Lay Kee Ang

List of Publications by Year in Descending Order

181 papers	4,995 citations	39 h-index	61 g-index
251 ext. papers	6,369 ext. citations	5.1 avg, IF	6.28 L-index

#	Paper	IF	Citations
181	Giant tunneling magnetoresistance in atomically thin VSi2N4/MoSi2N4/VSi2N4 magnetic tunnel junction. *Applied Physics Letters*, **2022**, 120, 022401	3.4	3
180	Plexcitonic strong coupling: unique features, applications, and challenges. *Journal Physics D: Applied Physics*, **2022**, 55, 203002	3	4
179	High-Performance Thermionic Energy Converters Based on Cd3As2 Anode. *IEEE Transactions on Electron Devices*, **2022**, 1-7	2.9	
178	Tunable electronic properties and band alignments of MoSi2N4/GaN and MoSi2N4/ZnO van der Waals heterostructures. *Applied Physics Letters*, **2022**, 120, 103101	3.4	4
177	Field Emission in Emerging Two-Dimensional and Topological Materials: A Perspective. *IEEE Transactions on Plasma Science*, **2022**, 1-15	1.3	3
176	Electron acceleration based on Bloch surface waves. *Physics of Plasmas*, **2022**, 29, 063105	2.1	
175	Deep learning-based design of broadband GHz complex and random metasurfaces. *APL Photonics*, **2021**, 6, 106101	5.2	1
174	Concentrated thermionic solar cells using graphene as the collector: theoretical efficiency limit and design rules. *Nanotechnology*, **2021**, 33,	3.4	1
173	Semiconductor-to-metal transition in bilayer MoSi2N4 and WSi2N4 with strain and electric field. *Applied Physics Letters*, **2021**, 118, 113102	3.4	27
172	Angle-Insensitive Toroidal Metasurface for High-Efficiency Sensing. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 1511-1517	4.1	3
171	Strongly anisotropic field emission from highly aligned carbon nanotube films. *Journal of Applied Physics*, **2021**, 129, 125103	2.5	6
170	Space-charge limited current in nanodiodes: Ballistic, collisional, and dynamical effects. *Journal of Applied Physics*, **2021**, 129, 100902	2.5	45
169	Two-dimensional van der Waals electrical contact to monolayer MoSi2N4. *Applied Physics Letters*, **2021**, 118, 013106	3.4	54
168	Designing few-layer graphene Schottky contact solar cells: Theoretical efficiency limits and parametric optimization. *Applied Physics Letters*, **2021**, 118, 053103	3.4	7
167	ZnSe Modified Zinc Metal Anodes: Toward Enhanced Zincophilicity and Ionic Diffusion. *Small*, **2021**, 17, e2101728	11	24
166	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi2N4 and WSi2N4 monolayers. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	25
165	Design of an all-day electrical power generator based on thermoradiative devices. *Science China Technological Sciences*, **2021**, 64, 2166	3.5	4

