Lay Kee Ang

List of Publications by Citations

Source: https://exaly.com/author-pdf/8527062/lay-kee-ang-publications-by-citations.pdf

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
181	Multipactor discharge on metals and dielectrics: Historical review and recent theories. <i>Physics of Plasmas</i> , 1998 , 5, 2120-2126	2.1	236
180	New scaling of child-langmuir law in the quantum regime. <i>Physical Review Letters</i> , 2003 , 91, 208303	7.4	163
179	Optical Refractive Index Sensors with Plasmonic and Photonic Structures: Promising and Inconvenient Truth. <i>Advanced Optical Materials</i> , 2019 , 7, 1801433	8.1	156
178	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. <i>ACS Nano</i> , 2017 , 11, 430-437	16.7	153
177	Ultrashort-pulse child-langmuir law in the quantum and relativistic regimes. <i>Physical Review Letters</i> , 2007 , 98, 164802	7.4	136
176	Electrical transport and persistent photoconductivity in monolayer MoS phototransistors. <i>Nanotechnology</i> , 2017 , 28, 214002	3.4	133
175	Electron Thermionic Emission from Graphene and a Thermionic Energy Converter. <i>Physical Review Applied</i> , 2015 , 3,	4.3	120
174	Asymmetric Schottky Contacts in Bilayer MoS2 Field Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800657	15.6	119
173	100 years of the physics of diodes. <i>Applied Physics Reviews</i> , 2017 , 4, 011304	17.3	104
172	Space-charge-limited flows in the quantum regimea). <i>Physics of Plasmas</i> , 2006 , 13, 056701	2.1	102
171	Power deposited on a dielectric by multipactor. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 290-295	1.3	96
170	Pushing the limits of CMOS optical parametric amplifiers with USRN:SiN above the two-photon absorption edge. <i>Nature Communications</i> , 2017 , 8, 13878	17.4	92
169	Bifunctional porous iron phosphide/carbon nanostructure enabled high-performance sodium-ion battery and hydrogen evolution reaction. <i>Energy Storage Materials</i> , 2018 , 15, 98-107	19.4	80
168	Universal Scaling Laws in Schottky Heterostructures Based on Two-Dimensional Materials. <i>Physical Review Letters</i> , 2018 , 121, 056802	7.4	8o
167	Effects of an external magnetic field, and of oblique radio-frequency electric fields on multipactor discharge on a dielectric. <i>Physics of Plasmas</i> , 2000 , 7, 750-757	2.1	79
166	Cubic-shaped WS2 nanopetals on a Prussian blue derived nitrogen-doped carbon nanoporous framework for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10406	- 1 0415	; 77
165	Analysis of laser absorption on a rough metal surface. <i>Applied Physics Letters</i> , 1997 , 70, 696-698	3.4	74

