Yia-Chung Chang

List of Publications by Year
in descending order

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373 papers	9,626 citations	41258 49 h-index	51492 86 g-index
377 all docs	377 docs citations	377 times ranked	5450 citing authors

#	Article	IF	Citations
1	Comprehensive analysis of Si-dopedAlxGa1â^'xAs(x=0ÂtoÂ1): Theory and experiments. Physical Review B, 1984, 30, 4481-4492.	1.1	398
2	Energy spectra of donors inGaAsâ^'Ga1â^'xAlxAsquantum well structures in the effective-mass approximation. Physical Review B, 1982, 26, 4449-4457.	1.1	360
3	Theory of optical properties of quantum wires in porous silicon. Physical Review B, 1992, 45, 9202-9213.	1.1	324
4	Band mixing in semiconductor superlattices. Physical Review B, 1985, 31, 2056-2068.	1.1	297
5	Interband optical transitions in GaAs-Ga1â^'xAlxAs and InAs-GaSb superlattices. Physical Review B, 1985, 31, 2069-2079.	1.1	256
6	Wide-angle polarization independent infrared broadband absorbers based on metallic multi-sized disk arrays. Optics Express, 2012, 20, 10376.	1.7	216
7	Absorption coefficients and exciton oscillator strengths in AlGaAs-GaAs superlattices. Physical Review B, 1985, 32, 8027-8034.	1.1	187
8	Efficiency Enhancement of GaAs Photovoltaics Employing Antireflective Indium Tin Oxide Nanocolumns. Advanced Materials, 2009, 21, 1618-1621.	11.1	165
9	Theory of phonon dispersion relations in semiconductor superlattices. Physical Review B, 1984, 30, 7037-7059.	1.1	162
10	Complex band structures of crystalline solids: An eigenvalue method. Physical Review B, 1982, 25, 3975-3986.	1.1	154
11	Saturation of intersubband transitions inp-type semiconductor quantum wells. Physical Review B, 1989, 39, 12672-12681.	1.1	150
12	Binding energies of acceptors in GaAs-AlxGa1â^'xAsquantum wells. Physical Review B, 1983, 28, 7373-7376.	1.1	149
13	Effect of band hybridization on exciton states in GaAs-AlxGa1â^'xAs quantum wells. Physical Review B, 1985, 32, 5517-5520.	1.1	147
14	Theory of photoabsorption in modulation-doped semiconductor quantum wells. Physical Review B, 1987, 35, 1300-1315.	1.1	147
15	Acceptor spectra ofAlxGa1â^'xAs-GaAs quantum wells in external fields: Electric, magnetic, and uniaxial stress. Physical Review B, 1985, 32, 5190-5201.	1.1	145
16	New evidence of extensive valence-band mixing in GaAs quantum wells through excitation photoluminescence studies. Physical Review B, 1985, 32, 8452-8454.	1.1	142
17	New method for calculating electronic properties of superlattices using complex band structures. Physical Review B, 1981, 24, 4445-4448.	1.1	138
18	Î"-Xmixing in GaAs/AlxGa1â^'xAs andAlxGa1â^'xAs/AlAs superlattices. Physical Review B, 1987, 36, 4359-4374.	1.1	134