164	Ultrasensitive Optical Temperature Transducers Based on Surface Plasmon Resonance Enhanced Composited Goos-Hänchen and Imbert-Fedorov Shifts. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-8	3.8	6
163	Physics of electron emission and injection in two-dimensional materials: Theory and simulation. *Informa□□Materi□y*, **2021**, 3, 502-535	23.1	19
162	Superior and tunable gas sensing properties of Janus PtSSe monolayer. *Nano Express*, **2020**, 1, 010042	2	8
161	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. *Physical Review Applied*, **2020**, 13,	4.3	11
160	Broadband strong optical dichroism in topological Dirac semimetals with Fermi velocity anisotropy. *Chinese Physics B*, **2020**, 29, 077802	1.2	3
159	Reducing Contact Resistance in Two-Dimensional-Material-Based Electrical Contacts by Roughness Engineering. *Physical Review Applied*, **2020**, 13,	4.3	17
158	Plasmon-Enhanced Resonant Photoemission Using Atomically Thick Dielectric Coatings. *ACS Nano*, **2020**, 14, 8806-8815	16.7	12
157	Multi-level information fusion to alleviate network congestion. *Information Fusion*, **2020**, 63, 248-255	16.7	39
156	Super-Andreev reflection and longitudinal shift of pseudospin-1 fermions. *Physical Review B*, **2020**, 101,	3.3	2
155	Generalized Scaling Law for Exciton Binding Energy in Two-Dimensional Materials. *Physical Review Applied*, **2020**, 13,	4.3	7
154	Super Kinetically Pseudocapacitive MnCo2S4 Nanourchins toward High-Rate and Highly Stable Sodium-Ion Storage. *Advanced Functional Materials*, **2020**, 30, 1909702	15.6	23
153	Interface engineering by atomically thin layer tungsten disulfide catalyst for high performance Li□ battery. *Materials Today Energy*, **2020**, 16, 100380	7	10
152	Dirac terahertz plasmonics in two and three dimensions. *Optics Communications*, **2020**, 462, 125319	2	5
151	Electronic properties and spintronic applications of carbon phosphide nanoribbons. *Physical Review B*, **2020**, 101,	3.3	4
150	Morphological and Electronic Dual Regulation of Cobalt-Nickel Bimetal Phosphide Heterostructures Inducing High Water-Splitting Performance. *Journal of Physical Chemistry Letters*, **2020**, 11, 3911-3919	6.4	18
149	Efficient generation of extreme terahertz harmonics in three-dimensional Dirac semimetals. *Physical Review Research*, **2020**, 2,	3.9	13
148	Designing high-performance nighttime thermoradiative systems for harvesting energy from outer space. *Optics Letters*, **2020**, 45, 5929-5932	3	3
147	Particle simulation of plasmons. *Nanophotonics*, **2020**, 9, 3303-3313	6.3	4

146	Tunable band alignment in boron carbon nitride and blue phosphorene van der Waals heterostructure. *Nano Express*, **2020**, 1, 020021	2	0
145	Shortcut to adiabatic light transfer in waveguide couplers with a sign flip in the phase mismatch. *Journal Physics D: Applied Physics*, **2020**, 53, 035104	3	5
144	Imaging nodal knots in momentum space through topolectrical circuits. *Nature Communications*, **2020**, 11, 4385	17.4	17
143	Quantum Transport in Two-Dimensional WS with High-Efficiency Carrier Injection through Indium Alloy Contacts. *ACS Nano*, **2020**, 14, 13700-13708	16.7	7
142	Graphene-based thermionic-thermoradiative solar cells: Concept, efficiency limit, and optimum design. *Journal of Cleaner Production*, **2020**, 242, 118444	10.3	13
141	Microstructural Engineering of Cathode Materials for Advanced Zinc-Ion Aqueous Batteries. *Advanced Science*, **2020**, 8, 2002722	13.6	21
140	High-Concentration Niobium-Substituted WS Basal Domains with Reconfigured Electronic Band Structure for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 34862-34868	9.5	11
139	Theory of Thermionic Carrier Injection in Graphene/Organic Schottky Interface. *Frontiers in Materials*, **2019**, 6,	4	6
138	Effects of precursor pre-treatment on the vapor deposition of WS2 monolayers. *Nanoscale Advances*, **2019**, 1, 953-960	5.1	7
137	Nonlinear plasmonics of three-dimensional Dirac semimetals. *APL Photonics*, **2019**, 4, 034402	5.2	32
136	High Sensitivity Surface Plasmon Resonance Sensor Based on Two-Dimensional MXene and Transition Metal Dichalcogenide: A Theoretical Study. *Nanomaterials*, **2019**, 9,	5.4	65
135	Explicating the Sodium Storage Kinetics and Redox Mechanism of Highly Pseudocapacitive Binary Transition Metal Sulfide via Operando Techniques and Ab Initio Evaluation. *Small Methods*, **2019**, 3, 1900112	12.8	14
134	Rhenium disulfide nanosheets/carbon composite as novel anodes for high-rate and long lifespan sodium-ion batteries. *Nano Energy*, **2019**, 61, 626-636	17.1	29
133	Fast-neutron irradiation effects on monolayer MoS2. *Applied Physics Express*, **2019**, 12, 056001	2.4	3
132	Three-terminal heterojunction bipolar transistor solar cells with non-ideal effects: Efficiency limit and parametric optimum selection. *Energy Conversion and Management*, **2019**, 188, 112-119	10.6	9
131	Optical Refractive Index Sensors with Plasmonic and Photonic Structures: Promising and Inconvenient Truth. *Advanced Optical Materials*, **2019**, 7, 1801433	8.1	156
130	Surface Exciton Polaritons: A Promising Mechanism for Refractive-Index Sensing. *Physical Review Applied*, **2019**, 12,	4.3	13
129	Generalized High-Energy Thermionic Electron Injection at Graphene Interface. *Physical Review Applied*, **2019**, 12,	4.3	28