164	Two-dimensional analytical Mott-Gurney law for a trap-filled solid. <i>Applied Physics Letters</i> , 2007 , 90, 15	35,045	71	
163	High Sensitivity Surface Plasmon Resonance Sensor Based on Two-Dimensional MXene and Transition Metal Dichalcogenide: A Theoretical Study. <i>Nanomaterials</i> , 2019 , 9,	5.4	65	
162	Simple derivation of quantum scaling in Child-Langmuir law. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 410-412	1.3	63	
161	Valleytronics in merging Dirac cones: All-electric-controlled valley filter, valve, and universal reversible logic gate. <i>Physical Review B</i> , 2017 , 96,	3.3	62	
160	Electro-optical graphene plasmonic logic gates. <i>Optics Letters</i> , 2014 , 39, 1629-32	3	59	
159	Two-dimensional van der Waals electrical contact to monolayer MoSi2N4. <i>Applied Physics Letters</i> , 2021 , 118, 013106	3.4	54	
158	Mid-infrared active graphene nanoribbon plasmonic waveguide devices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 3111	1.7	48	
157	Three-dimensional Child🛘angmuir law for uniform hot electron emission. <i>Physics of Plasmas</i> , 2005 , 12, 053107	2.1	48	
156	Thermionic Energy Conversion Based on Graphene van der Waals Heterostructures. <i>Scientific Reports</i> , 2017 , 7, 46211	4.9	46	
155	Spacetharge limited current in nanodiodes: Ballistic, collisional, and dynamical effects. <i>Journal of Applied Physics</i> , 2021 , 129, 100902	2.5	45	
154	Enhanced stability of filament-type resistive switching by interface engineering. <i>Scientific Reports</i> , 2017 , 7, 43664	4.9	44	
153	2D Black Phosphorus/SrTiO3 -Based Programmable Photoconductive Switch. <i>Advanced Materials</i> , 2016 , 28, 7768-73	24	44	
152	Novel scaling laws for the Langmuir-Blodgett solutions in cylindrical and spherical diodes. <i>Physical Review Letters</i> , 2013 , 110, 265007	7.4	43	
151	Theoretical modeling of electron emission from graphene. MRS Bulletin, 2017, 42, 505-510	3.2	43	
150	Reliable and flexible carbon-nanofiber-based all-plastic field emission devices. <i>Applied Physics Letters</i> , 2007 , 90, 143103	3.4	43	
149	Surface instability of multipulse laser ablation on a metallic target. <i>Journal of Applied Physics</i> , 1998 , 83, 4466-4471	2.5	43	
148	Over-barrier side-band electron emission from graphene with a time-oscillating potential. <i>Carbon</i> , 2013 , 61, 294-298	10.4	42	
147	Current-Temperature Scaling for a Schottky Interface with Nonparabolic Energy Dispersion. <i>Physical Review Applied</i> , 2016 , 6,	4.3	42	

146	Single-Crystal Pd and its Alloy Nanowires for Plasmon Propagation and Highly Sensitive Hydrogen Detection. <i>Advanced Optical Materials</i> , 2014 , 2, 189-196	8.1	40
145	Janus PtSSe and graphene heterostructure with tunable Schottky barrier. <i>Applied Physics Letters</i> , 2019 , 115, 241601	3.4	40
144	Multi-level information fusion to alleviate network congestion. <i>Information Fusion</i> , 2020 , 63, 248-255	16.7	39
143	Chiral Tunneling-Assisted Over-Barrier Electron Emission From Graphene. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1764-1770	2.9	39
142	Two-dimensional transition metal dichalcogenides mediated long range surface plasmon resonance biosensors. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 065101	3	38
141	Fractional FowlerNordheim Law for Field Emission From Rough Surface With Nonparabolic Energy Dispersion. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2089-2095	2.9	37
140	Multipactor discharge in a dielectric-loaded accelerating structure. <i>Physics of Plasmas</i> , 2007 , 14, 013105	2.1	36
139	Waveguide engineering of grapheneß nonlinearity. Applied Physics Letters, 2014, 105, 111110	3.4	35
138	Ultracompact vanadium dioxide dual-mode plasmonic waveguide electroabsorption modulator. <i>Nanophotonics</i> , 2013 , 2, 13-19	6.3	35
137	Nonequilibrium model of ultrafast laser-induced electron photofield emission from a dc-biased metallic surface. <i>Physical Review B</i> , 2008 , 78,	3.3	35
136	Design Multifunctional Catalytic Interface: Toward Regulation of Polysulfide and Li S Redox Conversion in Li-S Batteries. <i>Small</i> , 2019 , 15, e1906132	11	35
135	Wavelength selective mode division multiplexing on a silicon chip. <i>Optics Express</i> , 2015 , 23, 8095-103	3.3	33
134	Child 🛘 angmuir law in the Coulomb blockade regime. Applied Physics Letters, 2011, 98, 051502	3.4	33
133	Nonlinear plasmonics of three-dimensional Dirac semimetals. APL Photonics, 2019, 4, 034402	5.2	32
132	Ultrafast, broadband, and configurable midinfrared all-optical switching in nonlinear graphene plasmonic waveguides. <i>APL Photonics</i> , 2016 , 1, 046101	5.2	32
131	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. <i>Advanced Functional Materials</i> , 2017 , 27, 1605896	15.6	31
130	Electron beam ablation of materials. <i>Journal of Applied Physics</i> , 1999 , 86, 7129-7138	2.5	31
129	Fractional-dimensional Child-Langmuir law for a rough cathode. <i>Physics of Plasmas</i> , 2016 , 23, 072118	2.1	31

