

Doyeol Ahn

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189
ext. papers

3,400
ext. citations

2.4
avg, IF

5.24
L-index

#	Paper	IF	Citations
179	Calculation of linear and nonlinear intersubband optical absorptions in a quantum well model with an applied electric field. <i>IEEE Journal of Quantum Electronics</i> , 1987 , 23, 2196-2204	2	340
178	Intersubband optical absorption in a quantum well with an applied electric field. <i>Physical Review B</i> , 1987 , 35, 4149-4151	3.3	164
177	. <i>IEEE Journal of Quantum Electronics</i> , 1988 , 24, 2400-2406	2	122
176	Theory of non-Markovian optical gain in quantum-well lasers. <i>Progress in Quantum Electronics</i> , 1997 , 21, 249-287	9.1	120
175	Intraband relaxation time effects on non-Markovian gain with many-body effects and comparison with experiment. <i>Semiconductor Science and Technology</i> , 2000 , 15, 203-208	1.8	105
174	Electronic and Optical Properties of $\{a\}$ - and $\{m\}$ -Plane Wurtzite InGaN/GaN Quantum Wells. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1175-1182	2	103
173	. <i>IEEE Journal of Quantum Electronics</i> , 1990 , 26, 13-24	2	92
172	Spontaneous and piezoelectric polarization effects in wurtzite ZnO/MgZnO quantum well lasers. <i>Applied Physics Letters</i> , 2005 , 87, 253509	3.4	91
171	Relativistic entanglement and Bell's inequality. <i>Physical Review A</i> , 2003 , 67,	2.6	90
170	Optical transitions in a parabolic quantum well with an applied electric field—analytical solutions. <i>Journal of Applied Physics</i> , 1989 , 65, 2822-2826	2.5	81
169	Valence-band mixing effects on the gain and the refractive index change of quantum-well lasers. <i>Journal of Applied Physics</i> , 1988 , 64, 4056-4064	2.5	81
168	High-efficiency staggered 530 nm InGaN/InGaN/GaN quantum-well light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 94, 041109	3.4	77
167	Dip-shaped InGaN/GaN quantum-well light-emitting diodes with high efficiency. <i>Applied Physics Letters</i> , 2009 , 95, 063507	3.4	61
166	Dense coding in entangled states. <i>Physical Review A</i> , 2002 , 66,	2.6	57
165	. <i>IEEE Journal of Quantum Electronics</i> , 1994 , 30, 350-365	2	52
164	Macromodeling of single-electron transistors for efficient circuit simulation. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 1667-1671	2.9	51
163	Application of atomic-force-microscope direct patterning to selective positioning of InAs quantum dots on GaAs. <i>Applied Physics Letters</i> , 2000 , 77, 2607-2609	3.4	42