128	Design of metal contacts for monolayer Fe3GeTe2 based devices. *Applied Physics Letters*, **2019**, 115, 083105	3.4	11
127	Hybrid direct carbon fuel cell-thermoradiative systems for high-efficiency waste-heat recovery. *Energy Conversion and Management*, **2019**, 198, 111842	10.6	3
126	Graphene-Induced in Situ Growth of Monolayer and Bilayer 2D SiC Crystals Toward High-Temperature Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 39109-39115	9.5	7
125	In situ epitaxial engineering of graphene and h-BN lateral heterostructure with a tunable morphology comprising h-BN domains. *NPG Asia Materials*, **2019**, 11,	10.3	22
124	Optical Kerr effect and third harmonic generation in topological Dirac/Weyl semimetal. *Optics Express*, **2019**, 27, 38270-38280	3.3	11
123	Design of an InSb thermoradiative system for harvesting low-grade waste heat. *Optics Letters*, **2019**, 44, 3354-3357	3	9
122	Thermal-Assisted Vertical Electron Injections in Few-Layer Pyramidal-Structured MoS Crystals. *Journal of Physical Chemistry Letters*, **2019**, 10, 1292-1299	6.4	5
121	Design Multifunctional Catalytic Interface: Toward Regulation of Polysulfide and Li S Redox Conversion in Li-S Batteries. *Small*, **2019**, 15, e1906132	11	35
120	Janus PtSSe and graphene heterostructure with tunable Schottky barrier. *Applied Physics Letters*, **2019**, 115, 241601	3.4	40
119	$text{MoS}_2$-Based Highly Sensitive Near-Infrared Surface Plasmon Resonance Refractive Index Sensor. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-7	3.8	24
118	From Self-Assembly Hierarchical h-BN Patterns to Centimeter-Scale Uniform Monolayer h-BN Film. *Advanced Materials Interfaces*, **2019**, 6, 1801493	4.6	14
117	Two-dimensional transition metal dichalcogenides mediated long range surface plasmon resonance biosensors. *Journal Physics D: Applied Physics*, **2019**, 52, 065101	3	38
116	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 50-56	4.1	5
115	A new coupling mechanism between two graphene electron waveguides for ultrafast switching. *Semiconductor Science and Technology*, **2018**, 33, 035014	1.8	7
114	Bifunctional porous iron phosphide/carbon nanostructure enabled high-performance sodium-ion battery and hydrogen evolution reaction. *Energy Storage Materials*, **2018**, 15, 98-107	19.4	80
113	Thickness Dependence of Space-Charge-Limited Current in Spatially Disordered Organic Semiconductors. *IEEE Transactions on Electron Devices*, **2018**, 65, 3421-3429	2.9	20
112	Universal Scaling Laws in Schottky Heterostructures Based on Two-Dimensional Materials. *Physical Review Letters*, **2018**, 121, 056802	7.4	80
111	Tailoring NiO Nanostructured Arrays by Sulfate Anions for Sodium-Ion Batteries. *Small*, **2018**, 14, e1800898	11	29

