0.85</sub> N/GaN Heterostructure Grown on p-Type Si. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 754	0.6	2
70	Effect of Buffer Layers on Electrical, Optical and Structural Properties of AlGaIn/GaN Heterostructures Grown on Si. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 2516-2518	1.4	4
69	Al <sub>0.15</sub> Ga <sub>0.85</sub> N/GaN high electron mobility transistor structures grown on p-type Si substrates. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 132107	3.4	5
68	Effect of nitrogen contents on the temperature dependence of photoluminescence in InGaAsN/GaAs single quantum wells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2006</b> , 24, 1223-1227	2.9	17
67	Superconductivity and mixed-state characteristic of InN films by metal-organic vapor phase epitaxy. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1179-1183	3.5	9
66	Experimental evidence for Drude-Boltzmann-like transport in a two-dimensional electron gas in an AlGaIn/GaN heterostructure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1713-1716		2
65	Growth and characterization of GaN/AlGaIn high-electron mobility transistors grown on p-type Si substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 32, 566-568	3	5
64	Temperature-dependent optical properties of In <sub>0.34</sub> Ga <sub>0.66</sub> As <sub>1-x</sub> N <sub>x</sub> /GaAs single quantum well with high nitrogen content for 1.55 $\mu$ m application grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , <b>2006</b> , 291, 27-33	1.6	9
63	Effects of Zeeman spin splitting on the modular symmetry in the quantum Hall effect. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 469-471	1.8	6
62	Evidence for a finite compressibility of a quasi-one-dimensional ballistic channel. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 331-333	1.8	
61	Transport measurements on MOVPE-grown InN films. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 428-430	1.8	1
60	Mobility gap of a spin-split GaAs two-dimensional electron gas. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 466-468		1
59	Jain-Shelton-type resonance as a noninvasive probe of screening in the quantum Hall regime. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 425-427	1.8	1
58	The Insulator-Quantum Hall-Insulator Transitions in a Two-Dimensional GaAs System Containing Self-Assembled InAs Quantum Dots. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	1
57	Zero-field spin splitting in modulation-doped Al <sub>x</sub> Ga <sub>1-x</sub> N/GaN two-dimensional electron systems. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 222102	3.4	33

56	Experimental determination of electron and hole sublevels in modulation-doped InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 232110	3.4	2
55	Measurements of composite fermion conductivity dependence on carrier density. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 1095-1101	1.8	1
54	Gradual decrease of conductance of an adiabatic ballistic constriction below $2e^2/h$ . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	8
53	Exchange-enhanced g-factors in an Al <sub>0.25</sub> Ga <sub>0.75</sub> N/GaN two-dimensional electron system. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 7370-7373	2.5	29
52	From localization to Landau quantization in a two-dimensional GaAs electron system containing self-assembled InAs quantum dots. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	24
51	Can the conductance step of a single-mode ballistic constriction be lower than $2e^2/h$ ? <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 268-271	3	
50	Substrate dependence of large ordinary magnetoresistance in sputtered Bi films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1769-1771	2.8	13
49	Conventional and microwave-modulated Shubnikov-De Haas oscillations in GaN electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 631-635	3	1
48	Upshift of the fractional quantum Hall plateaux: evidence for repulsive scattering for composite fermions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 135-137	3	
47	A study on the universality of the magnetic-field-induced phase transitions in the two-dimensional electron system in an AlGaAs/GaAs heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 232-235	3	9
46	On the low-field insulator-quantum Hall conductor transitions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 240-243	3	15
45	Magnetic-field-induced phase transitions in a Si/SiGe hole system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 244-247	3	
44	Transport and quantum lifetime dependence on electron density in gated GaAs/AlGaAs heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 312-315	3	6
43	Mobility dependence on carrier density in a dilute GaAs electron gas in an in-plane magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 324-327	3	1
42	Experimental evidence for screening effects from surface states in GaAs/AlGaAs based nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 570-573	3	3
41	Microwave-modulated Shubnikov-De Haas oscillations in a two-dimensional GaN electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 578-581	3	2
40	DEVIATION FROM EXACT CONDUCTANCE QUANTIZATION IN A SHORT CLEAN ONE-DIMENSIONAL CHANNEL. <i>International Journal of Nanoscience</i> , <b>2003</b> , 02, 551-558	0.6	
39	Insulator-quantum Hall transitions in two-dimensional electron gas containing self-assembled InAs dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 292-293	3	3