162	Time-convolutionless reduced-density-operator theory of an arbitrary driven system coupled to a stochastic reservoir: Quantum kinetic equations for semiconductors. <i>Physical Review B</i> , 1994 , 50, 8310-8318	3.3	37
161	Variational calculations of subbands in a quantum well with uniform electric field: Gram-Schmidt orthogonalization approach. <i>Applied Physics Letters</i> , 1986 , 49, 1450-1452	3.4	34
160	Spontaneous emission rate of green strain-compensated InGaN/InGaN LEDs using InGaN substrate. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 195-198	1.6	33
159	Theory of optical gain in strained-layer quantum wells within the 6 β Luttinger-Kohn model. <i>Journal of Applied Physics</i> , 1995 , 78, 2489-2497	2.5	33
158	Model of the field-effect quantum-well laser with free-carrier screening and valence band mixing. <i>Journal of Applied Physics</i> , 1988 , 64, 6143-6149	2.5	32
157	Light emission enhancement in blue InGaAlN/InGaN quantum well structures. <i>Applied Physics Letters</i> , 2011 , 99, 181101	3.4	31
156	Final state boundary condition of the Schwarzschild black hole. <i>Physical Review D</i> , 2006 , 74,	4.9	31
155	Silicon single-electron transistors with sidewall depletion gates and their application to dynamic single-electron transistor logic. <i>IEEE Transactions on Electron Devices</i> , 2002 , 49, 627-635	2.9	31
154	Optical gain of a quantum-well laser with non-Markovian relaxation and many-body effects. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 960-965	2	31
153	Cuprous halides semiconductors as a new means for highly efficient light-emitting diodes. <i>Scientific Reports</i> , 2016 , 6, 20718	4.9	30
152	Optical gain improvement in type-II InGaN/GaN/Sb/GaN quantum well structures composed of InGaN/and GaN/Sb layers. <i>Applied Physics Letters</i> , 2010 , 96, 051106	3.4	27
151	Single-electron transistor based on a silicon-on-insulator quantum wire fabricated by a side-wall patterning method. <i>Applied Physics Letters</i> , 2001 , 79, 3812-3814	3.4	26
150	Time-convolutionless reduced-density-operator theory of an arbitrary driven system coupled to a stochastic reservoir. II. Optical gain and line-shape function of a driven semiconductor. <i>Physical Review B</i> , 1995 , 51, 2159-2166	3.3	26
149	Analytical Threshold Voltage Model Including Effective Conducting Path Effect (ECPE) for Surrounding-Gate MOSFETs (SGMOSFETs) With Localized Charges. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 3176-3180	2.9	25
148	Theory of non-Markovian gain in strained-layer quantum-well lasers with many-body effects. <i>IEEE Journal of Quantum Electronics</i> , 1998 , 34, 344-352	2	24
147	. <i>IEEE Journal of Quantum Electronics</i> , 1989 , 25, 2260-2265	2	23
146	Effect of Ti thickness on contact resistance between GaN nanowires and Ti/Au electrodes. <i>Applied Physics Letters</i> , 2004 , 85, 1636-1638	3.4	22
145	Optical gain in InGaN/InGaAlN quantum well structures with zero internal field. <i>Applied Physics Letters</i> , 2008 , 92, 171115	3.4	21

144	Electronic and optical properties of staggered InGaN/InGaN quantum-well light-emitting diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 2637-2640	1.6	20
143	Many-body effects on optical gain in strained hexagonal and cubic GaN/AlGaN quantum well lasers. <i>Applied Physics Letters</i> , 1997 , 71, 398-400	3.4	20
142	Finite element analysis of valence band structures in quantum wires. <i>Journal of Applied Physics</i> , 2004 , 96, 2055-2062	2.5	20
141	Selective growth of InAs self-assembled quantum dots on nanopatterned SiO ₂ /Si substrate. <i>Applied Physics Letters</i> , 2001 , 78, 1403-1405	3.4	20
140	Piezoelectric effects on many-body optical gain of zinc-blende and wurtzite GaN/AlGaN quantum-well lasers. <i>Applied Physics Letters</i> , 1999 , 75, 1354-1356	3.4	20
139	Fabrication and electrical characterization of planar resonant tunneling devices incorporating InAs self-assembled quantum dots. <i>Applied Physics Letters</i> , 1999 , 75, 1167-1169	3.4	20
138	Quantum-state cloning in the presence of a closed timelike curve. <i>Physical Review A</i> , 2013 , 88,	2.6	19
137	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1995 , 1, 301-307	3.8	19
136	Theory of polar-optical-phonon scattering in a semiconductor quantum wire. <i>Journal of Applied Physics</i> , 1991 , 69, 3596-3600	2.5	18
135	Hawking-Unruh effect and the entanglement of two-mode squeezed states in Riemannian spacetime. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 366, 202-205	2.3	17
134	Electrical conduction measurement of thiol modified DNA molecules. <i>Superlattices and Microstructures</i> , 2003 , 34, 433-438	2.8	17
133	Intersubband transitions in a delta -doped semiconductor with an applied electric field: Exact solutions. <i>Physical Review B</i> , 1993 , 48, 7981-7985	3.3	17
132	A field-effect quantum-well laser with lateral current injection. <i>Journal of Applied Physics</i> , 1988 , 64, 440-442		17
131	2011 ,		16
130	A SPICE-Compatible New Silicon Nanowire Field-Effect Transistors (SNWFETs) Model. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 643-649	2.6	14
129	Fabrication of one-dimensional devices by a combination of AC dielectrophoresis and electrochemical deposition. <i>Nanotechnology</i> , 2008 , 19, 105305	3.4	14
128	Intervalley interactions in Si quantum dots. <i>Journal of Applied Physics</i> , 2005 , 98, 033709	2.5	14
127	Optical gain of InGaP and cubic GaN quantum-well lasers with very strong spin-orbit coupling. <i>Journal of Applied Physics</i> , 1996 , 79, 7731-7737	2.5	14

