

Chee Leong Tan

List of Publications by Year in descending order

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49
papers

715
citations

686830

13
h-index

580395

25
g-index

49
all docs

49
docs citations

49
times ranked

943
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging technologies for high performance infrared detectors. <i>Nanophotonics</i> , 2018, 7, 169-197.	2.9	203
2	Analysis of nano-grating-assisted light absorption enhancement in metal-semiconductor-metal photodetectors patterned using focused ion-beam lithography. <i>Optics Communications</i> , 2011, 284, 1694-1700.	1.0	55
3	Absorption enhancement of 980nm MSM photodetector with a plasmonic grating structure. <i>Optics Communications</i> , 2010, 283, 1763-1767.	1.0	42
4	Localized surface plasmon resonance with broadband ultralow reflectivity from metal nanoparticles on glass and silicon subwavelength structures. <i>Optics Express</i> , 2012, 20, 17448.	1.7	35
5	High-responsivity plasmonics-based GaAs metal-semiconductor-metal photodetectors. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	26
6	Bi-SERS sensing and enhancement by Au-Ag bimetallic non-alloyed nanoparticles on amorphous and crystalline silicon substrate. <i>Optics Express</i> , 2015, 23, 6254.	1.7	26
7	Bimetallic non-alloyed NPs for improving the broadband optical absorption of thin amorphous silicon substrates. <i>Nanoscale Research Letters</i> , 2014, 9, 181.	3.1	25
8	Surface passivation and aging of InGaAs/InP heterojunction phototransistors. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	24
9	A highly sensitive, large area, and self-powered UV photodetector based on coalesced gallium nitride nanorods/graphene/silicon (111) heterostructure. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	23
10	Plasmon-enhanced reduced graphene oxide photodetector with monometallic of Au and Ag nanoparticles at VIS-NIR region. <i>Scientific Reports</i> , 2021, 11, 19688.	1.6	21
11	Sensitivity Limit of Nanoscale Phototransistors. <i>IEEE Electron Device Letters</i> , 2017, 38, 1051-1054.	2.2	18
12	InGaAs/InP quantum well infrared photodetector integrated on Si substrate by Mo/Au metal-assisted wafer bonding. <i>Optical Materials Express</i> , 2018, 8, 413.	1.6	16
13	Optical absorption enhancement of hybrid-plasmonic-based metal-semiconductor-metal photodetector incorporating metal nanogratings and embedded metal nanoparticles. <i>Optics Express</i> , 2013, 21, 1713.	1.7	15
14	Metamorphic InP/InGaAs heterojunction bipolar transistors on GaAs substrate: DC and microwave performances. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 2671-2676.	1.6	12
15	Temperature dependence of avalanche multiplication in inp-based HBTs with InGaAs/InP composite collector: device characterization and physics model. <i>IEEE Transactions on Electron Devices</i> , 2003, 50, 2335-2343.	1.6	12
16	Open architecture time of flight 3D SWIR camera operating at 150 MHz modulation frequency. <i>Optics Express</i> , 2017, 25, 19291.	1.7	12
17	Metal Nano-Grating Optimization for Higher Responsivity Plasmonic-Based GaAs Metal-Semiconductor-Metal Photodetector. <i>Journal of Lightwave Technology</i> , 2013, 31, 1088-1092.	2.7	11
18	Spatial frequency spectrum of SPR-TFBG: A simple spectral analysis for in-situ refractometry. <i>Optik</i> , 2020, 219, 164970.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Impact of Nanograting Phase-Shift on Light Absorption Enhancement in Plasmonics-Based Metal-Semiconductor-Metal Photodetectors. <i>Advances in Optical Technologies</i> , 2011, 2011, 1-8.	0.8	9
20	Understanding of the excess channel noise in InAlAs [∧] InGaAs [∧] InP high electron mobility transistors in impact ionization regime. <i>Applied Physics Letters</i> , 2007, 90, 103503.	1.5	8
21	High-efficiency light-trapping effect using silver nanoparticles on thin amorphous silicon subwavelength structure. <i>Optics Letters</i> , 2013, 38, 4943.	1.7	8
22	AuAg bimetallic nonalloyed nanoparticles on a periodically nanostructured GaAs substrate for enhancing light trapping. <i>Optics Letters</i> , 2015, 40, 5798.	1.7	8
23	Engineering the gain-bandwidth product of phototransistor diodes. <i>Applied Physics Letters</i> , 2019, 115, 051104.	1.5	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. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	7
26	Investigation of drain current transient in BCB- and SiN-passivated Al _{0.25} Ga _{0.75} As [∧] In _{0.2} Ga _{0.8} As pseudomorphic high electron mobility transistors. <i>Applied Physics Letters</i> , 2007, 90, 033501.	1.5	6
27	Design of high-sensitivity plasmonics-assisted GaAs metal-semiconductor-metal photodetectors. , 2010, , .		6
28	Metal-semiconductor-metal (MSM) photodetectors with plasmonic nanogratings*. <i>Pure and Applied Chemistry</i> , 2011, 83, 2107-2113.	0.9	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. <i>Optics Letters</i> , 2017, 42, 431.	1.7	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. <i>Optics and Lasers in Engineering</i> , 2013, 51, 402-409.	2.0	4
34	Heterojunction phototransistor for highly sensitive infrared detection. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
35	Broadband high responsivity large-area plasmonic-enhanced multilayer MoS ₂ on p-type silicon photodetector using Au nanostructures. <i>Materials Research Express</i> , 2019, 6, 105090.	0.8	4
36	Photocatalytic Application of Two-dimensional Materials-based Heterostructure Based on Molybdenum and Tungsten Disulfides and Gallium Nitride: A Density-Functional Theory Study. <i>Materials Today Communications</i> , 2020, 25, 101646.	0.9	4

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37	Functionalized fiber-optic long-period grating with reduced cladding size for humidity sensing. Optical Engineering, 2019, 58, 1.	0.5	4
38	When shot-noise-limited photodetectors disobey Poisson statistics. Optics Letters, 2020, 45, 3009.	1.7	4
39	Hot-Electron-Induced Degradation in BCB- and SiN-Passivated $\text{Al}_{0.25}\text{Ga}_{0.75}\text{As}/\text{In}_{0.2}\text{Ga}_{0.8}\text{As}$ PHEMTs. IEEE Transactions on Device and Materials Reliability, 2007, 7, 488-493.	1.5	3
40	Enhancement of confined femto-ablation at SiO ₂ /Si interface by embedded metallic nanoparticles. Materials Today Physics, 2018, 4, 58-63.	2.9	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.	1.7	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 ₃ N ₄ / SiO ₂ passivation layer on InP for optimization of the 1.55 μm 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 ³⁺ holmium fiber laser cavity. Optics Communications, 2020, 466, 125574.	1.0	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