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19	Bond-orbital models for superlattices. Physical Review B, 1988, 37, 8215-8222.	1.1	134
20	Thermoelectric and thermal rectification properties of quantum dot junctions. Physical Review B, 2010, 81, .	1.1	132
21	Effects of quasi-interface states in HgTe-CdTe superlattices. Physical Review B, 1985, 31, 2557-2560.	1.1	130
22	Anisotropy of optical phonons and interface modes in GaAs-AlAs superlattices. Physical Review B, 1988, 37, 8899-8911.	1.1	122
23	Theory of dielectric-function anisotropies of (001) GaAs (2Ã—1) surfaces. Physical Review B, 1990, 41, 12002-12012.	1.1	117
24	Reduced Hamiltonian method for solving the tight-binding model of interfaces. Physical Review B, 1983, 27, 2346-2354.	1.1	107
25	HgTe-CdTe superlattice subband dispersion. Physical Review B, 1986, 33, 2594-2601.	1.1	103
26	Van der Waals Interaction between Two Crossed Carbon Nanotubes. ACS Nano, 2010, 4, 5937-5945.	7.3	98
27	Complex band structures of zinc-blende materials. Physical Review B, 1982, 25, 605-619.	1.1	89
28	Fine structure of excitons inCu2O. Physical Review B, 1997, 55, 7593-7599.	1.1	82
29	Planar-basis pseudopotential calculations of the Si(001)2Ã—1 surface with and without hydrogen passivation. Physical Review B, 1993, 48, 12032-12036.	1.1	80
30	Signatures of moirÃ© trions in WSe2/MoSe2 heterobilayers. Nature, 2021, 594, 46-50.	13.7	77
31	Synthesis and characterization of electropolymerized molecularly imprinted microporous polyaniline films for solar cell applications. Polymer Composites, 2013, 34, 299-304.	2.3	76
32	Submonolayer quantum dot infrared photodetector. Applied Physics Letters, 2009, 94, .	1.5	75
33	Effects of uniaxial stress on the electronic and optical properties of GaAs-AlxGa1â^'xAs quantum wells. Physical Review B, 1985, 32, 4282-4285.	1.1	74
34	First Principles Calculations of Linear and Second-Order Optical Responses in Rhombohedrally Distorted Perovskite Ternary Halides, CsGeX₃(X = Cl, Br, and I). Japanese Journal of Applied Physics, 2009, 48, 112402.	0.8	72
35	Simulation of optical excitation spectra of semiconductor nanowires within effective bond orbital model. Computer Physics Communications, 2015, 196, 92-112.	3.0	69
36	Valley-selective chiral phonon replicas of dark excitons and trions in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2019, 1, .	1.3	69

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37	Valence-subband structures of GaAs/AlxGa1â^'xAs quantum wires: The effect of split-off bands. Physical Review B, 1989, 40, 5507-5514.	1.1	64
38	Saddle-point excitons in solids and superlattices. Physical Review B, 1987, 36, 2946-2949.	1.1	62
39	Theory of line shapes of exciton resonances in semiconductor superlattices. Physical Review B, 1989, 39, 10861-10871.	1.1	62
40	Effective bond-orbital model for acceptor states in semiconductors and quantum dots. Physical Review B, 1989, 40, 9683-9697.	1.1	61
41	Electron tunneling rate in quantum dots under a uniform electric field. Physical Review B, 2000, 61, 11051-11056.	1.1	60
42	Theory of optical anisotropy in quantum-well-wire arrays with two-dimensional quantum confinement. Physical Review B, 1991, 43, 11703-11719.	1.1	59
43	Reflection and emission properties of an infrared emitter. Optics Express, 2007, 15, 14673.	1.7	57
44	Multipath Optical Recombination of Intervalley Dark Excitons and Trions in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2020, 124, 196802.	2.9	57
45	Radiative decay of the bound exciton in direct-gap semiconductors: The correlation effect. Physical Review B, 1983, 28, 5887-5896.	1.1	55
46	Anisotropy of optical phonons in GaAs-AlAs superlattices. Physical Review Letters, 1987, 59, 1841-1844.	2.9	55
47	Field enhancement factor and field emission from a hemi-ellipsoidal metallic needle. Ultramicroscopy, 2009, 109, 373-378.	0.8	55
48	6-Mercaptohexanoic acid assisted synthesis of high quality InP quantum dots for optoelectronic applications. Superlattices and Microstructures, 2013, 56, 86-91.	1.4	55
49	Band-mixing effect on the emission spectrum of modulation-doped semiconductor quantum wells. Physical Review B, 1985, 32, 5521-5524.	1.1	54
50	T-shaped plasmonic array as a narrow-band thermal emitter or biosensor. Optics Express, 2009, 17, 13526.	1.7	51
51	A Design Based on a Charge-Transfer Bilayer as an Electron Transport Layer for Improving the Performance and Stability in Planar Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 236-244.	1.5	50
52	Dresselhaus effect in bulk wurtzite materials. Applied Physics Letters, 2007, 91, .	1.5	47
53	Cesium doped and undoped ZnO nanocrystalline thin films: a comparative study of structural and microâ€Raman investigation of optical phonons. Journal of Raman Spectroscopy, 2010, 41, 1594-1600.	1.2	44
54	Energy levels of one and two holes in parabolic quantum dots. Physical Review B, 1996, 53, 1507-1516.	1.1	43