126	Temperature Dependent Study of Random Telegraph Noise in Gate-All-Around PMOS Silicon Nanowire Field-Effect Transistors. <i>IEEE Nanotechnology Magazine</i> , 2010 , 9, 754-758	2.6	13
125	Intrinsically p-type cuprous iodide semiconductor for hybrid light-emitting diodes. <i>Scientific Reports</i> , 2020 , 10, 3995	4.9	12
124	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2520-2524	2.9	12
123	Internal field engineering in CdZnO/MgZnO quantum well structures. <i>Applied Physics Letters</i> , 2009 , 94, 083507	3.4	12
122	Optical Gain in GaN Quantum Well Lasers with Quaternary AlInGaN Barriers. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7460-7463	1.4	12
121	Qualitative estimation of optical gain in wide-band-gap semiconductor quantum wells. <i>Journal of Applied Physics</i> , 1994 , 76, 8206-8208	2.5	12
120	Electric field dependence of intrasubband polar-optical-phonon scattering in a quantum well. <i>Physical Review B</i> , 1988 , 37, 2529-2535	3.3	12
119	Langevin noise sources for the Boltzmann transport equations with the relaxation-time approximation in nondegenerate semiconductors. <i>Journal of Applied Physics</i> , 1985 , 58, 2262-2265	2.5	12
118	High optical gain of III-V semiconductor quantum wells for efficient light-emitting devices. <i>Applied Physics Letters</i> , 2013 , 102, 121114	3.4	11
117	Microwave Characterization of a Single Wall Carbon Nanotube Bundle. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 4965-4968	1.4	11
116	Optical gain and luminescence of a ZnO-MgZnO quantum well. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 349-351	2.2	11
115	Optical gain of strained hexagonal and cubic GaN quantum-well lasers. <i>Applied Physics Letters</i> , 1996 , 69, 3303-3305	3.4	11
114	Generation of Local Magnetic Field by Nano Electro-Magnets. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2054-2056	1.4	10
113	Spontaneous Polarization and Piezoelectric Effects on Inter-Subband Scattering Rate in Wurtzite GaN/AlGaIn Quantum-Well. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, L941-L944	1.4	10
112	Internal field effects on electronic and optical properties of ZnO/BeZnO quantum well structures. <i>Physica B: Condensed Matter</i> , 2014 , 441, 12-16	2.8	9
111	Intersubband transition in lattice-matched B _{0.5} Ga _{0.5} N/AlN quantum well structures with high absorption coefficients. <i>Optics Express</i> , 2017 , 25, 3143-3152	3.3	9
110	Observation of three-dimensional shell filling in cylindrical silicon nanowire single electron transistors. <i>Applied Physics Letters</i> , 2007 , 90, 182102	3.4	9
109	Double-dot-like charge transport through a small size silicon single electron transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 946-949	3	9

108	Screening Effects on Electron-Longitudinal Optical-Phonon Intersubband Scattering in Wide Quantum Well and Comparison with Experiment. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 6601-6605 ^{1,4}	1.4	9
107	Nano-Structure Fabrication and Manipulation by the Cantilever Oscillation of an Atomic Force Microscope. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 7257-7259	1.4	9
106	Screening effects on the band-gap renormalization of strained InGaAs/InGaAsP quantum well lasers lattice matched to GaAs. <i>Applied Physics Letters</i> , 1996 , 68, 1844-1846	3.4	9
105	Comparison of light emission in InGaN/GaN light-emitting diodes with graded, triangular, and parabolic quantum-well structures. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 505-508	0.6	8
104	Effect of indirect interband absorption in Ge/SiGe quantum wells. <i>Journal of Applied Physics</i> , 2011 , 110, 083119	2.5	8
103	Electronic transport properties of a single-wall carbon nanotube field effect transistor with deoxyribonucleic acid conjugation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1115-1117	3	8
102	Microwave design and characterization of a cryogenic dip probe for time-domain measurements of nanodevices. <i>Review of Scientific Instruments</i> , 2004 , 75, 2455-2460	1.7	8
101	Electrical Transport Properties of Au-Doped Deoxyribonucleic Acid Molecules. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2623-2625	1.4	8
100	Band-structure engineering of a cubic GaN quantum-well laser. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 194-196	2.2	8
99	Strained II-VI Quantum Well for a Room-Temperature Blue-Green Laser. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, L556-L559	1.4	8
98	Theoretical analysis of strained-layer InGaAs/GaAs quantum-well lasers with gain suppression and valence-band mixing. <i>Applied Physics Letters</i> , 1992 , 60, 548-550	3.4	8
97	Electric-field dependence of the intersubband optical absorption in a semiconductor quantum well. <i>Superlattices and Microstructures</i> , 1988 , 4, 153-157	2.8	8
96	Calculation of permittivity tensors for invisibility devices by effective medium approach in general relativity. <i>Journal of Modern Optics</i> , 2011 , 58, 700-710	1.1	7
95	Non-Markovian decoherence: complete positivity and decomposition. <i>Journal of Modern Optics</i> , 2005 , 52, 935-943	1.1	7
94	Magnetotransport measurements through stacked InAs self-assembled quantum dots. <i>Applied Physics Letters</i> , 2003 , 82, 1230-1232	3.4	7
93	Entanglement generates entanglement: entanglement transfer by interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 338, 192-196	2.3	7
92	Non-Markovian gain of a quantum-well laser with many-body effects. <i>Applied Physics Letters</i> , 1996 , 69, 2498-2500	3.4	7
91	. <i>IEEE Journal of Quantum Electronics</i> , 1993 , 29, 2864-2872	2	7