110	Adiabatic control of surface plasmon-polaritons in a 3-layers graphene curved configuration. *Carbon*, **2018**, 127, 187-192	10.4	18
109	Fractional Fresnel coefficients for optical absorption in femtosecond laser-induced rough metal surfaces. *Journal of Applied Physics*, **2018**, 124, 163101	2.5	7
108	Fractional Fowler–Nordheim Law for Field Emission From Rough Surface With Nonparabolic Energy Dispersion. *IEEE Transactions on Electron Devices*, **2018**, 65, 2089-2095	2.9	37
107	Asymmetric Schottky Contacts in Bilayer MoS2 Field Effect Transistors. *Advanced Functional Materials*, **2018**, 28, 1800657	15.6	119
106	Pushing the limits of CMOS optical parametric amplifiers with USRN:SiN above the two-photon absorption edge. *Nature Communications*, **2017**, 8, 13878	17.4	92
105	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. *Advanced Functional Materials*, **2017**, 27, 1605896	15.6	31
104	Thermionic Energy Conversion Based on Graphene van der Waals Heterostructures. *Scientific Reports*, **2017**, 7, 46211	4.9	46
103	Electrical transport and persistent photoconductivity in monolayer MoS phototransistors. *Nanotechnology*, **2017**, 28, 214002	3.4	133
102	Cubic-shaped WS2 nanopetals on a Prussian blue derived nitrogen-doped carbon nanoporous framework for high performance sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10406-10415	12	77
101	Enhanced stability of filament-type resistive switching by interface engineering. *Scientific Reports*, **2017**, 7, 43664	4.9	44
100	100 years of the physics of diodes. *Applied Physics Reviews*, **2017**, 4, 011304	17.3	104
99	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. *ACS Nano*, **2017**, 11, 430-437	16.7	153
98	Cross-plane Thermoelectric and Thermionic Transport across Au/h-BN/Graphene Heterostructures. *Scientific Reports*, **2017**, 7, 14148	4.9	11
97	All-optical control on a graphene-on-silicon waveguide modulator. *Scientific Reports*, **2017**, 7, 12748	4.9	29
96	Valleytronics in merging Dirac cones: All-electric-controlled valley filter, valve, and universal reversible logic gate. *Physical Review B*, **2017**, 96,	3.3	62
95	Theoretical modeling of electron emission from graphene. *MRS Bulletin*, **2017**, 42, 505-510	3.2	43
94	Relativistic space-charge-limited current for massive Dirac fermions. *Physical Review B*, **2017**, 95,	3.3	14
93	Electronic Scattering of Graphene Plasmons in the Terahertz Nonlinear Regime. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-6	3.8	13

92	Transition radiation from graphene plasmons by a bunch beam in the terahertz regime. *Optics Express*, **2017**, 25, 20477-20485	3.3	13
91	Nonlocal transistor based on pure crossed Andreev reflection in a EuO-graphene/superconductor hybrid structure. *Physical Review B*, **2016**, 93,	3.3	25
90	WS2□D graphene nano-architecture networks for high performance anode materials of lithium ion batteries. *RSC Advances*, **2016**, 6, 107768-107775	3.7	24
89	Electromagnetic sinc Schell-model pulses in dispersive media. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 794-797	2.3	8
88	Guided Modes in a Double-Well Asymmetric Potential of a Graphene Waveguide. *Electronics (Switzerland)*, **2016**, 5, 87	2.6	2
87	Fractional-dimensional Child-Langmuir law for a rough cathode. *Physics of Plasmas*, **2016**, 23, 072118	2.1	31
86	Ultrafast, broadband, and configurable midinfrared all-optical switching in nonlinear graphene plasmonic waveguides. *APL Photonics*, **2016**, 1, 046101	5.2	32
85	A modified Schottky model for graphene-semiconductor (3D/2D) contact: A combined theoretical and experimental study **2016**,		17
84	Current-Temperature Scaling for a Schottky Interface with Nonparabolic Energy Dispersion. *Physical Review Applied*, **2016**, 6,	4.3	42
83	2D Black Phosphorus/SrTiO3 -Based Programmable Photoconductive Switch. *Advanced Materials*, **2016**, 28, 7768-73	24	44
82	Guided modes in a triple-well graphene waveguide: analogy of five-layer optical waveguide. *Journal of Optics (United Kingdom)*, **2015**, 17, 035005	1.7	4
81	Space charge limited current emission for a sharp tip. *Physics of Plasmas*, **2015**, 22, 052106	2.1	28
80	Efficiencies of Aloof-Scattered Electron Beam Excitation of Metal and Graphene Plasmons. *IEEE Transactions on Plasma Science*, **2015**, 43, 951-956	1.3	10
79	Non-uniform space charge limited current injection into a nano contact solid. *Scientific Reports*, **2015**, 5, 9173	4.9	11
78	Wavelength selective mode division multiplexing on a silicon chip. *Optics Express*, **2015**, 23, 8095-103	3.3	33
77	Enhancement of coherent Smith-Purcell radiation at terahertz frequency by optimized grating, prebunched beams, and open cavity. *Physical Review Special Topics: Accelerators and Beams*, **2015**, 18,		23
76	Engineering the Nonlinearity and Dispersion of Graphene Hybrid Plasmonic Waveguides **2015**,		2
75	Maximal charge injection of consecutive electron pulses with uniform temporal pulse separation. *Physics of Plasmas*, **2015**, 22, 084504	2.1	8

