

# 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	Autofocus of imaging ellipsometry. <i>Applied Optics</i> , 2022, 61, 2045-2048.	0.9	1
2	Near-field spectroscopic imaging of exciton quenching at atomically sharp MoS <sub>2</sub> /WS <sub>2</sub> lateral heterojunctions. <i>Nanoscale</i> , 2022, , .	2.8	1
3	Electrically Switchable Intervalley Excitons with Strong Two-Phonon Scattering in Bilayer WSe <sub>2</sub> . <i>Nano Letters</i> , 2022, 22, 1829-1835.	4.5	11
4	Density functional calculations of atomic structure, charging effect, and static dielectric constant of two-dimensional systems based on B-splines. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 140, 115203.	1.3	1
5	Modeling photocurrent spectra of high-indium-content InGaN disk-in-wire photodiode on silicon substrate. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 144, 115371.	1.3	1
6	Transfer current in p-type graphene/MoS <sub>2</sub> heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 125, 114383.	1.3	2
7	Effects of defects and surface roughness on high-Q modes in ZnO microspheres. <i>Optical Materials Express</i> , 2021, 11, 1568.	1.6	2
8	Determination of Dispersion Relation and Optical Parameters Induced by Exciton-Polariton Effect in Whispering-Gallery Microcavities Using Photoluminescence Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 1413-1420.	3.2	7
9	Signatures of moiré trions in WSe <sub>2</sub> /MoSe <sub>2</sub> heterobilayers. <i>Nature</i> , 2021, 594, 46-50.	13.7	77
10	Variationally optimized orbital approach to trions in two-dimensional materials. <i>Journal of Chemical Physics</i> , 2021, 155, 024110.	1.2	7
11	Bloch-Grüneisen temperature and universal scaling of normalized resistivity in doped graphene revisited. <i>Physical Review B</i> , 2021, 103, .	1.1	3
12	Characteristics of multi-mode lasing in cesium lead bromide perovskite microwires with an isosceles right triangle cross-section. <i>Optics Express</i> , 2021, 29, 37797.	1.7	3
13	Exciton-polaron Rydberg states in monolayer MoSe <sub>2</sub> and WSe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 6131.	5.8	34
14	Plasmon-Enhanced Solar-Driven Hydrogen Evolution Using Titanium Nitride Metasurface Broadband Absorbers. <i>ACS Photonics</i> , 2021, 8, 3125-3132.	3.2	32
15	Modeling Photocurrent Spectra of High-Indium-Content InN/InGaN Disk-in-Wire Photodiodes. , 2021, , .		0
16	Superlattice nanowire heat engines with direction-dependent power output and heat current. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 115, 113671.	1.3	3
17	Multipath Optical Recombination of Intervalley Dark Excitons and Trions in Monolayer $WSe_2$ . <i>Physical Review Letters</i> , 2020, 124, 196802.	2.9	57
18	Photonic Crystal Circular Nanobeam Cavity Laser with Type-II GaSb/GaAs Quantum Rings as Gain Material. <i>Scientific Reports</i> , 2020, 10, 4757.	1.6	3

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19	Landau-Quantized Excitonic Absorption and Luminescence in a Monolayer Valley Semiconductor. <i>Physical Review Letters</i> , 2020, 124, 097401.	2.9	25
20	Full consideration of acoustic phonon scatterings in two-dimensional Dirac materials. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3999-4009.	1.3	7
21	Effective bond-orbital model of III-nitride wurtzite structures based on modified interaction parameters of zinc-blende structures. <i>Computer Physics Communications</i> , 2020, 252, 107139.	3.0	8
22	Nanometer Resolution of Tip-Enhanced Raman Spectroscopy in Tunneling Regime. , 2020, , .		0
23	Coupling of WGM modes of two ZnO microspheres in contact: experiment and simulation. , 2020, , .		0
24	Photoluminescence spectra of ZnO microspheres: effects of exciton-polariton and Purcell factor. <i>MRS Advances</i> , 2019, 4, 1759-1767.	0.5	0
25	Interplay of Purcell Effect, Stimulated Emission, and Leaky Modes in the Photoluminescence Spectra of Microsphere Cavities. <i>Physical Review Applied</i> , 2019, 11, .	1.5	11
26	Magnetophotoluminescence of exciton Rydberg states in monolayer WSe <sub>2</sub> . <i>Physical Review B</i> , 2019, 99, .	1.1	40
27	Application of van der Waals density functionals to two dimensional systems based on a mixed basis approach. <i>Computer Physics Communications</i> , 2019, 238, 138-144.	3.0	1
28	Coboson many-body formalism for atom-dimer scattering length. <i>Annals of Physics</i> , 2019, 400, 366-382.	1.0	0