90	Theoretical Studies on TM-Polarized Light Emission for Ultraviolet AlGaIn/AlN Optoelectronic Devices. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2153-2155	2.2	6
89	Spontaneous emission and optical gain characteristics of blue InGaAlN/InGaIn quantum well structures with reduced internal field. <i>Journal of Applied Physics</i> , 2012 , 112, 043107	2.5	6
88	Dispersive full-wave finite-difference time-domain analysis of the bipolar cylindrical cloak based on the effective medium approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 140	1.7	6
87	High-efficiency InGaIn/GaN light-emitting diodes with electron injector. <i>Semiconductor Science and Technology</i> , 2012 , 27, 115003	1.8	6
86	Transport Properties of a DNA-Conjugated Single-Wall Carbon Nanotube Field-Effect Transistor. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 06FD08	1.4	6
85	Electronic Properties of InGaAs/GaAs Strained Coupled Quantum Dots Modeled by Eight-Band k \cdot p Theory. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 144-149	1.4	6
84	Exciton Binding Energies in Zincblende GaN/AlGaIn Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 140-143	1.4	6
83	Quantum circuit optimization using quantum Karnaugh map. <i>Scientific Reports</i> , 2020 , 10, 15651	4.9	6
82	Experimental realization of Schumacher's information geometric Bell inequality. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 405, 127444	2.3	6
81	High optical polarization ratio of semipolar (110 $\bar{1}$)-oriented InGaIn/GaN quantum wells and comparison with experiment. <i>Journal of Applied Physics</i> , 2012 , 112, 093106	2.5	5
80	A wide dynamic range analog predistortion-type linearizer using self-cancellation scheme. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 661-663	2.6	5
79	Fabrication of quantum dot transistors incorporating a single self-assembled quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 7, 430-434	3	5
78	Intraband Relaxation Time in Wurtzite GaN/InAlN Quantum-Well. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L815-L818	1.4	5
77	Theoretical aspects of blue-green InGaIn strained quantum well lasers. <i>Physica B: Condensed Matter</i> , 1993 , 191, 140-155	2.8	5
76	Collision broadening of optical gain in semiconductor lasers. <i>Journal of Applied Physics</i> , 1989 , 65, 4517-4520	2.9	5
75	Optical Emission Characteristics of Pseudopolarization-Matched Green AlInGaIn/InGaIn Quantum Well Structures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-8	3.8	4
74	Elliptic cylindrical pseudo-optical black hole for omnidirectional light absorber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1948	1.7	4
73	Full-wave finite-difference time-domain analysis of the invisibility cloak mapped to a line segment with isotropic complementary media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2148	1.7	4