38	Spin-dependent transport in a dilute two-dimensional GaAs electron gas in an in-plane magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 18, 141-142	3	2
37	Electrically detected and microwave-modulated Shubnikov-de Haas oscillations in an Al <sub>0.4</sub> Ga <sub>0.6</sub> N/GaN heterostructure. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 2055-2058	2.5	21
36	Transport in a gated Al <sub>0.18</sub> Ga <sub>0.82</sub> N/GaN electron system. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3181-3184.	4.5	29
35	Cross-linked PMMA as a low-dimensional dielectric sacrificial layer. <i>Journal of Microelectromechanical Systems</i> , <b>2003</b> , 12, 641-648	2.5	38
34	Experimental studies of composite fermion conductivity: dependence on carrier density. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 105-108	3	1
33	Spin-dependent transport in a two-dimensional GaAs electron gas in a parallel magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 412-415	3	
32	Exchange-enhanced Landé-factor, effective disorder and collapse of spin-splitting in a two-dimensional GaAs electron system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 424-427	3	4
31	Insulator-quantum Hall liquid transitions in a two-dimensional electron gas using self-assembled InAs dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 658-661	3	1
30	Magnetotransport in variable-coupling one-dimensional ballistic constrictions. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5304-5309	2.5	5
29	Quantum magneto-transport in two-dimensional GaAs electron gases and SiGe hole gases. <i>Journal of Physics and Chemistry of Solids</i> , <b>2001</b> , 62, 1789-1796	3.9	3
28	Coulomb oscillations of the ballistic conductance in a quasi-one-dimensional quantum dot. <i>JETP Letters</i> , <b>2001</b> , 74, 209-212	1.2	3
27	Coulomb charging effects in an open quantum dot device. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 9515-9534	1.8	16
26	Insulator-quantum Hall conductor transitions at low magnetic field. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	28
25	Spin-dependent transport in a dilute two-dimensional GaAs electron gas in a parallel magnetic field. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	3
24	Transport properties of two-dimensional electron gases containing linear ordering InAs self-assembled quantum dots. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3896-3898	3.4	7
23	Effective mass of two-dimensional electron gas in an Al <sub>0.2</sub> Ga <sub>0.8</sub> N/GaN heterojunction. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 66-68	3.4	28
22	A method of determining potential barrier heights at semiconductor heterointerfaces. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 753-754	0.2	
21	Evidence for charging effects in an open dot at zero magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 418-422	3	3

20	Detection of Coulomb charging around an antidot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 495-498	3	3
19	Large transconductance oscillations in a single-well vertical Aharonov-Bohm interferometer. <i>Physical Review B</i> , <b>2000</b> , 62, R10630-R10632	3.3	7
18	Multilayered gated lateral quantum dot devices. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1134-1136	3.4	13
17	Spin-dependent transport in a quasiballistic quantum wire. <i>Physical Review B</i> , <b>2000</b> , 61, 9952-9955	3.3	50
16	Detection of Coulomb Charging around an Antidot in the Quantum Hall Regime. <i>Physical Review Letters</i> , <b>1999</b> , 83, 160-163	7.4	62
15	Spin-dependent transport in a clean one-dimensional channel. <i>Physical Review B</i> , <b>1999</b> , 60, 10687-10690	3.3	20
14	Fabrication and transport properties of clean long one-dimensional quantum wires formed in modulation-doped GaAs/AlGaAs heterostructures. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2975-2977	3.4	36
13	Experimental studies of T-shaped quantum dot transistors: Phase-coherent electron transport. <i>Solid State Communications</i> , <b>1998</b> , 105, 109-111	1.6	
12	Experimental evidence for a metal-insulator transition and geometric effect in a half-filled Landau level. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 78-81	3	
11	Experimental Evidence for Coulomb Charging Effects in an Open Quantum Dot at Zero Magnetic Field. <i>Physical Review Letters</i> , <b>1998</b> , 81, 3507-3510	7.4	49
10	Thermoelectric signature of the excitation spectrum of a quantum dot. <i>Physical Review B</i> , <b>1997</b> , 55, R10197-R10200	3.3	19
9	Resonant transmission through an open quantum dot. <i>Physical Review B</i> , <b>1997</b> , 55, 6723-6726	3.3	25
8	Tunnelling transmission resonances through a zero-dimensional structure. <i>Semiconductor Science and Technology</i> , <b>1997</b> , 12, 875-880	1.8	10
7	Experimental evidence of a metal-insulator transition in a half-filled Landau level. <i>Solid State Communications</i> , <b>1997</b> , 102, 327-330	1.6	3
6	Measurements of a composite fermion split-gate. <i>Surface Science</i> , <b>1996</b> , 361-362, 71-74	1.8	5
5	Ballistic composite fermions in semiconductor nanostructures. <i>Physical Review B</i> , <b>1996</b> , 53, 9602-9605	3.3	4
4	Measurements of a composite fermion split-gate device. <i>Physical Review B</i> , <b>1996</b> , 53, R7596-R7598	3.3	11
3	Reflection of edge states in the fractional quantum Hall regime. <i>Solid State Communications</i> , <b>1995</b> , 96, 327-331	1.6	3

- 2 Weak localization and electron-electron interactions in a two-dimensional grid lateral surface superlattice. *Physical Review B*, **1994**, 49, 8518-8521 33 9
- 1 One-dimensional ballistic channel with a triple-barrier longitudinal potential: Measurement and model. *Physical Review B*, **1994**, 49, 14078-14080 33 9