Chee Leong Tan

List of Publications by Year in descending order

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CHEELEONC TAN

#	Article	IF	CITATIONS
1	Emerging technologies for high performance infrared detectors. Nanophotonics, 2018, 7, 169-197.	6.0	203
2	Analysis of nano-grating-assisted light absorption enhancement in metal–semiconductor–metal photodetectors patterned using focused ion-beam lithography. Optics Communications, 2011, 284, 1694-1700.	2.1	55
3	Absorption enhancement of 980nm MSM photodetector with a plasmonic grating structure. Optics Communications, 2010, 283, 1763-1767.	2.1	42
4	Localized surface plasmon resonance with broadband ultralow reflectivity from metal nanoparticles on glass and silicon subwavelength structures. Optics Express, 2012, 20, 17448.	3.4	35
5	High-responsivity plasmonics-based GaAs metal-semiconductor-metal photodetectors. Applied Physics Letters, 2011, 99, .	3.3	26
6	Bi-SERS sensing and enhancement by Au-Ag bimetallic non-alloyed nanoparticles on amorphous and crystalline silicon substrate. Optics Express, 2015, 23, 6254.	3.4	26
7	Bimetallic non-alloyed NPs for improving the broadband optical absorption of thin amorphous silicon substrates. Nanoscale Research Letters, 2014, 9, 181.	5.7	25
8	Surface passivation and aging of InGaAs/InP heterojunction phototransistors. Journal of Applied Physics, 2017, 121, .	2.5	24
9	A highly sensitive, large area, and self-powered UV photodetector based on coalesced gallium nitride nanorods/graphene/silicon (111) heterostructure. Applied Physics Letters, 2020, 117, .	3.3	23
10	Plasmon-enhanced reduced graphene oxide photodetector with monometallic of Au and Ag nanoparticles at VIS–NIR region. Scientific Reports, 2021, 11, 19688.	3.3	21
11	Sensitivity Limit of Nanoscale Phototransistors. IEEE Electron Device Letters, 2017, 38, 1051-1054.	3.9	18
12	InGaAs/InP quantum well infrared photodetector integrated on Si substrate by Mo/Au metal-assisted wafer bonding. Optical Materials Express, 2018, 8, 413.	3.0	16
13	Optical absorption enhancement of hybrid-plasmonic-based metal-semiconductor-metal photodetector incorporating metal nanogratings and embedded metal nanoparticles. Optics Express, 2013, 21, 1713.	3.4	15
14	Metamorphic InP/InGaAs heterojunction bipolar transistors on GaAs substrate: DC and microwave performances. IEEE Transactions on Electron Devices, 2001, 48, 2671-2676.	3.0	12
15	Temperature dependence of avalanche multiplication in inp-based HBTs with InGaAs/InP composite collector: device characterization and physics model. IEEE Transactions on Electron Devices, 2003, 50, 2335-2343.	3.0	12
16	Open architecture time of flight 3D SWIR camera operating at 150 MHz modulation frequency. Optics Express, 2017, 25, 19291.	3.4	12
17	Metal Nano-Grating Optimization for Higher Responsivity Plasmonic-Based GaAs Metal-Semiconductor-Metal Photodetector. Journal of Lightwave Technology, 2013, 31, 1088-1092.	4.6	11
18	Spatial frequency spectrum of SPR-TFBG: A simple spectral analysis for in-situ refractometry. Optik, 2020, 219, 164970.	2.9	11