72	Electrical transport properties of a single wall carbon nanotube network. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 744-746	1.3	4
71	Non-Markovian gain of strained-layer wurtzite GaN quantum-well lasers with many-body effects. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998 , 4, 520-526	3.8	4
70	Faraday's Induction Experiment in Nano-Transformers. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 120-123	2.6	4
69	Non-Markovian gain and luminescence of an InGaN-AlInGaN quantum-well with many-body effects. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 1253-1259	2	4
68	Gate bias controlled NDR in an in-plane-gate quantum dot transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 532-535	3	4
67	Formation of Electrical Interconnects by Self-Trapping of Deoxyribonucleic Acid Molecules. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3803-3805	1.4	4
66	Fabrication and characterization of metal-semiconductor field-effect-transistor-type quantum devices. <i>Journal of Applied Physics</i> , 2004 , 96, 704-708	2.5	4
65	Theoretical study of strained InGaP quantum-well lasers. <i>Applied Physics Letters</i> , 1995 , 66, 628-630	3.4	4
64	First-order correction to phonon scattering due to dynamical screening in quantum wells. <i>Physical Review B</i> , 1994 , 50, 1713-1716	3.3	4
63	Effects of a delta-layer insertion on the ultraviolet light emission characteristics of III-nitride quantum well structures. <i>Superlattices and Microstructures</i> , 2017 , 112, 665-670	2.8	3
62	Lattice-matched double dip-shaped AlGaIn/AlN quantum well structures for ultraviolet light emission devices. <i>Superlattices and Microstructures</i> , 2018 , 117, 413-417	2.8	3
61	Effect of boron incorporation on light emission characteristics of UV AlGaIn/AlN quantum well structures. <i>Applied Physics Express</i> , 2016 , 9, 021001	2.4	3
60	Unruh effect as a noisy quantum channel. <i>Physical Review A</i> , 2018 , 98,	2.6	3
59	Dispersive finite-difference time-domain (FDTD) analysis of the elliptic cylindrical cloak. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1349-1360	0.6	3
58	Electronic structure of p(2 × 2) Ag films on Si(100). <i>Journal of the Korean Physical Society</i> , 2013 , 62, 86-91	0.6	3
57	Effects of wetting layer on exciton binding energy of strained CdTe/ZnTe pyramidal quantum dots. <i>Solid State Communications</i> , 2015 , 204, 61-63	1.6	3
56	Hybrid InGaIn/CdZnO quantum well structures for optoelectronic applications in the short wavelength spectral region. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 378-381	1.3	3
55	Hybrid integration of GaAs/AlGaAs in-plane-gate resonant tunneling and field effect transistors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2160-2162	3	3

54	Transport measurements through stacked InAs self-assembled quantum dots in time domain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 460-463	3	3
53	Transport study of ultra-thin SOI MOSFETs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 19, 39-43	3	3
52	Optical Gain in Wurtzite ZnO/ZnMgO Quantum Well Lasers. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1403-L1406	1.4	3
51	Single-Electron Transistors with Sidewall Depletion Gates on a Silicon-On-Insulator Nano-Wire. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 2574-2577	1.4	3
50	Spontaneous polarization and piezoelectric effects on intraband relaxation time in a wurtzite GaN/AlGa _N quantum well. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 71, 589-592	2.6	3
49	Modeling of Semiconductor Nanowire Field-Effect Transistors Considering Schottky-Barrier-Height Lowering. <i>Journal of the Korean Physical Society</i> , 2007 , 51, 298	0.6	3
48	Intersubband absorption coefficients of GaN/AlN and strain-compensated InGa _N /InAlN quantum well structures. <i>Superlattices and Microstructures</i> , 2016 , 100, 508-513	2.8	3
47	Dip-Shaped AlGa _N /AlN Light-Emitting Diodes With Delta-Layer Containing Boron. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1042-1045	2.2	2
46	Theoretical study of optical properties of non-polar BAIGaN/AlN quantum wells lattice-matched to AlN. <i>Solid State Communications</i> , 2019 , 290, 67-69	1.6	2
45	Investigation of humidity-dependent size control of local anodic oxidation on graphene by using atomic force microscopy. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 617-620	0.6	2
44	Optical Gain Characteristics in GaAsPN/GaPN Quantum Well Lasers for Silicon Integration. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 153-159	3.8	2
43	Optical polarization characteristics of m-plane InGa _N /Ga _N quantum well structures and comparison with experiment. <i>Applied Physics Letters</i> , 2013 , 103, 101107	3.4	2
42	Intersubband absorption of p-type wurtzite Ga _N /AlN quantum well for fiber-optics telecommunication. <i>Journal of Applied Physics</i> , 2017 , 122, 184303	2.5	2
41	Full wave finite-difference time-domain study of lossless acoustic bipolar cylindrical cloak with compressed geometry and complementary media. <i>Journal of Applied Physics</i> , 2015 , 118, 044508	2.5	2
40	FDTD Study of Half Cloak in Bipolar Cylindrical Shape With Compressed Geometry and Complementary Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 2317-2320	4.9	2
39	Black hole state evolution, final state and Hawking radiation. <i>Classical and Quantum Gravity</i> , 2012 , 29, 224007	3.3	2
38	Enhancement of light power for strain-compensated hybrid InGa _N /InGa _N /MgZnO light-emitting diodes. <i>Applied Physics Letters</i> , 2010 , 97, 121107	3.4	2
37	Magnetic bead detection using nano-transformers. <i>Nanotechnology</i> , 2010 , 21, 465501	3.4	2

