Tomohiro Amemiya

List of Publications by Year
in descending order

25 papers	333 citations	1040056 9 h-index	839539 18 g-index
25 all docs	25 docs citations	25 times ranked	508 citing authors

#	Article	IF	Citations
1	Few-layer HfS2 transistors. Scientific Reports, 2016, 6, 22277.	3.3	131
2	Crystalline/Amorphous Si Integrated Optical Couplers for 2D/3D Interconnection. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 255-263.	2.9	29
3	Metamaterial Waveguide Devices for Integrated Optics. Materials, 2017, 10, 1037.	2.9	22
4	Lateral-Current-Injection Distributed Feedback Laser With Surface Grating Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1175-1182.	2.9	21
5	Amorphous-Silicon Inter-Layer Grating Couplers With Metal Mirrors Toward 3-D Interconnection. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 317-322.	2.9	12
6	Demonstration of slow-light effect in silicon-wire waveguides combined with metamaterials. Optics Express, 2019, 27, 15007.	3.4	12
7	Permeability-controlled optical modulator with Tri-gate metamaterial: control of permeability on InP-based photonic integration platform. Scientific Reports, 2015, 5, 8985.	3.3	11
8	Magnetic Interactions at Optical Frequencies in an InP-Based Waveguide Device With Metamaterial. IEEE Journal of Quantum Electronics, 2011, 47, 736-744.	1.9	10
9	GaInAsP/InP Lateral Current Injection Laser With Uniformly Distributed Quantum-Well Structure. IEEE Photonics Technology Letters, 2012, 24, 888-890.	2.5	10
10	Analysis of the slow-light effect in silicon wire waveguides with metamaterials. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 797.	2.1	10
11	Highly efficient vertical coupling to a topological waveguide with defect structure. Optics Express, 2021, 29, 32755.	3.4	10
12	Optical Lattice Model Toward Nonreciprocal Invisibility Cloaking. IEEE Journal of Quantum Electronics, 2015, 51, 1-10.	1.9	9
13	Effect of increasing gate capacitance on the performance of a p-MoS₂/HfS₂ van der Waals heterostructure tunneling field-effect transistor. Japanese Journal of Applied Physics, 2019, 58, SBBH02.	1.5	9
14	Control of slow-light effect in a metamaterial-loaded Si waveguide. Optics Express, 2020, 28, 23198.	3.4	8
15	Type-II HfS₂/MoS₂ Heterojunction Transistors. IEICE Transactions on Electronics, 2018, E101.C, 338-342.	0.6	6
16	Carrier-concentration-dependent resonance frequency shift in a metamaterial loaded semiconductor. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2110.	2.1	5
17	Permeability retrieval in InP-based waveguide optical device combined with metamaterial. Optics Letters, 2012, 37, 2301.	3.3	5
18	High-speed infrared photonic band microscope using hyperspectral Fourier image spectroscopy. Optics Letters, 2022, 47, 2430.	3.3	5

#	Article	IF	Citations
19	Optically Driven Terahertz Wave Modulator Using Ring-Shaped Microstripline With GaInAs Photoconductive Mesa Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	3
20	Metamaterial infrared refractometer for determining broadband complex refractive index. Optics Express, 2019, 27, 28879.	3.4	3
21	Low-power and high-speed operation capabilities of semiconductor membrane lasers — Energy cost limited by Joule heat. , 2014, , .		2
22	Metamaterial-based control of permeability in GaInAsP/InP multimode-interferometers. , 2010, , .		0
23	Non-unity permeability in InP-based Mach-Zehnder interferometer with metamaterial. , 2011, , .		0
24	Low Threshold and High Speed Operation of 1.55-Î¼m-Band Lasers by InP-Based Membrane Structure. The Review of Laser Engineering, 2016, 44, 508.	0.0	0
25	Control of slow-light effect in metamaterial-loaded Si waveguide. , 2019, , .		0