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55	Enhanced localized plasmonic detections using partially-embedded gold nanoparticles and ellipsometric measurements. Biomedical Optics Express, 2012, 3, 899.	1.5	42
56	Development of nanoimprinted InP QDs decorated polyaniline solar cell with conversion efficiency 3%. Organic Electronics, 2013, 14, 2762-2769.	1.4	42
57	Symmetrized-basis LASTO calculations of defects in CdTe and ZnTe. Physical Review B, 2006, 73, .	1.1	41
58	Tunneling Current Spectroscopy of a Nanostructure Junction Involving Multiple Energy Levels. Physical Review Letters, 2007, 99, 086803.	2.9	41
59	Angle and polarization independent narrow-band thermal emitter made of metallic disk on SiO2. Applied Physics Letters, 2011, 98, .	1.5	41
60	Miniband dispersion and excitonic effects on the optical spectra of GaAs/AlxGa1â^'xAs superlattices. Physical Review B, 1989, 40, 5802-5805.	1.1	40
61	Electronic structures and optical properties of short-period GaAs/AlAs superlattices. Physical Review B, 1990, 42, 1781-1790.	1.1	40
62	Modeling self-assembled quantum dots by the effective bond-orbital method. Physical Review B, 2000, 62, 13631-13640.	1.1	40
63	Crossover from trion-hole complex to exciton-polaron in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math>-doped two-dimensional semiconductor quantum wells. Physical Review B, 2018, 98, .	1.1	40
64	Magnetophotoluminescence of exciton Rydberg states in monolayer WSe2. Physical Review B, 2019, 99, .	1.1	40
65	Excitons associated with subband dispersion in GaAs/AlxGa1â^'xAs superlattices. Physical Review B, 1989, 39, 5562-5565.	1.1	39
66	Theory of charge transport in a quantum dot tunnel junction with multiple energy levels. Physical Review B, 2008, 77, .	1.1	38
67	Optical cavity modes of a single crystalline zinc oxide microsphere. Optics Express, 2013, 21, 3010.	1.7	38
68	Coral-like perovskite nanostructures for enhanced light-harvesting and accelerated charge extraction in perovskite solar cells. Nano Energy, 2019, 58, 138-146.	8.2	38
69	Theoretical study of phosphorusÎ´-doped silicon for quantum computing. Physical Review B, 2005, 71, .	1.1	36
70	Long-wavelength optical phonons in polar superlattices. Physical Review B, 1988, 37, 10746-10755.	1.1	35
71	Phonon-polariton modes in superlattices: The effect of spatial dispersion. Physical Review B, 1988, 38, 12369-12376.	1.1	35
72	Effective bond-orbital model for shallow acceptors in GaAs-AlxGa1â^'xAs quantum wells and superlattices. Physical Review B, 1990, 41, 1447-1460.	1.1	34