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#	Article	IF	CITATIONS
19	Impact of Nanograting Phase-Shift on Light Absorption Enhancement in Plasmonics-Based Metal-Semiconductor-Metal Photodetectors. Advances in Optical Technologies, 2011, 2011, 1-8.	0.8	9
20	Understanding of the excess channel noise in InAlAsâ^•InGaAsâ^•InP high electron mobility transistors in impact ionization regime. Applied Physics Letters, 2007, 90, 103503.	3.3	8
21	High-efficiency light-trapping effect using silver nanoparticles on thin amorphous silicon subwavelength structure. Optics Letters, 2013, 38, 4943.	3.3	8
22	AuAg bimetallic nonalloyed nanoparticles on a periodically nanostructured GaAs substrate for enhancing light trapping. Optics Letters, 2015, 40, 5798.	3.3	8
23	Engineering the gain-bandwidth product of phototransistor diodes. Applied Physics Letters, 2019, 115, 051104.	3.3	8
24	Absorption enhancement of MSM photodetector structure with a plasmonic double grating structure. , 2010, , .		7
25	InGaAs based heterojunction phototransistors: Viable solution for high-speed and low-noise short wave infrared imaging. Applied Physics Letters, 2019, 114, .	3.3	7
26	Investigation of drain current transient in BCB- and SiN-passivated Al0.25Ga0.75Asâ^•In0.2Ga0.8As pseudomorphic high electron mobility transistors. Applied Physics Letters, 2007, 90, 033501.	3.3	6
27	Design of high-sensitivity plasmonics-assisted GaAs metal-semiconductor-metal photodetectors. , 2010, , .		6
28	Metal-semiconductor-metal (MSM) photodetectors with plasmonic nanogratings*. Pure and Applied Chemistry, 2011, 83, 2107-2113.	1.9	6
29	Groove shape-dependent absorption enhancement of 850 nm MSM photodetectors with nano-gratings. , 2010, , .		5
30	Light trapping enhancement induced by bimetallic non-alloyed nanoparticles on a disordered subwavelength flexible thin film crystalline silicon substrate using metal-assisted chemical etching. Optics Letters, 2017, 42, 431.	3.3	5
31	On the thermal resistance of metamorphic and lattice-matched InP HBTs: a comparative study. , 0, , .		4
32	Light absorption enhancement in metal-semiconductor-metal photodetectors using plasmonic nanostructure gratings. , 2009, , .		4
33	Transmittance design of internal reflection triangular-groove grating at large dimension domain. Optics and Lasers in Engineering, 2013, 51, 402-409.	3.8	4
34	Heterojunction phototransistor for highly sensitive infrared detection. Proceedings of SPIE, 2017, , .	0.8	4
35	Broadband high responsivity large-area plasmonic-enhanced multilayer MoS ₂ on p-type silicon photodetector using Au nanostructures. Materials Research Express, 2019, 6, 105090.	1.6	4
36	Photocatalytic Application of Two-dimensional Materials-based Heterostructure Based on Molybdenum and Tungsten Disulfides and Gallium Nitride: A Density-Functional Theory Study. Materials Today Communications, 2020, 25, 101646.	1.9	4

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#	ARTICLE	IF	CITATIONS
37	Functionalized fiber-optic long-period grating with reduced cladding size for humidity sensing. Optical Engineering, 2019, 58, 1.	1.0	4
38	When shot-noise-limited photodetectors disobey Poisson statistics. Optics Letters, 2020, 45, 3009.	3.3	4
39	Hot-Electron-Induced Degradation in BCB- and SiN-Passivated \$hbox{Al}_{0.25}hbox{Ga}_{0.75}hbox{As/In}_{0.2}hbox{Ga}_{0.8}hbox{As}\$ PHEMTs. IEEE Transactions on Device and Materials Reliability, 2007, 7, 488-493.	2.0	3
40	Enhancement of confined femto-ablation at SiO2/Si interface by embedded metallic nanoparticles. Materials Today Physics, 2018, 4, 58-63.	6.0	3
41	The Effect of Temperature on the Operation of Quantum Well Laser: A Simulation Study Based on Three-Level Rate Equations. Fiber and Integrated Optics, 2006, 25, 441-450.	2.5	2
42	New progress in electron-injection detectors for NIR imagers with low noise and high frame rates. Proceedings of SPIE, 2016, , .	0.8	2
43	Si <inf>3</inf> N <inf>4</inf> / SiO <inf>2</inf> passivation layer on InP for optimization of the 1.55μm MQW FP laser performance. , 2009, , .		1
44	Impact of metal nano-grating phase-shift on plasmonic MSM photodetectors. , 2010, , .		1
45	Narrow bandwidth optimization using a polymer microring resonator in a thulium–holmium fiber laser cavity. Optics Communications, 2020, 466, 125574.	2.1	1
46	Evidence of Existence of Different Surface States in INP-Based High Electron Mobility Transistors (HEMTs). Indium Phosphide and Related Materials Conference (IPRM), IEEE International Conference on, 2007, , .	0.0	0
47	Nano-patterned high-responsivity GaAs metal-semiconductor-metal photodetector. , 2011, , .		0
48	Plasmonic-based GaAs balanced metal-semiconductor-metal photodetector with high common mode rejection ratio. , 2012, , .		0
49	AuAg Bimetallic Non-Alloyed Nanoparticles on SiO ₂ Spacer Layer for Improved Light Absorption in Thin-Film <i>c</i> -Si Solar Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 2117-2120.	0.9	0