29	Coral-like perovskite nanostructures for enhanced light-harvesting and accelerated charge extraction in perovskite solar cells. <i>Nano Energy</i> , 2019, 58, 138-146.	8.2	38
30	Valley-selective chiral phonon replicas of dark excitons and trions in monolayer $WS_2$ . <i>Physical Review Research</i> , 2019, 1, .	1.3	69
31	The influence of gold nanoparticles on photoluminescence spectra on zinc oxide microspheres. , 2019, , .		0
32	Optimizing thermoelectric efficiency of superlattice nanowires at room temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 102, 39-43.	1.3	1
33	Well-aligned Vertically Oriented ZnO Nanorod Arrays and their Application in Inverted Small Molecule Solar Cells. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
34	A Design Based on a Charge-Transfer Bilayer as an Electron Transport Layer for Improving the Performance and Stability in Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 236-244.	1.5	50
35	Heat Diodes Made of Quantum-Dot Nanowires. , 2018, , .		0
36	Crossover from trion-hole complex to exciton-polaron in $n$ -doped two-dimensional semiconductor quantum wells. <i>Physical Review B</i> , 2018, 98, .	1.1	40

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37	Efficient Modeling of Optical Excitations of Colloidal Core-Shell Semiconductor Quantum Dots by Using Symmetrized Orbitals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9910-9921.	1.1	5
38	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17973-17984.	4.0	31
39	Microscopic imaging ellipsometry of submicron-scale bacterial cells. <i>Tropical Journal of Pharmaceutical Research</i> , 2018, 16, 2713.	0.2	2
40	Emission spectra of hexagonal zinc oxide microrods due to resonant modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2228.	0.9	4
41	Large enhancement in thermoelectric efficiency of quantum dot junctions due to increase of level degeneracy. <i>Physical Review B</i> , 2017, 95, .	1.1	20
42	Way to observe the implausible "trion-polariton". <i>Europhysics Letters</i> , 2017, 117, 57001.	0.7	7
43	Study of targeted-treatment on colon cancer cell via spectroscopic imaging ellipsometry. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
44	Biosensing via light scattering from plasmonic core-shell nanospheres coated with DNA molecules. , 2017, , .		0
45	Sensing of <i>Streptococcus mutans</i> by microscopic imaging ellipsometry. <i>Journal of Biomedical Optics</i> , 2017, 22, 056005.	1.4	1
46	Effect of High Substrate Temperature on Morphology, Structural and Optical Properties of CdZnS Nanostructures. <i>Materials Science Forum</i> , 2017, 886, 24-31.	0.3	4
47	Time-dependent density functional theory calculations for the excitation spectra of III-V ternary alloys. <i>Physical Review B</i> , 2017, 96, .	1.1	7
48	Extraordinary high- and low-momentum lossless plasmonic modes in one-dimensional metamaterials. <i>Optical Materials Express</i> , 2017, 7, 766.	1.6	4
49	Whispering gallery modes in hybrid Au-ZnO microsphere resonators: experimental and theoretical investigations. <i>Optical Materials Express</i> , 2017, 7, 2962.	1.6	16
50	Electromagnetically induced transparency and one-dimensional near-unity-refractive-index metamaterials. <i>Optical Materials Express</i> , 2017, 7, 3885.	1.6	0
51	Scattering amplitudes for dark and bright excitons. <i>Europhysics Letters</i> , 2017, 118, 47007.	0.7	3
52	Size and morphology dependent evolution of resonant modes in ZnO microspheres grown by hydrothermal synthesis. <i>Optics Express</i> , 2016, 24, 16010.	1.7	16
53	Correlated-pair approach to composite-boson scattering lengths. <i>Physical Review A</i> , 2016, 94, .	1.0	8
54	Study of biological reaction in cancer cell with spectroscopic imaging ellipsometry. <i>Proceedings of SPIE</i> , 2016, , .	0.8	4

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55	Enhanced emission and photoconductivity due to photo-induced charge transfer from Au nanoislands to ZnO. <i>Applied Physics Letters</i> , 2016, 108, 041104.	1.5	10
56	ITO-free inverted small molecule solar cells. , 2016, , .		0
57	Cancellation of the N-composite-boson correlation energy under a BCS-like potential: A dimensionality-dependent effect. <i>Physical Review A</i> , 2016, 94, .	1.0	0
58	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. <i>Optics Express</i> , 2016, 24, 17910.	1.7	10
