

Doyeol Ahn

List of Publications by Year in descending order

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188
papers

3,625
citations

172457

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54
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189
all docs

189
docs citations

189
times ranked

1959
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of linear and nonlinear intersubband optical absorptions in a quantum well model with an applied electric field. IEEE Journal of Quantum Electronics, 1987, 23, 2196-2204.	1.9	397
2	Intersubband optical absorption in a quantum well with an applied electric field. Physical Review B, 1987, 35, 4149-4151.	3.2	169
3	Optical gain in a strained-layer quantum-well laser. IEEE Journal of Quantum Electronics, 1988, 24, 2400-2406.	1.9	146
4	Theory of non-Markovian optical gain in quantum-well lasers. Progress in Quantum Electronics, 1997, 21, 249-287.	7.0	131
5	Intraband relaxation time effects on non-Markovian gain with many-body effects and comparison with experiment. Semiconductor Science and Technology, 2000, 15, 203-208.	2.0	118
6	Electronic and Optical Properties of $\{m a\}$ - and $\{m m\}$ -Plane Wurtzite InGa \tilde{N} GaN Quantum Wells. IEEE Journal of Quantum Electronics, 2007, 43, 1175-1182.	1.9	117
7	Optical gain and gain suppression of quantum-well lasers with valence band mixing. IEEE Journal of Quantum Electronics, 1990, 26, 13-24.	1.9	103
8	Relativistic entanglement and Bell's inequality. Physical Review A, 2003, 67, .	2.5	100
9	Spontaneous and piezoelectric polarization effects in wurtzite ZnO \tilde{Mg} ZnO quantum well lasers. Applied Physics Letters, 2005, 87, 253509.	3.3	100
10	Valence band mixing effects on the gain and the refractive index change of quantum well lasers. Journal of Applied Physics, 1988, 64, 4056-4064.	2.5	97
11	Optical transitions in a parabolic quantum well with an applied electric field analytical solutions. Journal of Applied Physics, 1989, 65, 2822-2826.	2.5	87
12	High-efficiency staggered 530 nm InGaN/InGaN/GaN quantum-well light-emitting diodes. Applied Physics Letters, 2009, 94, .	3.3	84
13	Macromodeling of single-electron transistors for efficient circuit simulation. IEEE Transactions on Electron Devices, 1999, 46, 1667-1671.	3.0	72
14	Dense coding in entangled states. Physical Review A, 2002, 66, .	2.5	66
15	Dip-shaped InGaN/GaN quantum-well light-emitting diodes with high efficiency. Applied Physics Letters, 2009, 95, 063507.	3.3	64
16	The theory of strained-layer quantum-well lasers with bandgap renormalization. IEEE Journal of Quantum Electronics, 1994, 30, 350-365.	1.9	54
17	Application of atomic-force-microscope direct patterning to selective positioning of InAs quantum dots on GaAs. Applied Physics Letters, 2000, 77, 2607-2609.	3.3	48
18	Theory of optical gain in strained layer quantum wells within the 6 $\tilde{6}$ Luttinger-Kohn model. Journal of Applied Physics, 1995, 78, 2489-2497.	2.5	46

#	ARTICLE	IF	CITATIONS
19	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.	3.2	42
20	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.	3.0	41
21	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.	3.3	39
22	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.	1.9	38
23	Cuprous halides semiconductors as a new means for highly efficient light-emitting diodes. <i>Scientific Reports</i> , 2016, 6, 20718.	3.3	37
24	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	35
25	Light emission enhancement in blue InGaAlN/InGaN quantum well structures. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	35
26	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.	1.8	35
27	Final state boundary condition of the Schwarzschild black hole. <i>Physical Review D</i> , 2006, 74, .	4.7	34
28	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.	3.2	29
29	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.	3.0	29
30	Optical gain improvement in type-II InGaN/GaN _{Sb} /GaN quantum well structures composed of InGaN/and GaNSb layers. <i>Applied Physics Letters</i> , 2010, 96, 051106.	3.3	29
31	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.	1.9	28
32	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.	3.3	28
33	Optical gain in InGa _N /InGaAlN quantum well structures with zero internal field. <i>Applied Physics Letters</i> , 2008, 92, 171115.	3.3	26
34	Intrinsically p-type cuprous iodide semiconductor for hybrid light-emitting diodes. <i>Scientific Reports</i> , 2020, 10, 3995.	3.3	26
35	Many-body effects on optical gain in strained hexagonal and cubic GaN/AlGa _N quantum well lasers. <i>Applied Physics Letters</i> , 1997, 71, 398-400.	3.3	25
36	Enhancement of the Stark effect in coupled quantum wells for optical switching devices. <i>IEEE Journal of Quantum Electronics</i> , 1989, 25, 2260-2265.	1.9	24