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73	Inversion asymmetry, hole mixing, and enhanced Pockels effect in quantum wells and superlattices. Physical Review B, 1994, 50, 11932-11948.	1.1	34
74	Exciton-polaron Rydberg states in monolayer MoSe2 and WSe2. Nature Communications, 2021, 12, 6131.	5.8	34
75	Optical phonons in GaAs/AlAs quantum wires. Physical Review B, 1991, 43, 11857-11863.	1.1	32
76	Plasmon-Enhanced Solar-Driven Hydrogen Evolution Using Titanium Nitride Metasurface Broadband Absorbers. ACS Photonics, 2021, 8, 3125-3132.	3.2	32
77	Characterization of Si nanorods by spectroscopic ellipsometry with efficient theoretical modeling. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 876-879.	0.8	31
78	Combined micro- and nano-scale surface textures for enhanced near-infrared light harvesting in silicon photovoltaics. Nanotechnology, 2011, 22, 095201.	1.3	31
79	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. ACS Applied Materials & Interfaces, 2018, 10, 17973-17984.	4.0	31
80	Trion ground state, excited states, and absorption spectrum using electron-exciton basis. Physical Review B, 2012, 86, .	1.1	30
81	Electronic properties of sulfur-treated GaAs(001) surfaces. Physical Review B, 1990, 41, 7705-7712.	1.1	28
82	Interlayer exchange coupling in Fe/Cr multilayers. Physical Review B, 1997, 55, 11586-11592.	1.1	28
83	Theory of spin blockade, charge ratchet effect, and thermoelectrical behavior in serially coupled quantum dot system. Physical Review B, 2011, 84, .	1.1	28
84	Energy spectra of donors in GaAsî—¸Ga1â^'xAlxAs quantum well structures. Surface Science, 1982, 113, 161-164.	0.8	27
85	Line-shape theory of magnetoabsorption in semiconductor superlattices. Physical Review B, 1989, 40, 5497-5506.	1.1	27
86	Effects of realistic band structures on the interlayer coupling strengths in magnetic multilayers. Physical Review B, 1995, 52, 3499-3510.	1.1	27
87	Magnetic-field effects on one- and two-hole states in parabolic quantum dots. Physical Review B, 1997, 55, 4580-4588.	1.1	27
88	Ellipsometry study on gold-nanoparticle-coated gold thin film for biosensing application. Biomedical Optics Express, 2011, 2, 2569.	1.5	27
89	Model Hamiltonian of donors in indirect-gap materials. Physical Review B, 1981, 23, 4169-4182.	1.1	26
90	Surface plasmon resonance ellipsometry based sensor for studying biomolecular interaction. Biosensors and Bioelectronics, 2010, 25, 2633-2638.	5.3	26

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91	Screened field enhancement factor for the floating sphere model of a carbon nanotube array. Journal of Applied Physics, 2011, 110, .	1.1	26
92	Electronic structures of GdAs/GaAs superlattices. Physical Review B, 1991, 43, 1692-1698.	1.1	25
93	Efficient simulation of intensity profile of light through subpixel-matched lenticular lens array for two- and four-view auto-stereoscopic liquid-crystal display. Applied Optics, 2013, 52, A356.	0.9	25
94	Landau-Quantized Excitonic Absorption and Luminescence in a Monolayer Valley Semiconductor. Physical Review Letters, 2020, 124, 097401.	2.9	25
95	Fundamental solutions for real-time optical CD metrology. , 2002, 4689, 163.		24
96	Angle-independent plasmonic infrared band-stop reflective filter based on the Ag/SiO_2/Ag T-shaped array. Optics Letters, 2011, 36, 1440.	1.7	24
97	Investigations on structural, optical and electrical properties of p-type ZnO nanorods using hydrothermal method. Thin Solid Films, 2012, 520, 2589-2593.	0.8	24
98	An omni-directional mid-infrared tunable plasmonic polarization filter. Nanotechnology, 2012, 23, 444007.	1.3	24
99	Theory of the Exciton Bound to an Isoelectronic Trap in GaP. Physical Review Letters, 1983, 51, 509-512.	2.9	23
100	Electronic and optical properties of GaAs(001) (2Ã—4) and (4Ã—2) surfaces. Physical Review B, 1991, 44, 13573-13581.	1.1	23
101	Electronic structures of As/Si(001) 2Ã—1 and Sb/Si(001) 2Ã—1 surfaces. Physical Review B, 1994, 50, 8675-8680.	1.1	23
102	Electronic structure of the Si(001)2 Ã— 1:H surface and pathway for H2 desorption. Surface Science, 1995, 330, 20-26.	0.8	23
103	Tunneling current through a quantum dot array. Applied Physics Letters, 2001, 79, 3851-3853.	1.5	23
104	Efficient finite-element, Green's function approach for critical-dimension metrology of three-dimensional gratings on multilayer films. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 638.	0.8	23
105	Nonmagnetic control of spin flow: Generation of pure spin current in a Rashba-Dresselhaus quantum channel. Physical Review B, 2008, 78, .	1.1	23
106	Electronic and optical properties ofHgI2. Physical Review B, 1992, 46, 15040-15045.	1.1	22
107	Theory of the electronic structure of porous Si. Physical Review B, 1993, 48, 5179-5186.	1.1	22
108	Electric near-field enhancement of a sharp semi-infinite conical probe: Material and cone angle dependence. Physical Review B, 2006, 74, .	1.1	22