59	Size dependent photoluminescence properties of CdZnS nanostructures. <i>Journal of Luminescence</i> , 2016, 179, 574-580.	1.5	9
60	Coboson many-body formalism for cold-atom dimers with attraction between different fermion species only. <i>Physical Review A</i> , 2016, 93, .	1.0	14
61	A mixed basis density functional approach for one-dimensional systems with B-splines. <i>Computer Physics Communications</i> , 2016, 202, 188-195.	3.0	4
62	Correlation energy for elementary bosons: Physics of the singularity. <i>Annals of Physics</i> , 2016, 367, 33-49.	1.0	0
63	Finite-difference time-domain analysis for the dynamics and diffraction of exciton-polaritons. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 1870.	0.8	1
64	Theoretical studies of graphene nanoribbon quantum dot qubits. <i>Physical Review B</i> , 2015, 92, .	1.1	18
65	Lasing action and extraordinary reduction in long radiative lifetime of type-II GaSb/GaAs quantum dots using circular photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	9
66	Optimization of High-Q Coupled Nanobeam Cavity for Label-Free Sensing. <i>Sensors</i> , 2015, 15, 25868-25881.	2.1	9
67	Multiscale Talbot effects in Fibonacci geometry. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 045601.	1.0	2
68	A mixed basis density functional approach for low dimensional systems with B-splines. <i>Computer Physics Communications</i> , 2015, 188, 94-102.	3.0	4
69	Quantum interference and electron correlation in charge transport through triangular quantum dot molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6606-6611.	1.3	2
70	Simulation of optical excitation spectra of semiconductor nanowires within effective bond orbital model. <i>Computer Physics Communications</i> , 2015, 196, 92-112.	3.0	69
71	Partition function of N composite bosons. <i>Annals of Physics</i> , 2015, 360, 268-292.	1.0	0
72	Radial vibration of ultra-small nanoparticles with surface effects. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 85, 287-292.	1.9	8

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73	Efficient Simulation for Light Scattering from Plasmonic Core-Shell Nanospheres on a Substrate for Biosensing. <i>Plasmonics</i> , 2015, 10, 847-860.	1.8	3
74	Crystallinity effects on scaling properties of photoinduced modes in silver nanoprisms. <i>Journal of Chemical Physics</i> , 2015, 142, 074707.	1.2	0
75	Microscopic ellipsometry image of microspheres on a substrate. , 2015, , .		0
76	Quantum interference and structure-dependent orbital-filling effects on the thermoelectric properties of quantum dot molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19386-19393.	1.3	3
77	The sub-monolayer quantum dot infrared photodetector revisited. <i>Infrared Physics and Technology</i> , 2015, 70, 20-24.	1.3	5
78	Efficient simulation of intensity profile of light through subpixel-matched lenticular lens array for two- and four-view autostereoscopic liquid-crystal display: erratum. <i>Applied Optics</i> , 2014, 53, 5640.	0.9	1
79	Arrays of core-shell nanospheres as 3d isotropic broadband ENZ and highly absorbing metamaterials. <i>Optical Materials Express</i> , 2014, 4, 2310.	1.6	9
80	Long-distance coherent tunneling effect on the charge and heat currents in serially coupled triple quantum dots. <i>Physical Review B</i> , 2014, 89, .	1.1	8
81	Theoretical study of electronic transport through quasicrystalline nanotubes using mesh inflation approach. <i>Computer Physics Communications</i> , 2014, 185, 1383-1388.	3.0	1
82	Partially embedded gold nanoislands in a glass substrate for SERS applications. <i>RSC Advances</i> , 2014, 4, 55247-55251.	1.7	10
83	Light scattering from coupled plasmonic nanospheres on a substrate: erratum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2083.	0.9	2
84	Dynamical many-body corrections to the residual resistivity of metals. <i>Physical Review B</i> , 2014, 89, .	1.1	11
85	Dielectric function and critical points of ALP determined by spectroscopic ellipsometry. <i>Journal of Alloys and Compounds</i> , 2014, 587, 361-364.	2.8	19
86	Light scattering from coupled plasmonic nanospheres on a stretchable substrate for application as a biosensor or mechanical sensor. <i>WIT Transactions on Engineering Sciences</i> , 2014, , .	0.0	0