128	All-optical control on a graphene-on-silicon waveguide modulator. Scientific Reports, 2017, 7, 12748	4.9	29	
127	Rhenium disulfide nanosheets/carbon composite as novel anodes for high-rate and long lifespan sodium-ion batteries. <i>Nano Energy</i> , 2019 , 61, 626-636	17.1	29	
126	Tailoring NiO Nanostructured Arrays by Sulfate Anions for Sodium-Ion Batteries. Small, 2018, 14, e180	0898	29	
125	Klein tunnelling model of low energy electron field emission from single-layer graphene sheet. <i>Applied Physics Letters</i> , 2011 , 99, 013112	3.4	29	
124	Space charge limited current emission for a sharp tip. <i>Physics of Plasmas</i> , 2015 , 22, 052106	2.1	28	
123	Generalized High-Energy Thermionic Electron Injection at Graphene Interface. <i>Physical Review Applied</i> , 2019 , 12,	4.3	28	
122	Semiconductor-to-metal transition in bilayer MoSi2N4 and WSi2N4 with strain and electric field. <i>Applied Physics Letters</i> , 2021 , 118, 113102	3.4	27	
121	A Compact Model for Undoped Silicon-Nanowire MOSFETs With Schottky-Barrier Source/Drain. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 1100-1109	2.9	26	
120	Nonlocal transistor based on pure crossed Andreev reflection in a EuO-graphene/superconductor hybrid structure. <i>Physical Review B</i> , 2016 , 93,	3.3	25	
119	Experimental and theoretical analysis of argon plasma-enhanced quantum-well intermixing. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 166-174	2	25	
118	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi2N4 and WSi2N4 monolayers. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	25	
117	WS2BD graphene nano-architecture networks for high performance anode materials of lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 107768-107775	3.7	24	
116	Ultrafast laser-induced electron emission from multiphoton to optical tunneling. <i>Physical Review B</i> , 2012 , 86,	3.3	24	
115	Transition of field emission to space-charge-limited emission in a nanogap. <i>Applied Physics Letters</i> , 2006 , 89, 183107	3.4	24	
114	\$text{MoS}_2\$-Based Highly Sensitive Near-Infrared Surface Plasmon Resonance Refractive Index Sensor. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-7	3.8	24	
113	ZnSe Modified Zinc Metal Anodes: Toward Enhanced Zincophilicity and Ionic Diffusion. <i>Small</i> , 2021 , 17, e2101728	11	24	
112	Enhancement of coherent Smith-Purcell radiation at terahertz frequency by optimized grating, prebunched beams, and open cavity. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015 , 18,		23	
111	Super Kinetically Pseudocapacitive MnCo2S4 Nanourchins toward High-Rate and Highly Stable Sodium-Ion Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909702	15.6	23	