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37	Piezoelectric effects on many-body optical gain of zinc-blende and wurtzite GaN/AlGaIn quantum-well lasers. Applied Physics Letters, 1999, 75, 1354-1356.	3.3	24
38	The theory of non-Markovian gain in semiconductor lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 301-307.	2.9	22
39	Effect of Ti thickness on contact resistance between GaN nanowires and Ti/Au electrodes. Applied Physics Letters, 2004, 85, 1636-1638.	3.3	22
40	Finite element analysis of valence band structures in quantum wires. Journal of Applied Physics, 2004, 96, 2055-2062.	2.5	22
41	Quantum-state cloning in the presence of a closed timelike curve. Physical Review A, 2013, 88, .	2.5	22
42	Fabrication and electrical characterization of planar resonant tunneling devices incorporating InAs self-assembled quantum dots. Applied Physics Letters, 1999, 75, 1167-1169.	3.3	21
43	Selective growth of InAs self-assembled quantum dots on nanopatterned SiO ₂ /Si substrate. Applied Physics Letters, 2001, 78, 1403-1405.	3.3	21
44	Quantum circuit optimization using quantum Karnaugh map. Scientific Reports, 2020, 10, 15651.	3.3	21
45	Hawking's Unruh effect and the entanglement of two-mode squeezed states in Riemannian spacetime. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 202-205.	2.1	20
46	Electronic and optical properties of staggered InGaIn/InGaIn quantum-well light-emitting diodes. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2637-2640.	1.8	20
47	A field-effect quantum-well laser with lateral current injection. Journal of Applied Physics, 1988, 64, 440-442.	2.5	18
48	Theory of polar-optical-phonon scattering in a semiconductor quantum wire. Journal of Applied Physics, 1991, 69, 3596-3600.	2.5	18
49	Intersubband transitions in a δ -doped semiconductor with an applied electric field: Exact solutions. Physical Review B, 1993, 48, 7981-7985.	3.2	18
50	Qualitative estimation of optical gain in wide-band-gap semiconductor quantum wells. Journal of Applied Physics, 1994, 76, 8206-8208.	2.5	17
51	Electrical conduction measurement of thiol modified DNA molecules. Superlattices and Microstructures, 2003, 34, 433-438.	3.1	17
52	Electric field dependence of intrasubband polar-optical-phonon scattering in a quantum well. Physical Review B, 1988, 37, 2529-2535.	3.2	16
53	Optical gain of InGaP and cubic GaN quantum-well lasers with very strong spin-orbit coupling. Journal of Applied Physics, 1996, 79, 7731-7737.	2.5	16
54	Intervalley interactions in Si quantum dots. Journal of Applied Physics, 2005, 98, 033709.	2.5	16

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55	Fabrication of one-dimensional devices by a combination of AC dielectrophoresis and electrochemical deposition. <i>Nanotechnology</i> , 2008, 19, 105305.	2.6	16
56	A SPICE-Compatible New Silicon Nanowire Field-Effect Transistors (SNWFETs) Model. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 643-649.	2.0	16
57	Internal field engineering in CdZnO/MgZnO quantum well structures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	16
58	Optical gain of strained hexagonal and cubic GaN quantum well lasers. <i>Applied Physics Letters</i> , 1996, 69, 3303-3305.	3.3	15
59	Optical Gain in GaN Quantum Well Lasers with Quaternary AlInGaN Barriers. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 7460-7463.	1.5	15
60	Microwave Characterization of a Single Wall Carbon Nanotube Bundle. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 4965-4968.	1.5	15
61	Generation of Local Magnetic Field by Nano Electro-Magnets. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 2054-2056.	1.5	14
62	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.	2.0	14
63	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	13
64	Optical gain and luminescence of a ZnO-MgZnO quantum well. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 349-351.	2.5	13
65	Implicit Continuous Current-Voltage Model for Surrounding-Gate Metal-Oxide-Semiconductor Field-Effect Transistors Including Interface Traps. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 2520-2524.	3.0	13
66	High optical gain of III-V semiconductor quantum wells for efficient light-emitting devices. <i>Applied Physics Letters</i> , 2013, 102, 121114.	3.3	13
67	Internal field effects on electronic and optical properties of ZnO/BeZnO quantum well structures. <i>Physica B: Condensed Matter</i> , 2014, 441, 12-16.	2.7	13
68	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.	2.7	12
69	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.	1.5	11
70	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.	2.7	11
71	Observation of three-dimensional shell filling in cylindrical silicon nanowire single electron transistors. <i>Applied Physics Letters</i> , 2007, 90, 182102.	3.3	11
72	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.	1.5	10