87	Light scattering from coupled plasmonic nanospheres on a stretchable substrate for application as a biosensor or mechanical sensor. <i>WIT Transactions on Engineering Sciences</i> , 2014, , .	0.0	0
88	Interband transitions and dielectric functions of InGaSb alloys. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	6
89	Analytical approach for type-II semiconductor spherical core-shell quantum dots heterostructures with wide band gaps. <i>Superlattices and Microstructures</i> , 2013, 60, 475-486.	1.4	18
90	Near infrared to UV dielectric functions of Al doped ZnO films deposited on c-plane sapphire substrate using pulsed laser deposition. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1533-1537.	1.9	5

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91	Studying the properties of photonic quasi-crystals by the scaling convergence method. Journal Physics D: Applied Physics, 2013, 46, 145106.	1.3	1
92	Thermoelectric properties of a chain of coupled quantum dots embedded in a nanowire. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 04D108.	0.6	2
93	Thermoelectric properties of a quantum dot array connected to metallic electrodes. Nanotechnology, 2013, 24, 175403.	1.3	9
94	Heat rectification effect of serially coupled quantum dots. Applied Physics Letters, 2013, 103, .	1.5	9
95	Development of nanoimprinted InP QDs decorated polyaniline solar cell with conversion efficiency 3%. Organic Electronics, 2013, 14, 2762-2769.	1.4	42
96	Synthesis and characterization of electropolymerized molecularly imprinted microporous polyaniline films for solar cell applications. Polymer Composites, 2013, 34, 299-304.	2.3	76
97	Electronic structure and absorption spectrum of biexciton obtained by using exciton basis. Annals of Physics, 2013, 336, 309-330.	1.0	11
98	Spectroscopic ellipsometry investigation of gold nanoparticles embedded in PDMS for bio-sensing applications. Proceedings of SPIE, 2013, , .	0.8	0
99	Sound Wave Propagation Anisotropy in Silver Nanoprisms: Characterization of Photoinduced Multiple Modes Using the Symmetric Molecular Dynamics Method. Journal of Physical Chemistry C, 2013, 117, 13697-13707.	1.5	2
100	Optical properties of AlAsxSb1-x alloys determined by in situ ellipsometry. Applied Physics Letters, 2013, 103, 011901.	1.5	4
101	Long photon lifetime from microdisk cavity laser with type II GaSb/GaAs quantum dots. , 2013, , .		0
102	6-Mercaptohexanoic acid assisted synthesis of high quality InP quantum dots for optoelectronic applications. Superlattices and Microstructures, 2013, 56, 86-91.	1.4	55
103	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
104	Light scattering from coupled plasmonic nanospheres on a substrate. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2215.	0.9	2
105	Effect of clustering on ellipsometric spectra of randomly distributed gold nanoparticles on a substrate. Optics Express, 2013, 21, 3091.	1.7	3
106	Optical cavity modes of a single crystalline zinc oxide microsphere. Optics Express, 2013, 21, 3010.	1.7	38
107	Effects of valence-band mixing and strain on thermoelectric properties of p-type quantum wells. Journal of Applied Physics, 2013, 113, 113706.	1.1	2
108	P.115: Micropyramid Array with Antireflective Nanostructure Surfaces for Light Extraction Efficiency Enhancement of Organic Light Emitting Devices. Digest of Technical Papers SID International Symposium, 2013, 44, 1417-1420.	0.1	1

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109	Iterative phase retrieval with partially coherent beams. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 075712.	1.0	3
110	Optical metrology of an isolated crystalline zinc oxide microsphere on a gold substrate. , 2013, , .		0
111	Whispering gallery modes of a single crystalline zinc oxide microsphere at visible wavelengths. , 2013, , .		0
112	Long Photon Lifetime from Microdisk Cavity Laser with Type II GaSb/GaAs Quantum Dots. , 2013, , .		0
113	3D Modeling of Single-Domain and Multi-Domain Vertical Alignment LCDs for Direct-View and Microdisplay Geometries. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 561, 203-224.	0.4	2
114	Stress-induced state transitions in flexible liquid-crystal devices. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 445102.	1.3	0
115	Shot noise of multichannel transport in mesoscopic junction systems. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	4