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109	Theory of confinement effects in finite one-dimensional phononic crystals. Physical Review B, 2007, 75, .	1.1	22
110	Universal Curves for the van der Waals Interaction between Single-Walled Carbon Nanotubes. Langmuir, 2012, 28, 1276-1282.	1.6	22
111	Shallow impurities in semiconductor quantum wells. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1987, 146, 137-149.	0.9	21
112	Excited states of the light- and heavy-hole free excitons observed in photoreflectance. Physical Review B, 1989, 39, 1442-1445.	1.1	21
113	Effect ofdelectrons in transition-metal ions on band-gap energies of diluted magnetic semiconductors. Physical Review B, 1993, 48, 17770-17775.	1.1	21
114	Phonon dispersion and polar-optical scattering in 2HPbI2. Physical Review B, 1997, 55, 8219-8225.	1.1	21
115	InAs critical-point energies at 22 K from spectroscopic ellipsometry. Applied Physics Letters, 2010, 97, 171912.	1.5	21
116	Investigation of surface plasmon biosensing using gold nanoparticles enhanced ellipsometry. Optics Letters, 2011, 36, 775.	1.7	21
117	Compact microdisk cavity laser with type-II GaSb/GaAs quantum dots. Applied Physics Letters, 2011, 98, 051105.	1.5	21
118	Surface dielectric functions of (2Ã—1) and (1Ã—2) reconstructions of (001) GaAs surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1990, 8, 896.	1.6	20
119	Tunneling current and emission spectrum of a single-electron transistor under optical pumping. Physical Review B, 2005, 72, .	1.1	20
120	Optical properties of core-shell particle composites. II. Nonlinear response. Chemical Physics Letters, 2007, 439, 121-126.	1.2	20
121	Corrected field enhancement factor for the floating sphere model of carbon nanotube emitter. Journal of Applied Physics, 2010, 108, 044502.	1.1	20
122	Large enhancement in thermoelectric efficiency of quantum dot junctions due to increase of level degeneracy. Physical Review B, 2017, 95, .	1.1	20
123	Effective mass approach to the RKKY interaction in magnetic multilayers. Physical Review B, 1995, 51, 316-325.	1.1	19
124	Dielectric function and critical points of AlP determined by spectroscopic ellipsometry. Journal of Alloys and Compounds, 2014, 587, 361-364.	2.8	19
125	Phonon dispersion curves of GaAs-AlAs superlattices grown in the [111] and [110] directions. Physical Review B, 1989, 40, 3060-3065.	1.1	18
126	Singularities in the optical spectra of a system involving a Fermi sea of electrons and a localized hole: A method for obtaining many-body wave functions. Physical Review B, 1991, 43, 12556-12563.	1.1	18