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73	Comparison of light emission in InGaN/GaN light-emitting diodes with graded, triangular, and parabolic quantum-well structures. Journal of the Korean Physical Society, 2012, 60, 505-508.	0.7	10
74	Theoretical Studies on TM-Polarized Light Emission for Ultraviolet AlGaN/AlN Optoelectronic Devices. IEEE Photonics Technology Letters, 2016, 28, 2153-2155.	2.5	10
75	Theoretical analysis of strained-layer InGaAs/GaAs quantum-well lasers with gain suppression and valence-band mixing. Applied Physics Letters, 1992, 60, 548-550.	3.3	9
76	Band-structure engineering of a cubic GaN quantum-well laser. IEEE Photonics Technology Letters, 1996, 8, 194-196.	2.5	9
77	Non-Markovian gain of a quantum-well laser with many-body effects. Applied Physics Letters, 1996, 69, 2498-2500.	3.3	9
78	Screening effects on the band-gap renormalization of strained InGaAs/InGaAsP quantum well lasers lattice matched to GaAs. Applied Physics Letters, 1996, 68, 1844-1846.	3.3	9
79	Screening Effects on Electron-Longitudinal Optical-Phonon Intersubband Scattering in Wide Quantum Well and Comparison with Experiment. Japanese Journal of Applied Physics, 2000, 39, 6601-6605.	1.5	9
80	Microwave design and characterization of a cryogenic dip probe for time-domain measurements of nanodevices. Review of Scientific Instruments, 2004, 75, 2455-2460.	1.3	9
81	Entanglement generates entanglement: entanglement transfer by interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 338, 192-196.	2.1	9
82	Electrical Transport Properties of Au-Doped Deoxyribonucleic Acid Molecules. Japanese Journal of Applied Physics, 2005, 44, 2623-2625.	1.5	9
83	Transport Properties of a DNA-Conjugated Single-Wall Carbon Nanotube Field-Effect Transistor. Japanese Journal of Applied Physics, 2009, 48, 06FD08.	1.5	9
84	Intersubband transition in lattice-matched BGaN/AlN quantum well structures with high absorption coefficients. Optics Express, 2017, 25, 3143.	3.4	9
85	Electric-field dependence of the intersubband optical absorption in a semiconductor quantum well. Superlattices and Microstructures, 1988, 4, 153-157.	3.1	8
86	Strained II-VI Quantum Well for a Room-Temperature Blue-Green Laser. Japanese Journal of Applied Physics, 1992, 31, L556-L559.	1.5	8
87	Fabrication of quantum dot transistors incorporating a single self-assembled quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 430-434.	2.7	8
88	Effect of indirect interband absorption in Ge/SiGe quantum wells. Journal of Applied Physics, 2011, 110, 083119.	2.5	8
89	High optical polarization ratio of semipolar (202°-11°)-oriented InGaN/GaN quantum wells and comparison with experiment. Journal of Applied Physics, 2012, 112, .	2.5	8
90	High-efficiency InGaN/GaN light-emitting diodes with electron injector. Semiconductor Science and Technology, 2012, 27, 115003.	2.0	8

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91	Unruh effect as a noisy quantum channel. <i>Physical Review A</i> , 2018, 98, .	2.5	8
92	Experimental realization of Schumacher's information geometric Bell inequality. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 405, 127444.	2.1	8
93	Envelope function calculations of linear and nonlinear optical gains in a strained-layer quantum-well laser. <i>IEEE Journal of Quantum Electronics</i> , 1993, 29, 2864-2872.	1.9	7
94	Magnetotransport measurements through stacked InAs self-assembled quantum dots. <i>Applied Physics Letters</i> , 2003, 82, 1230-1232.	3.3	7
95	Electronic Properties of InGaAs/GaAs Strained Coupled Quantum Dots Modeled by Eight-Bandk \hat{A} -pTheory. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 144-149.	1.5	7
96	Formation of Electrical Interconnects by Self-Trapping of Deoxyribonucleic Acid Molecules. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 3803-3805.	1.5	7
97	Exciton Binding Energies in Zincblende GaN/AlGaIn Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 140-143.	1.5	7
98	Non-Markovian decoherence: complete positivity and decomposition. <i>Journal of Modern Optics</i> , 2005, 52, 935-943.	1.3	7
99	Calculation of permittivity tensors for invisibility devices by effective medium approach in general relativity. <i>Journal of Modern Optics</i> , 2011, 58, 700-710.	1.3	7
100	Theoretical aspects of blue-green II-VI strained quantum well lasers. <i>Physica B: Condensed Matter</i> , 1993, 191, 140-155.	2.7	6
101	Intraband Relaxation Time in Wurtzite GaN/InAlN Quantum-Well. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L815-L818.	1.5	6
102	A wide dynamic range analog predistortion-type linearizer using self-cancellation scheme. <i>IEEE Microwave and Wireless Components Letters</i> , 2005, 15, 661-663.	3.2	6
103	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
104	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.	2.1	6
105	Collision broadening of optical gain in semiconductor lasers. <i>Journal of Applied Physics</i> , 1989, 65, 4517-4520.	2.5	5
106	Theoretical study of strained InGaP quantum-well lasers. <i>Applied Physics Letters</i> , 1995, 66, 628-630.	3.3	5
107	Non-Markovian gain and luminescence of an InGaIn-AlInGaIn quantum-well with many-body effects. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 1253-1259.	1.9	5
108	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.	2.7	5