110	Quantum model of space-charge-limited field emission in a nanogap. <i>Nanotechnology</i> , 2008 , 19, 235402	2 3.4	23
109	In situ epitaxial engineering of graphene and h-BN lateral heterostructure with a tunable morphology comprising h-BN domains. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	22
108	Onset of space charge limited current for field emission from a single sharp tip. <i>Physics of Plasmas</i> , 2012 , 19, 033107	2.1	21
107	Field emission from a single carbon nanofiber at sub 100nm gap. <i>Applied Physics Letters</i> , 2008 , 93, 0231	3 <u>3</u> .4	21
106	Microstructural Engineering of Cathode Materials for Advanced Zinc-Ion Aqueous Batteries. <i>Advanced Science</i> , 2020 , 8, 2002722	13.6	21
105	Thickness Dependence of Space-Charge-Limited Current in Spatially Disordered Organic Semiconductors. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3421-3429	2.9	20
104	Design of a monopole-antenna-based resonant nanocavity for detection of optical power from hybrid plasmonic waveguides. <i>Optics Express</i> , 2011 , 19, 17075-85	3.3	20
103	Electron beam ablation versus laser ablation: plasma plume diagnostic studies. <i>Applied Surface Science</i> , 1998 , 127-129, 947-952	6.7	20
102	Time-dependent quantum tunneling and nonequilibrium heating model for the generalized Einstein photoelectric effect. <i>Physical Review B</i> , 2013 , 88,	3.3	19
101	Tunable high-Q photonic-bandgap Fabry-Perot resonator. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1770	1.7	19
100	Physics of electron emission and injection in two-dimensional materials: Theory and simulation. <i>Informal</i> Materilly, 2021 , 3, 502-535	23.1	19
99	Morphological and Electronic Dual Regulation of Cobalt-Nickel Bimetal Phosphide Heterostructures Inducing High Water-Splitting Performance. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3911-3919	6.4	18
98	Adiabatic control of surface plasmon-polaritons in a 3-layers graphene curved configuration. <i>Carbon</i> , 2018 , 127, 187-192	10.4	18
97	Reducing Contact Resistance in Two-Dimensional-Material-Based Electrical Contacts by Roughness Engineering. <i>Physical Review Applied</i> , 2020 , 13,	4.3	17
96	Imaging nodal knots in momentum space through topolectrical circuits. <i>Nature Communications</i> , 2020 , 11, 4385	17.4	17
95	A modified Schottky model for graphene-semiconductor (3D/2D) contact: A combined theoretical and experimental study 2016 ,		17
94	Highly Efficient Midinfrared On-Chip Electrical Generation of Graphene Plasmons by Inelastic Electron Tunneling Excitation. <i>Physical Review Applied</i> , 2015 , 3,	4.3	15
93	Two-dimensional model of space charge limited electron injection into a diode with Schottky contact. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055504	3	15

92	Limiting current density in a crossed-field nanogap. <i>Physical Review E</i> , 2001 , 64, 017501	2.4	15
91	Explicating the Sodium Storage Kinetics and Redox Mechanism of Highly Pseudocapacitive Binary Transition Metal Sulfide via Operando Techniques and Ab Initio Evaluation. <i>Small Methods</i> , 2019 , 3, 190	0172	14
90	Relativistic space-charge-limited current for massive Dirac fermions. <i>Physical Review B</i> , 2017 , 95,	3.3	14
89	Large blueshift in InGaAs/InGaAsP laser structure using inductively coupled argon plasma-enhanced quantum well intermixing. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, L1		14
88	Science and applications of energy beam ablation. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 150-15	58.3	14
87	From Self-Assembly Hierarchical h-BN Patterns to Centimeter-Scale Uniform Monolayer h-BN Film. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801493	4.6	14
86	Surface Exciton Polaritons: A Promising Mechanism for Refractive-Index Sensing. <i>Physical Review Applied</i> , 2019 , 12,	4.3	13
85	Electronic Scattering of Graphene Plasmons in the Terahertz Nonlinear Regime. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-6	3.8	13
84	Transition radiation from graphene plasmons by a bunch beam in the terahertz regime. <i>Optics Express</i> , 2017 , 25, 20477-20485	3.3	13
83	Analysis of nonuniform field emission from a sharp tip emitter of Lorentzian or hyperboloid shape. <i>Journal of Applied Physics</i> , 2013 , 113, 144902	2.5	13
82	Efficient generation of extreme terahertz harmonics in three-dimensional Dirac semimetals. <i>Physical Review Research</i> , 2020 , 2,	3.9	13
81	Graphene-based thermionic-thermoradiative solar cells: Concept, efficiency limit, and optimum design. <i>Journal of Cleaner Production</i> , 2020 , 242, 118444	10.3	13
80	Plasmon-Enhanced Resonant Photoemission Using Atomically Thick Dielectric Coatings. <i>ACS Nano</i> , 2020 , 14, 8806-8815	16.7	12
79	Generalized model for ultrafast laser induced electron emission from a metal tipa). <i>Physics of Plasmas</i> , 2013 , 20, 056705	2.1	12
78	Multidimensional short-pulse space-charge-limited flow. <i>Physics of Plasmas</i> , 2006 , 13, 063102	2.1	12
77	Cross-plane Thermoelectric and Thermionic Transport across Au/h-BN/Graphene Heterostructures. <i>Scientific Reports</i> , 2017 , 7, 14148	4.9	11
76	High-Concentration Niobium-Substituted WS Basal Domains with Reconfigured Electronic Band Structure for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Domains </i>	388 ₂	11
75	Non-uniform space charge limited current injection into a nano contact solid. <i>Scientific Reports</i> , 2015 , 5, 9173	4.9	11