116	Enhanced localized plasmonic detections using partially-embedded gold nanoparticles and ellipsometric measurements. <i>Biomedical Optics Express</i> , 2012, 3, 899.	1.5	42
117	Coupled-wave theory for birefringent photonic quasicrystal structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 382.	0.9	5
118	Using off-specular ellipsometry spectra of dielectric grating-coupled plasmon mode for biosensing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 363.	0.9	3
119	Approximate scheme by the coupled-wave theory to efficiently analyze the influences of moiré phenomena in liquid-crystal devices. <i>Applied Optics</i> , 2012, 51, 5806.	0.9	2
120	Calculation of quasi dispersion curves and quality factors of coupled resonator optical waveguides in photonic-crystal slabs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2510.	0.9	1
121	Trion ground state, excited states, and absorption spectrum using electron-exciton basis. <i>Physical Review B</i> , 2012, 86, .	1.1	30
122	A fork-shaped plasmonic device with polarization-controllable optical confinement. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
123	Wide-angle polarization independent infrared broadband absorbers based on metallic multi-sized disk arrays. <i>Optics Express</i> , 2012, 20, 10376.	1.7	216
124	Effects of interdot hopping and Coulomb blockade on the thermoelectric properties of serially coupled quantum dots. <i>Nanoscale Research Letters</i> , 2012, 7, 257.	3.1	11
125	Parametric modeling of the dielectric function and identification of the critical point of a CdMgTe alloy in the vacuum ultraviolet spectral range. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1219-1223.	0.3	0
126	Universal Curves for the van der Waals Interaction between Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2012, 28, 1276-1282.	1.6	22



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127	Huge SERS enhancement via ZnO nanowires on gold nanoislands. , 2012, , .		0
128	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
129	Photoluminescence probed minority processes in La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> thin films. Journal of Luminescence, 2012, 132, 2209-2212.	1.5	1
130	An omni-directional mid-infrared tunable plasmonic polarization filter. Nanotechnology, 2012, 23, 444007.	1.3	24
131	Efficient simulation of intensity profile of light through subpixel-matched lenticular lens array for auto-stereoscopic liquid crystal display. , 2012, , .		0
132	Theory of spin blockade, charge ratchet effect, and thermoelectrical behavior in serially coupled quantum dot system. Physical Review B, 2011, 84, .	1.1	28
133	Bipolar Thermoelectric Effect in a Serially Coupled Quantum Dot System. Japanese Journal of Applied Physics, 2011, 50, 105003.	0.8	1
134	Combined micro- and nano-scale surface textures for enhanced near-infrared light harvesting in silicon photovoltaics. Nanotechnology, 2011, 22, 095201.	1.3	31
135	Ellipsometry study on gold-nanoparticle-coated gold thin film for biosensing application. Biomedical Optics Express, 2011, 2, 2569.	1.5	27
136	Characterization of the surface plasmon polariton band gap in an Ag/SiO <sub>2</sub> /Ag T-shaped periodical structure. Optics Express, 2011, 19, 23698.	1.7	9
137	Investigation of surface plasmon biosensing using gold nanoparticles enhanced ellipsometry. Optics Letters, 2011, 36, 775.	1.7	21
138	Angle-independent plasmonic infrared band-stop reflective filter based on the Ag/SiO <sub>2</sub> /Ag T-shaped array. Optics Letters, 2011, 36, 1440.	1.7	24
139	Plasmonic biosensing with nanoimprint binary grating using ellipsometry. , 2011, , .		2
140	An Algorithm to Study of the Influence of Partial-Coherent Lights through Three-Dimensional Periodic Microstructures. Japanese Journal of Applied Physics, 2011, 50, 102501.	0.8	1
141	Plasmonic cavity made of defect in an array of asymmetric T-shaped structures. , 2011, , .		1
142	Finite Temperature Formalism for Composite Quantum Particles. Physical Review Letters, 2011, 106, 206403.	2.9	16
143	Compact microdisk cavity laser with type-II GaSb/GaAs quantum dots. Applied Physics Letters, 2011, 98, 051105.	1.5	21
144	Screened field enhancement factor for the floating sphere model of a carbon nanotube array. Journal of Applied Physics, 2011, 110, .	1.1	26