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109	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	4
110	First-order correction to phonon scattering due to dynamical screening in quantum wells. <i>Physical Review B</i> , 1994, 50, 1713-1716.	3.2	4
111	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.	2.9	4
112	Spontaneous polarization and piezoelectric effects on intraband relaxation time in a wurtzite GaN/AlGaIn quantum well. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 71, 589-592.	2.3	4
113	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.	1.5	4
114	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
115	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.	2.7	4
116	Faraday's Induction Experiment in Nano-Transformers. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 120-123.	2.0	4
117	Electrical transport properties of a single wall carbon nanotube network. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 744-746.	1.5	4
118	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.	2.9	4
119	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.	2.1	4
120	Elliptical cylindrical pseudo-optical black hole for omnidirectional light absorber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1948.	2.1	4
121	Effects of wetting layer on exciton binding energy of strained CdTe/ZnTe pyramidal quantum dots. <i>Solid State Communications</i> , 2015, 204, 61-63.	1.9	4
122	Effect of boron incorporation on light emission characteristics of UV BAIGaN/AlN quantum well structures. <i>Applied Physics Express</i> , 2016, 9, 021001.	2.4	4
123	Modeling of Semiconductor Nanowire Field-Effect Transistors Considering Schottky-Barrier-Height Lowering. <i>Journal of the Korean Physical Society</i> , 2007, 51, 298.	0.7	4
124	Calculations of hole-phonon scattering in strained-layer quantum wells. <i>Journal of Applied Physics</i> , 1995, 78, 4505-4509.	2.5	3
125	An automated glitch-detection/restoration method of atomic force microscope images. <i>Review of Scientific Instruments</i> , 2002, 73, 3245-3250.	1.3	3
126	Transport study of ultra-thin SOI MOSFETs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 19, 39-43.	2.7	3

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127	Optical Gain in Wurtzite ZnO/ZnMgO Quantum Well Lasers. Japanese Journal of Applied Physics, 2005, 44, L1403-L1406.	1.5	3
128	Hybrid integration of GaAs/AlGaAs in-plane-gate resonant tunneling and field effect transistors. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2160-2162.	2.7	3
129	Magnetic bead detection using nano-transformers. Nanotechnology, 2010, 21, 465501.	2.6	3
130	Black hole state evolution, final state and Hawking radiation. Classical and Quantum Gravity, 2012, 29, 224007.	4.0	3
131	Dispersive finite-difference time-domain (FDTD) analysis of the elliptic cylindrical cloak. Journal of the Korean Physical Society, 2012, 60, 1349-1360.	0.7	3
132	Optical polarization characteristics of m-plane InGaN/GaN quantum well structures and comparison with experiment. Applied Physics Letters, 2013, 103, 101107.	3.3	3
133	Electronic structure of p(2 Å– 3) Ag films on Si(100). Journal of the Korean Physical Society, 2013, 62, 86-91.	0.7	3
134	Hybrid InGaN/CdZnO quantum well structures for optoelectronic applications in the short wavelength spectral region. Physica Status Solidi (B): Basic Research, 2013, 250, 378-381.	1.5	3
135	Full wave finite-difference time-domain study of lossless acoustic bipolar cylindrical cloak with compressed geometry and complementary media. Journal of Applied Physics, 2015, 118, .	2.5	3
136	Theoretical study of a two-dimensional electron gas in wurtzite ZnO/MgZnO heterostructures and comparison with experiment. Journal of the Korean Physical Society, 2015, 67, 1844-1847.	0.7	3
137	Investigation of humidity-dependent size control of local anodic oxidation on graphene by using atomic force microscopy. Journal of the Korean Physical Society, 2015, 66, 617-620.	0.7	3
138	Theoretical studies on light emission characteristics of high-efficiency BInGaN/GaN quantum well structures with blue spectral range. Superlattices and Microstructures, 2016, 96, 150-154.	3.1	3
139	Intersubband absorption coefficients of GaN/AlN and strain-compensated InGaN/InAlN quantum well structures. Superlattices and Microstructures, 2016, 100, 508-513.	3.1	3
140	Effects of a delta-layer insertion on the ultraviolet light emission characteristics of III-nitride quantum well structures. Superlattices and Microstructures, 2017, 112, 665-670.	3.1	3
141	Intersubband absorption of p-type wurtzite GaN/AlN quantum well for fiber-optics telecommunication. Journal of Applied Physics, 2017, 122, 184303.	2.5	3
142	Lattice-matched double dip-shaped BAIGaN/AlN quantum well structures for ultraviolet light emission devices. Superlattices and Microstructures, 2018, 117, 413-417.	3.1	3
143	Substrate dependence of TM-polarized light emission characteristics of BAIGaN/AlN quantum wells. Optics Communications, 2018, 417, 76-78.	2.1	3
144	Gain Switching in Coupled Quantum Wells. Japanese Journal of Applied Physics, 1992, 31, 1055-1058.	1.5	2