74	Highly Efficient Midinfrared On-Chip Electrical Generation of Graphene Plasmons by Inelastic Electron Tunneling Excitation. *Physical Review Applied*, **2015**, 3,	4.3	15
73	Electron Thermionic Emission from Graphene and a Thermionic Energy Converter. *Physical Review Applied*, **2015**, 3,	4.3	120
72	Maximal charge injection of a uniform separated electron pulse train in a drift space. *Physical Review Special Topics: Accelerators and Beams*, **2015**, 18,		2
71	Chiral Tunneling-Assisted Over-Barrier Electron Emission From Graphene. *IEEE Transactions on Electron Devices*, **2014**, 61, 1764-1770	2.9	39
70	Two-dimensional relativistic space charge limited current flow in the drift space. *Physics of Plasmas*, **2014**, 21, 043101	2.1	6
69	Waveguide engineering of graphene^{R} nonlinearity. *Applied Physics Letters*, **2014**, 105, 111110	3.4	35
68	Single-Crystal Pd and its Alloy Nanowires for Plasmon Propagation and Highly Sensitive Hydrogen Detection. *Advanced Optical Materials*, **2014**, 2, 189-196	8.1	40
67	Transition from ultrafast laser photo-electron emission to space-charge-limited current in a 1D gap. *Journal Physics D: Applied Physics*, **2014**, 47, 125502	3	3
66	Electro-optical graphene plasmonic logic gates. *Optics Letters*, **2014**, 39, 1629-32	3	59
65	Novel scaling laws for the Langmuir-Blodgett solutions in cylindrical and spherical diodes. *Physical Review Letters*, **2013**, 110, 265007	7.4	43
64	Time-dependent quantum tunneling and nonequilibrium heating model for the generalized Einstein photoelectric effect. *Physical Review B*, **2013**, 88,	3.3	19
63	Over-barrier side-band electron emission from graphene with a time-oscillating potential. *Carbon*, **2013**, 61, 294-298	10.4	42
62	Generalized model for ultrafast laser induced electron emission from a metal tip^{a}). *Physics of Plasmas*, **2013**, 20, 056705	2.1	12
61	Mid-infrared active graphene nanoribbon plasmonic waveguide devices. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 3111	1.7	48
60	Ultracompact vanadium dioxide dual-mode plasmonic waveguide electroabsorption modulator. *Nanophotonics*, **2013**, 2, 13-19	6.3	35
59	Inverse bremsstrahlung in relativistic quantum plasmas. *Physical Review E*, **2013**, 87, 063112	2.4	5
58	Motion-induced radiation from electrons moving in Maxwell^{R} fish-eye. *Scientific Reports*, **2013**, 3, 3065	4.9	5
57	Analysis of nonuniform field emission from a sharp tip emitter of Lorentzian or hyperboloid shape. *Journal of Applied Physics*, **2013**, 113, 144902	2.5	13