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127	Theory of giant magnetoresistance in magnetic granular systems. Physical Review B, 1993, 48, 4156-4159.	1.1	18
128	Analytical approach for type-II semiconductor spherical coreâ€“shell quantum dots heterostructures with wide band gaps. Superlattices and Microstructures, 2013, 60, 475-486.	1.4	18
129	Theoretical studies of graphene nanoribbon quantum dot qubits. Physical Review B, 2015, 92, .	1.1	18
130	Noncanonical-transformation approach to the x-ray-edge problem. Physical Review B, 1991, 44, 5877-5880.	1.1	17
131	Quantum Monte Carlo studies of binding energy and radiative lifetime of bound excitons in direct-gap semiconductors. Physical Review B, 1993, 47, 13246-13259.	1.1	17
132	Redshifting and broadening of quantum-well infrared photodetector's response via impurity-free vacancy disordering. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 746-757.	1.9	17
133	Quantum well intrasubband photodetector for far infared and terahertz radiation detection. Applied Physics Letters, 2007, 91, .	1.5	17
134	Polarization dependence of the excitonic optical Stark effect in GaN. Physical Review B, 2002, 65, .	1.1	16
135	Dielectric functions and electronic structure of InAsxP1â^'x films on InP. Applied Physics Letters, 2007, 91, .	1.5	16
136	Finite Temperature Formalism for Composite Quantum Particles. Physical Review Letters, 2011, 106, 206403.	2.9	16
137	Size and morphology dependent evolution of resonant modes in ZnO microspheres grown by hydrothermal synthesis. Optics Express, 2016, 24, 16010.	1.7	16
138	Whispering gallery modes in hybrid Au-ZnO microsphere resonators: experimental and theoretical investigations. Optical Materials Express, 2017, 7, 2962.	1.6	16
139	L-valley-derived states in (001) GaSb/AlSb quantum wells and superlattices. Physical Review B, 1988, 38, 3414-3422.	1.1	14
140	Noncanonical-transformation approach to the problem of an itinerant particle interacting with a Fermi sea. Physical Review B, 1993, 47, 6573-6584.	1.1	14
141	Plasmon-polariton band structures of asymmetric T-shaped plasmonic gratings. Optics Express, 2010, 18, 2509.	1.7	14
142	Laser-induced breathing modes in metallic nanoparticles: A symmetric molecular dynamics study. Journal of Chemical Physics, 2011, 134, 094116.	1.2	14
143	Coboson many-body formalism for cold-atom dimers with attraction between different fermion species only. Physical Review A, 2016, 93, .	1.0	14
144	Interference effect in multivalley quantum well structures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1983, 1, 435.	1.6	13

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145	Single-particle Green functions in exactly solvable models of Bose and Fermi liquids. Physical Review B, 1998, 57, 15144-15166.	1.1	13
146	Plasmonic multilayer structure for ultrathin amorphous silicon film photovoltaic cell. Optical Review, 2009, 16, 343-346.	1.2	13
147	Disorder effect on the photoabsorption of III-V semiconductor alloys. Physical Review B, 1984, 30, 3309-3315.	1.1	12
148	Long-lived excitons in InAs quantum wells under uniaxial stress. Physical Review B, 1987, 36, 7955-7963.	1.1	12
149	Analytical Greenâ€™s-function calculation of the interlayer exchange coupling in Fe/Cr multilayers. Physical Review B, 1997, 56, R11392-R11395.	1.1	12
150	Dynamic behavior of electron tunneling and dark current in quantum well systems under an electric field. Physical Review B, 1999, 60, 15957-15964.	1.1	12
151	Surface states/modes in one-dimensional semi-infinite crystals. Annals of Physics, 2010, 325, 937-947.	1.0	12
152	Phonons in semiconductor superlattices. Superlattices and Microstructures, 1991, 9, 383-389.	1.4	11
153	Excitons bound to isoelectronic Te traps in ZnSe quantum wells: A theoretical study. Physical Review B, 1991, 44, 8068-8083.	1.1	11
154	Aspect-ratio-dependent ultra-low reflection and luminescence of dry-etched Si nanopillars on Si substrate. Nanotechnology, 2009, 20, 035303.	1.3	11
155	One-dimensional quantum waveguide theory of Rashba electrons. Journal of Applied Physics, 2009, 106, .	1.1	11
156	Effective Dielectric Properties of Biological Cells: Generalization of the Spectral Density Function Approach. Journal of Physical Chemistry B, 2009, 113, 9924-9931.	1.2	11
157	Effects of interdot hopping and Coulomb blockade on the thermoelectric properties of serially coupled quantum dots. Nanoscale Research Letters, 2012, 7, 257.	3.1	11
158	Electronic structure and absorption spectrum of biexciton obtained by using exciton basis. Annals of Physics, 2013, 336, 309-330.	1.0	11
159	Dynamical many-body corrections to the residual resistivity of metals. Physical Review B, 2014, 89, .	1.1	11
160	Interplay of Purcell Effect, Stimulated Emission, and Leaky Modes in the Photoluminescence Spectra of Microsphere Cavities. Physical Review Applied, 2019, 11, .	1.5	11
161	Electrically Switchable Intervalley Excitons with Strong Two-Phonon Scattering in Bilayer WSe₂. Nano Letters, 2022, 22, 1829-1835.	4.5	11
162	Theory of fine-structure splittings for donor-bound excitons in indirect materials. Physical Review B, 1982, 25, 3945-3962.	1.1	10