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145	Theory of phonon-limited mobility in a delta-doped quantum well. Applied Physics Letters, 1992, 61, 1567-1569.	3.3	2
146	Direct observation of excited states in double quantum dot silicon single electron transistor. Microelectronic Engineering, 2002, 63, 129-133.	2.4	2
147	Transmission-Type Radio-Frequency Single-Electron Transistor with In-Plane-Gate Single-Electron Transistor. Japanese Journal of Applied Physics, 2007, 46, 2592-2595.	1.5	2
148	Explicit Continuous Current-Voltage Models for Fully-Depleted Surrounding-Gate MOSFETs (SGMOSFETs) with a Finite Doping Body. Journal of Nanoscience and Nanotechnology, 2010, 10, 3316-3320.	0.9	2
149	Enhancement of optical gain in Li: CdZnO/ZnMgO quantum well lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2652-2654.	2.7	2
150	Enhancement of light power for strain-compensated hybrid InGaN/InGaMgZnO light-emitting diodes. Applied Physics Letters, 2010, 97, 121107.	3.3	2
151	FDTD Study of Half Cloak in Bipolar Cylindrical Shape With Compressed Geometry and Complementary Media. IEEE Transactions on Antennas and Propagation, 2015, 63, 2317-2320.	5.1	2
152	Optical Gain Characteristics in GaAsPN/GaPN Quantum Well Lasers for Silicon Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 153-159.	2.9	2
153	Dip-Shaped AlGaIn/AlN Light-Emitting Diodes With Delta-Layer Containing Boron. IEEE Photonics Technology Letters, 2017, 29, 1042-1045.	2.5	2
154	Theoretical study of optical properties of non-polar AlGaIn/AlN quantum wells lattice-matched to AlN. Solid State Communications, 2019, 290, 67-69.	1.9	2
155	Strain and built-in potential effects on optical properties of wurtzite GaN/AlInN quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 108, 112-115.	2.7	2
156	Wigner Rotation of Spin 1/2 Particles in Rindler Spacetime. Journal of the Korean Physical Society, 2007, 50, 6-9.	0.7	2
157	Effects of Confinement on the Valley Splitting of Si Quantum Structures. Journal of the Korean Physical Society, 2008, 53, 3322-3327.	0.7	2
158	A Bottom-gate Depletion-mode Nanowire Field Effect Transistor(NWFET) Model Including a Schottky Diode Model. Journal of the Korean Physical Society, 2009, 55, 1162-1166.	0.7	2
159	Quantum mechanical rotation of a photon polarization by Earth's gravitational field. Npj Quantum Information, 2021, 7, .	6.7	2
160	Optical gain control model of the quantum-well laser diode. Journal of Applied Physics, 1991, 70, 5246-5253.	2.5	1
161	Single-electron tunneling in silicon-on-insulator nano-wire transistors. Superlattices and Microstructures, 2003, 34, 245-251.	3.1	1
162	Hawking effects as a noisy quantum channel. Journal of the Korean Physical Society, 2018, 72, 201-207.	0.7	1

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