56	Onset of space charge limited current for field emission from a single sharp tip. *Physics of Plasmas*, **2012**, 19, 033107	2.1	21
55	Vandium dioxide active plasmonics **2012**,		1
54	Ultrafast laser-induced electron emission from multiphoton to optical tunneling. *Physical Review B*, **2012**, 86,	3.3	24
53	Plasmonic coupled-cavity system for enhancement of surface plasmon localization in plasmonic detectors. *Nanotechnology*, **2012**, 23, 275201	3.4	6
52	Ang Replies:. *Physical Review Letters*, **2012**, 109,	7.4	4
51	Klein tunnelling model of low energy electron field emission from single-layer graphene sheet. *Applied Physics Letters*, **2011**, 99, 013112	3.4	29
50	Design of a monopole-antenna-based resonant nanocavity for detection of optical power from hybrid plasmonic waveguides. *Optics Express*, **2011**, 19, 17075-85	3.3	20
49	Analytical re-derivation of space charge limited current in solids using capacitor model. *Journal of Applied Physics*, **2011**, 110, 094514	2.5	9
48	Child□angmuir law in the Coulomb blockade regime. *Applied Physics Letters*, **2011**, 98, 051502	3.4	33
47	Two-dimensional electromagnetic Child□angmuir law of a short-pulse electron flow. *Physics of Plasmas*, **2011**, 18, 023105	2.1	11
46	Shot noise reduction of space charge limited electron injection through a Schottky contact for a GaN diode. *Physical Review B*, **2010**, 81,	3.3	3
45	Space charge limited current in a gap combined of free space and solid. *Applied Physics Letters*, **2010**, 96, 183501	3.4	11
44	A Compact Model for Undoped Silicon-Nanowire MOSFETs With Schottky-Barrier Source/Drain. *IEEE Transactions on Electron Devices*, **2009**, 56, 1100-1109	2.9	26
43	Two-dimensional model of space charge limited electron injection into a diode with Schottky contact. *Journal Physics D: Applied Physics*, **2009**, 42, 055504	3	15
42	Quantum model of space-charge-limited field emission in a nanogap. *Nanotechnology*, **2008**, 19, 235402	3.4	23
41	A compact model for undoped symmetric double-gate MOSFETs with Schottky-barrier source/drain **2008**,		8
40	Nonequilibrium model of ultrafast laser-induced electron photofield emission from a dc-biased metallic surface. *Physical Review B*, **2008**, 78,	3.3	35
39	Multi-purpose ionization gas sensing devices using carbon nanofibers on plastic substrates. *Diamond and Related Materials*, **2008**, 17, 1959-1962	3.5	5

38	Field emission from a single carbon nanofiber at sub 100nm gap. *Applied Physics Letters*, **2008**, 93, 023134	3.4	21
37	Theory of shot noise in high-current space-charge-limited field emission. *Physical Review B*, **2008**, 77,	3.3	7
36	Low temperature refrigeration by using thermal-field electron emission in a coaxial cylindrical diode. *Journal of Applied Physics*, **2008**, 104, 084506	2.5	2
35	Short-pulse space-charge-limited electron flows in a drift space. *Physics of Plasmas*, **2008**, 15, 063105	2.1	5
34	A rigorous surface-potential-based I-V model for undoped cylindrical nanowire MOSFETs **2007**,		6
33	Multipactor discharge in a dielectric-loaded accelerating structure. *Physics of Plasmas*, **2007**, 14, 013105	2.1	36
32	Reliable and flexible carbon-nanofiber-based all-plastic field emission devices. *Applied Physics Letters*, **2007**, 90, 143103	3.4	43
31	Two-dimensional analytical Mott-Gurney law for a trap-filled solid. *Applied Physics Letters*, **2007**, 90, 153505	3.4	71
30	Ultrashort-pulse child-langmuir law in the quantum and relativistic regimes. *Physical Review Letters*, **2007**, 98, 164802	7.4	136
29	Two-dimensional space-charge-limited flows in a crossed-field gap. *Applied Physics Letters*, **2007**, 90, 141503	3.4	7
28	Complex photonic band diagrams for finite-size photonic crystals with arbitrary defects. *Journal of Applied Physics*, **2007**, 101, 053101	2.5	4
27	Transition of field emission to space-charge-limited emission in a nanogap. *Applied Physics Letters*, **2006**, 89, 183107	3.4	24
26	Space-charge-limited flows in the quantum regimea). *Physics of Plasmas*, **2006**, 13, 056701	2.1	102
25	Multidimensional short-pulse space-charge-limited flow. *Physics of Plasmas*, **2006**, 13, 063102	2.1	12
24	Low temperature refrigeration by electron emission in a crossed-field gap. *Applied Physics Letters*, **2006**, 89, 133503	3.4	9
23	Band gap optimization of finite photonic structures using apodization method. *Journal of Applied Physics*, **2006**, 100, 084309	2.5	3
22	Tunable high-Q photonic-bandgap Fabry-Perot resonator. *Journal of the Optical Society of America B: Optical Physics*, **2005**, 22, 1770	1.7	19
21	Three-dimensional Child□langmuir law for uniform hot electron emission. *Physics of Plasmas*, **2005**, 12, 053107	2.1	48