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163	Multiple Quantum Well Spatial Light Modulators For Optical Processing Applications. Optical Engineering, 1988, 27, .	0.5	10
164	Simulation of Si:P spin-based quantum computer architecture. Physical Review B, 2005, 72, .	1.1	10
165	Optical characterization of CO2-laser-ablated Si-rich SiOx. Applied Physics Letters, 2007, 90, 151903.	1.5	10
166	Manipulative depolarization and reflectance spectra of morphologically controlled nano-pillars and nano-rods. Optics Express, 2009, 17, 20824.	1.7	10
167	Spin-degenerate surface and the resonant spin lifetime transistor in wurtzite structures. Journal of Applied Physics, 2010, 108, 083718.	1.1	10
168	Partially embedded gold nanoislands in a glass substrate for SERS applications. RSC Advances, 2014, 4, 55247-55251.	1.7	10
169	Enhanced emission and photoconductivity due to photo-induced charge transfer from Au nanoislands to ZnO. Applied Physics Letters, 2016, 108, 041104.	1.5	10
170	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. Optics Express, 2016, 24, 17910.	1.7	10
171	Optical Properties of GaN by Using Ellipsometry and a Band Calculation. Journal of the Korean Physical Society, 2008, 53, 1575-1579.	0.3	10
172	Thermodynamics of the Massive Thirring Model: The Discontinuity in Soliton Mass. Physical Review Letters, 1983, 50, 791-794.	2.9	9
173	FactorizedS-Matrix Method for the Thermodynamics of the Massive Thirring Model. Physical Review Letters, 1983, 51, 241-244.	2.9	9
174	Extrinsic contributions to photoreflectance ofAlxGa1â^'xAs/GaAs quantum wells: An investigation of the â€˜â€˜donor-relatedâ€™â€™ feature. Physical Review B, 1989, 39, 11038-11043.	1.1	9
175	Quantum Monte Carlo study of polyexcitons in semiconductors. Physical Review B, 1990, 42, 11317-11324.	1.1	9
176	Band structures and optical properties of Ga1â^'xInxAs quantum wires grown by strain-induced lateral ordering. Journal of Applied Physics, 1998, 84, 6162-6169.	1.1	9
177	Stability of ion-bound excitons in two dimensions. Physical Review B, 2002, 66, .	1.1	9
178	Optical properties of self-assembled quantum wires for application in infra-red detection. Infrared Physics and Technology, 2003, 44, 57-67.	1.3	9
179	Dots, QWISPs, and BIRDs. Infrared Physics and Technology, 2009, 52, 294-298.	1.3	9
180	Characterization of the surface plasmon polariton band gap in an Ag/SiO_2/Ag T-shaped periodical structure. Optics Express, 2011, 19, 23698.	1.7	9

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181	Thermoelectric properties of a quantum dot array connected to metallic electrodes. Nanotechnology, 2013, 24, 175403.	1.3	9
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