74	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
73	Design of metal contacts for monolayer Fe3GeTe2 based devices. <i>Applied Physics Letters</i> , 2019 , 115, 08	3 <u>1.</u> 45	11
72	Space charge limited current in a gap combined of free space and solid. <i>Applied Physics Letters</i> , 2010 , 96, 183501	3.4	11
71	Two-dimensional electromagnetic Child🏻 angmuir law of a short-pulse electron flow. <i>Physics of Plasmas</i> , 2011 , 18, 023105	2.1	11
70	Optical Kerr effect and third harmonic generation in topological Dirac/Weyl semimetal. <i>Optics Express</i> , 2019 , 27, 38270-38280	3.3	11
69	Efficiencies of Aloof-Scattered Electron Beam Excitation of Metal and Graphene Plasmons. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 951-956	1.3	10
68	Interface engineering by atomically thin layer tungsten disulfide catalyst for high performance Liß battery. <i>Materials Today Energy</i> , 2020 , 16, 100380	7	10
67	Cubic Spinel XIn2S4 (X = Fe, Co, Mn): A New Type of Anode Material for Superfast and Ultrastable Na-Ion Storage. <i>Advanced Energy Materials</i> ,2102137	21.8	10
66	Three-terminal heterojunction bipolar transistor solar cells with non-ideal effects: Efficiency limit and parametric optimum selection. <i>Energy Conversion and Management</i> , 2019 , 188, 112-119	10.6	9
65	Analytical re-derivation of space charge limited current in solids using capacitor model. <i>Journal of Applied Physics</i> , 2011 , 110, 094514	2.5	9
64	Low temperature refrigeration by electron emission in a crossed-field gap. <i>Applied Physics Letters</i> , 2006 , 89, 133503	3.4	9
63	Absolute instability in a traveling wave tube model. <i>Physics of Plasmas</i> , 1998 , 5, 4408-4410	2.1	9
62	Design of an InSb thermoradiative system for harvesting low-grade waste heat. <i>Optics Letters</i> , 2019 , 44, 3354-3357	3	9
61	Superior and tunable gas sensing properties of Janus PtSSe monolayer. <i>Nano Express</i> , 2020 , 1, 010042	2	8
60	Electromagnetic sinc Schell-model pulses in dispersive media. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 794-797	2.3	8
59	Maximal charge injection of consecutive electron pulses with uniform temporal pulse separation. <i>Physics of Plasmas</i> , 2015 , 22, 084504	2.1	8
58	A compact model for undoped symmetric double-gate MOSFETs with Schottky-barrier source/drain 2008 ,		8
57	Space-charge-limited bipolar flow in a nano-gap. <i>Applied Physics Letters</i> , 2005 , 87, 193112	3.4	8

(2013-2019)