36	Enhancement of optical gain in Li: CdZnO/ZnMgO quantum well lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2652-2654	3	2
35	Transmission-Type Radio-Frequency Single-Electron Transistor with In-Plane-Gate Single-Electron Transistor. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 2592-2595	1.4	2
34	Direct observation of excited states in double quantum dot silicon single electron transistor. <i>Microelectronic Engineering</i> , 2002 , 63, 129-133	2.5	2
33	An automated glitch-detection/restoration method of atomic force microscope images. <i>Review of Scientific Instruments</i> , 2002 , 73, 3245-3250	1.7	2
32	Calculations of hole-phonon scattering in strained-layer quantum wells. <i>Journal of Applied Physics</i> , 1995 , 78, 4505-4509	2.5	2
31	Band-gap renormalization effects on 980 nm strained-layer InGaAs/AlGaAs quantum-well lasers. <i>Journal of Applied Physics</i> , 1994 , 76, 7648-7650	2.5	2
30	Theory of phonon-limited mobility in a delta-doped quantum well. <i>Applied Physics Letters</i> , 1992 , 61, 1567-1569	2	2
29	Wigner Rotation of Spin 1/2 Particles in Rindler Spacetime. <i>Journal of the Korean Physical Society</i> , 2007 , 50, 6-9	0.6	2
28	Effects of Confinement on the Valley Splitting of Si Quantum Structures. <i>Journal of the Korean Physical Society</i> , 2008 , 53, 3322-3327	0.6	2
27	A Bottom-gate Depletion-mode Nanowire Field Effect Transistor(NWFET) Model Including a Schottky Diode Model. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 1162-1166	0.6	2
26	Theoretical studies on light emission characteristics of high-efficiency BInGaN/GaN quantum well structures with blue spectral range. <i>Superlattices and Microstructures</i> , 2016 , 96, 150-154	2.8	2
25	Substrate dependence of TM-polarized light emission characteristics of BAlGaIn/AlN quantum wells. <i>Optics Communications</i> , 2018 , 417, 76-78	2	1
24	Theoretical study of a two-dimensional electron gas in wurtzite ZnO/MgZnO heterostructures and comparison with experiment. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 1844-1847	0.6	1
23	Explicit continuous current-voltage (I-V) models for fully-depleted surrounding-gate MOSFETs (SGMOSFETs) with a finite doping body. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3316-20	1.3	1
22	Single-electron tunneling in silicon-on-insulator nano-wire transistors. <i>Superlattices and Microstructures</i> , 2003 , 34, 245-251	2.8	1
21	Optical gain control model of the quantum-well laser diode. <i>Journal of Applied Physics</i> , 1991 , 70, 5246-5253	3	1
20	Gain Switching in Coupled Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, 1055-1058	1.4	1
19	Temperature-Dependent Polarized Photoluminescence from c-plane InGaIn/GaN Multiple Quantum Wells Grown on Stripe-Shaped Cavity-Engineered Sapphire Substrate. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900526	1.3	1

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17	Speedup of Grover's search algorithm and closed timelike curves. <i>Quantum Science and Technology</i> , 2020 , 5, 045011	5.5	0
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15	Strain and built-in potential effects on optical properties of wurtzite GaN/AlInN quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 108, 112-115	3	0
14	Strain relaxation effects on TE-polarized light emission and in-plane polarization ratio in c-plane ultraviolet AlGaIn/AlN quantum well structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 120, 114112	3	
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1	Fabrication of poly-silicon nano-wire transistors on plastic substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 4150-3	1.3	