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145	Compound surface textures for enhanced near-infrared light harvesting of crystalline silicon solar cells. , 2011, , .		0
146	A detailed derivation of rigorous coupled wave algorithms for three-dimensional periodic liquid-crystal microstructures. Liquid Crystals, 2011, 38, 241-252.	0.9	7
147	Angle and polarization independent narrow-band thermal emitter made of metallic disk on SiO <sub>2</sub> . Applied Physics Letters, 2011, 98, .	1.5	41
148	Bistability in the Tunnelling Current through a Ring of N Coupled Quantum Dots. Journal of the Physical Society of Japan, 2011, 80, 114717.	0.7	0
149	The frequency-dependent nonlinear optical responses of the ternary nitrides via the first-principles calculations. , 2011, , .		0
150	Laser-induced breathing modes in metallic nanoparticles: A symmetric molecular dynamics study. Journal of Chemical Physics, 2011, 134, 094116.	1.2	14
151	An Algorithm to Study of the Influence of Partial-Coherent Lights through Three-Dimensional Periodic Microstructures. Japanese Journal of Applied Physics, 2011, 50, 102501.	0.8	1
152	Bipolar Thermoelectric Effect in a Serially Coupled Quantum Dot System. Japanese Journal of Applied Physics, 2011, 50, 105003.	0.8	2
153	Local plasmonic resonance based biosensor for investigating DNA hybridization using ellipsometry. , 2010, , .		3
154	Surface states/modes in one-dimensional semi-infinite crystals. Annals of Physics, 2010, 325, 937-947.	1.0	12
155	Rashba electron transport in one-dimensional quantum waveguides. Science China: Physics, Mechanics and Astronomy, 2010, 53, 16-23.	2.0	6
156	Cesium doped and undoped ZnO nanocrystalline thin films: a comparative study of structural and micro-Raman investigation of optical phonons. Journal of Raman Spectroscopy, 2010, 41, 1594-1600.	1.2	44
157	Surface plasmon resonance ellipsometry based sensor for studying biomolecular interaction. Biosensors and Bioelectronics, 2010, 25, 2633-2638.	5.3	26
158	Characterization of the Localized Surface Plasmon Polariton Mode in Ag/SiO <sub>2</sub> /Ag T-shaped Array. , 2010, , .		0
159	Dielectric functions and interband transitions of In <sub>1-x</sub> Al <sub>x</sub> Sb alloys. Applied Physics Letters, 2010, 97, .	1.5	6
160	Thermoelectric Effects of Multiple Quantum Dot Junctions in the Nonlinear Response Regime. Japanese Journal of Applied Physics, 2010, 49, 064301.	0.8	3
161	Communications: On the relation between the scalar and tensor exchange-correlation kernels of the time-dependent density-functional theory. Journal of Chemical Physics, 2010, 133, 021101.	1.2	3
162	Corrected field enhancement factor for the floating sphere model of carbon nanotube emitter. Journal of Applied Physics, 2010, 108, 044502.	1.1	20

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163	Analysis of plasmon-polariton band structures of T-shaped plasmonic gratings. Proceedings of SPIE, 2010, , .	0.8	0
164	Comment on "Model calculation of the scanned field enhancement factor of CNTs". Nanotechnology, 2010, 21, 358001.	1.3	1
165	Thermoelectric and thermal rectification properties of quantum dot junctions. Physical Review B, 2010, 81, .	1.1	132
166	Rashba electron transport in 1D quantum waveguides. , 2010, , .		0
167	Analytical solutions to light scattering by plasmonic nanoparticles with nearly spherical shape and nonlocal effect. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2411.	0.8	8
168	Optical metrology of randomly-distributed Au colloids on a multilayer film. Optics Express, 2010, 18, 1310.	1.7	7
169	Plasmon-polariton band structures of asymmetric T-shaped plasmonic gratings. Optics Express, 2010, 18, 2509.	1.7	14
170	InAs critical-point energies at 22 K from spectroscopic ellipsometry. Applied Physics Letters, 2010, 97, 171912.	1.5	21
171	Spin-degenerate surface and the resonant spin lifetime transistor in wurtzite structures. Journal of Applied Physics, 2010, 108, 083718.	1.1	10
172	Van der Waals Interaction between Two Crossed Carbon Nanotubes. ACS Nano, 2010, 4, 5937-5945.	7.3	98
173	Aspect-ratio-dependent ultra-low reflection and luminescence of dry-etched Si nanopillars on Si substrate. Nanotechnology, 2009, 20, 035303.	1.3	11
174	Bistable States of Quantum Dot Array Junctions for High-Density Memory. Japanese Journal of Applied Physics, 2009, 48, 104504.	0.8	1
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