56	Effects of precursor pre-treatment on the vapor deposition of WS2 monolayers. <i>Nanoscale Advances</i> , 2019 , 1, 953-960	5.1	7	
55	Generalized Scaling Law for Exciton Binding Energy in Two-Dimensional Materials. <i>Physical Review Applied</i> , 2020 , 13,	4.3	7	
54	A new coupling mechanism between two graphene electron waveguides for ultrafast switching. <i>Semiconductor Science and Technology</i> , 2018 , 33, 035014	1.8	7	
53	Graphene-Induced in Situ Growth of Monolayer and Bilayer 2D SiC Crystals Toward High-Temperature Electronics. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 39109-39115	9.5	7	
52	Theory of shot noise in high-current space-charge-limited field emission. <i>Physical Review B</i> , 2008 , 77,	3.3	7	
51	Two-dimensional space-charge-limited flows in a crossed-field gap. <i>Applied Physics Letters</i> , 2007 , 90, 141503	3.4	7	
50	Quantum Transport in Two-Dimensional WS with High-Efficiency Carrier Injection through Indium Alloy Contacts. <i>ACS Nano</i> , 2020 , 14, 13700-13708	16.7	7	
49	Designing few-layer graphene Schottky contact solar cells: Theoretical efficiency limits and parametric optimization. <i>Applied Physics Letters</i> , 2021 , 118, 053103	3.4	7	
48	Fractional Fresnel coefficients for optical absorption in femtosecond laser-induced rough metal surfaces. <i>Journal of Applied Physics</i> , 2018 , 124, 163101	2.5	7	
47	Theory of Thermionic Carrier Injection in Graphene/Organic Schottky Interface. <i>Frontiers in Materials</i> , 2019 , 6,	4	6	
46	Two-dimensional relativistic space charge limited current flow in the drift space. <i>Physics of Plasmas</i> , 2014 , 21, 043101	2.1	6	
45	Plasmonic coupled-cavity system for enhancement of surface plasmon localization in plasmonic detectors. <i>Nanotechnology</i> , 2012 , 23, 275201	3.4	6	
44	A rigorous surface-potential-based I-V model for undoped cylindrical nanowire MOSFETs 2007,		6	
43	Dynamics of electron beam ablation of silicon dioxide measured by dye laser resonance absorption photography. <i>Applied Physics Letters</i> , 1998 , 73, 2576-2578	3.4	6	
42	Strongly anisotropic field emission from highly aligned carbon nanotube films. <i>Journal of Applied Physics</i> , 2021 , 129, 125103	2.5	6	
41	Ultrasensitive Optical Temperature Transducers Based on Surface Plasmon Resonance Enhanced Composited Goos-Hfichen and Imbert-Fedorov Shifts. <i>IEEE Journal of Selected Topics in Quantum</i> <i>Electronics</i> , 2021 , 27, 1-8	3.8	6	
40	Dirac terahertz plasmonics in two and three dimensions. <i>Optics Communications</i> , 2020 , 462, 125319	2	5	
39	Inverse bremsstrahlung in relativistic quantum plasmas. <i>Physical Review E</i> , 2013 , 87, 063112	2.4	5	

38	Motion-induced radiation from electrons moving in Maxwellß fish-eye. Scientific Reports, 2013, 3, 3065	4.9	5
37	Multi-purpose ionization gas sensing devices using carbon nanofibers on plastic substrates. <i>Diamond and Related Materials</i> , 2008 , 17, 1959-1962	3.5	5
36	Short-pulse space-charge-limited electron flows in a drift space. <i>Physics of Plasmas</i> , 2008 , 15, 063105	2.1	5
35	Shortcut to adiabatic light transfer in waveguide couplers with a sign flip in the phase mismatch. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 035104	3	5
34	Thermal-Assisted Vertical Electron Injections in Few-Layer Pyramidal-Structured MoS Crystals. Journal of Physical Chemistry Letters, 2019 , 10, 1292-1299	6.4	5
33	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 50-56	4.1	5
32	Guided modes in a triple-well graphene waveguide: analogy of five-layer optical waveguide. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 035005	1.7	4
31	Electronic properties and spintronic applications of carbon phosphide nanoribbons. <i>Physical Review B</i> , 2020 , 101,	3.3	4
30	Ang Replies:. <i>Physical Review Letters</i> , 2012 , 109,	7.4	4
29	Complex photonic band diagrams for finite-size photonic crystals with arbitrary defects. <i>Journal of Applied Physics</i> , 2007 , 101, 053101	2.5	4
28	Plexcitonic strong coupling: unique features, applications, and challenges. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 203002	3	4
27	Particle simulation of plasmons. <i>Nanophotonics</i> , 2020 , 9, 3303-3313	6.3	4
26	Design of an all-day electrical power generator based on thermoradiative devices. <i>Science China Technological Sciences</i> , 2021 , 64, 2166	3.5	4
25	Tunable electronic properties and band alignments of MoSi2N4/GaN and MoSi2N4/ZnO van der Waals heterostructures. <i>Applied Physics Letters</i> , 2022 , 120, 103101	3.4	4
24	Fast-neutron irradiation effects on monolayer MoS2. Applied Physics Express, 2019, 12, 056001	2.4	3
23	Broadband strong optical dichroism in topological Dirac semimetals with Fermi velocity anisotropy. <i>Chinese Physics B</i> , 2020 , 29, 077802	1.2	3
22	Hybrid direct carbon fuel cell-thermoradiative systems for high-efficiency waste-heat recovery. Energy Conversion and Management, 2019 , 198, 111842	10.6	3
21	Transition from ultrafast laser photo-electron emission to space-charge-limited current in a 1D gap. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 125502	3	3