20	Space-charge-limited bipolar flow in a nano-gap. *Applied Physics Letters*, **2005**, 87, 193112	3.4	8
19	SIMULATION OF HIGH CURRENT FIELD EMISSION FROM VERTICALLY WELL-ALIGNED METALLIC CARBON NANOTUBES. *International Journal of Nanoscience*, **2004**, 03, 677-684	0.6	2
18	Simple derivation of quantum scaling in Child-Langmuir law. *IEEE Transactions on Plasma Science*, **2004**, 32, 410-412	1.3	63
17	Experimental and theoretical analysis of argon plasma-enhanced quantum-well intermixing. *IEEE Journal of Quantum Electronics*, **2004**, 40, 166-174	2	25
16	Large blueshift in InGaAs/InGaAsP laser structure using inductively coupled argon plasma-enhanced quantum well intermixing. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, L1		14
15	New scaling of child-langmuir law in the quantum regime. *Physical Review Letters*, **2003**, 91, 208303	7.4	163
14	Limiting current density in a crossed-field nanogap. *Physical Review E*, **2001**, 64, 017501	2.4	15
13	Effects of an external magnetic field, and of oblique radio-frequency electric fields on multipactor discharge on a dielectric. *Physics of Plasmas*, **2000**, 7, 750-757	2.1	79
12	Resonant absorption of a short-pulse laser in a doped dielectric. *Applied Physics Letters*, **1999**, 74, 2912-2914	3.4	1
11	Electron beam ablation of materials. *Journal of Applied Physics*, **1999**, 86, 7129-7138	2.5	31
10	Science and applications of energy beam ablation. *IEEE Transactions on Plasma Science*, **1999**, 27, 150-158	1.3	14
9	Power deposited on a dielectric by multipactor. *IEEE Transactions on Plasma Science*, **1998**, 26, 290-295	1.3	96
8	Electron beam ablation versus laser ablation: plasma plume diagnostic studies. *Applied Surface Science*, **1998**, 127-129, 947-952	6.7	20
7	Multipactor discharge on metals and dielectrics: Historical review and recent theories. *Physics of Plasmas*, **1998**, 5, 2120-2126	2.1	236
6	Surface instability of multipulse laser ablation on a metallic target. *Journal of Applied Physics*, **1998**, 83, 4466-4471	2.5	43
5	Dynamics of electron beam ablation of silicon dioxide measured by dye laser resonance absorption photography. *Applied Physics Letters*, **1998**, 73, 2576-2578	3.4	6
4	Absolute instability in a traveling wave tube model. *Physics of Plasmas*, **1998**, 5, 4408-4410	2.1	9
3	Analysis of laser absorption on a rough metal surface. *Applied Physics Letters*, **1997**, 70, 696-698	3.4	74

2	Quantum well intermixing using argon plasma generated in a reactive-ion etching system on InGaAs/InGaAsP laser structures		2
1	Cubic Spinel XIn2S4 (X = Fe, Co, Mn): A New Type of Anode Material for Superfast and Ultrastable Na-Ion Storage. *Advanced Energy Materials*,2102137	21.8	10