(2020-2010)

20	Shot noise reduction of space charge limited electron injection through a Schottky contact for a GaN diode. <i>Physical Review B</i> , 2010 , 81,	3.3	3
19	Band gap optimization of finite photonic structures using apodization method. <i>Journal of Applied Physics</i> , 2006 , 100, 084309	2.5	3
18	Giant tunneling magnetoresistance in atomically thin VSi2N4/MoSi2N4/VSi2N4 magnetic tunnel junction. <i>Applied Physics Letters</i> , 2022 , 120, 022401	3.4	3
17	Designing high-performance nighttime thermoradiative systems for harvesting energy from outer space. <i>Optics Letters</i> , 2020 , 45, 5929-5932	3	3
16	Angle-Insensitive Toroidal Metasurface for High-Efficiency Sensing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 1511-1517	4.1	3
15	Field Emission in Emerging Two-Dimensional and Topological Materials: A Perspective. <i>IEEE Transactions on Plasma Science</i> , 2022 , 1-15	1.3	3
14	Engineering the Nonlinearity and Dispersion of Graphene Hybrid Plasmonic Waveguides 2015,		2
13	Super-Andreev reflection and longitudinal shift of pseudospin-1 fermions. <i>Physical Review B</i> , 2020 , 101,	3.3	2
12	Low temperature refrigeration by using thermal-field electron emission in a coaxial cylindrical diode. <i>Journal of Applied Physics</i> , 2008 , 104, 084506	2.5	2
11	SIMULATION OF HIGH CURRENT FIELD EMISSION FROM VERTICALLY WELL-ALIGNED METALLIC CARBON NANOTUBES. <i>International Journal of Nanoscience</i> , 2004 , 03, 677-684	0.6	2
10	Quantum well intermixing using argon plasma generated in a reactive-ion etching system on InGaAs/InGaAsP laser structures		2
9	Maximal charge injection of a uniform separated electron pulse train in a drift space. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015 , 18,		2
8	Guided Modes in a Double-Well Asymmetric Potential of a Graphene Waveguide. <i>Electronics</i> (Switzerland), 2016 , 5, 87	2.6	2
7	Vandium dioxide active plasmonics 2012 ,		1
6	Resonant absorption of a short-pulse laser in a doped dielectric. <i>Applied Physics Letters</i> , 1999 , 74, 2912-	29,14	1
5	Deep learning-based design of broadband GHz complex and random metasurfaces. <i>APL Photonics</i> , 2021 , 6, 106101	5.2	1
4	Concentrated thermionic solar cells using graphene as the collector: theoretical efficiency limit and design rules. <i>Nanotechnology</i> , 2021 , 33,	3.4	1
3	Tunable band alignment in boron carbon nitride and blue phosphorene van der Waals heterostructure. <i>Nano Express</i> , 2020 , 1, 020021	2	O

High-Performance Thermionic Energy Converters Based on CdAsDAnode. *IEEE Transactions on Electron Devices*, **2022**, 1-7

2.9

Electron acceleration based on Bloch surface waves. Physics of Plasmas, 2022, 29, 063105

2.1