

Saeed Fathololoumi

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,701
citations

516710

16
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

1841
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz quantum cascade lasers operating up to ≈ 200 K with optimized oscillator strength and improved injection tunneling. <i>Optics Express</i> , 2012, 20, 3866.	3.4	493
2	p-Type Modulation Doped InGaN/GaN Dot-in-a-Wire White-Light-Emitting Diodes Monolithically Grown on Si(111). <i>Nano Letters</i> , 2011, 11, 1919-1924.	9.1	255
3	Optical performance of top-down fabricated InGaN/GaN nanorod light emitting diode arrays. <i>Optics Express</i> , 2011, 19, 25528.	3.4	167
4	Tuning the Surface Charge Properties of Epitaxial InN Nanowires. <i>Nano Letters</i> , 2012, 12, 2877-2882.	9.1	96
5	Full-color InGaN/GaN dot-in-a-wire light emitting diodes on silicon. <i>Nanotechnology</i> , 2011, 22, 445202.	2.6	93
6	Widely-tunable, narrow-linewidth III-V/silicon hybrid external-cavity laser for coherent communication. <i>Optics Express</i> , 2018, 26, 7920.	3.4	93
7	1.6 Tbps Silicon Photonics Integrated Circuit and 800 Gbps Photonic Engine for Switch Co-Packaging Demonstration. <i>Journal of Lightwave Technology</i> , 2021, 39, 1155-1161.	4.6	89
8	Power-efficient III-V/Silicon external cavity DBR lasers. <i>Optics Express</i> , 2012, 20, 23456.	3.4	86
9	1.6Tbps Silicon Photonics Integrated Circuit for Co-Packaged Optical-IO Switch Applications. , 2020, , .		42
10	Effect of oscillator strength and intermediate resonance on the performance of resonant phonon-based terahertz quantum cascade lasers. <i>Journal of Applied Physics</i> , 2013, 113, 113109.	2.5	38
11	Large-Scale Cubic InN Nanocrystals by a Combined Solution- and Vapor-Phase Method under Silica Confinement. <i>Journal of the American Chemical Society</i> , 2012, 134, 780-783.	13.7	28
12	An indirectly pumped terahertz quantum cascade laser with low injection coupling strength operating above 150 K. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	28
13	Molecular beam epitaxial growth and characterization of catalyst-free InN/In _x Ga _{1-x} N core/shell nanowire heterostructures on Si(111) substrates. <i>Nanotechnology</i> , 2012, 23, 085205.	2.6	25
14	Enhanced efficiency in near-infrared inorganic/organic hybrid optical upconverter with an embedded mirror. <i>Journal of Applied Physics</i> , 2008, 103, 103112.	2.5	24
15	Thermal Behavior Investigation of Terahertz Quantum-Cascade Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 1139-1144.	1.9	21
16	On metal contacts of terahertz quantum cascade lasers with a metal-metal waveguide. <i>Semiconductor Science and Technology</i> , 2011, 26, 105021.	2.0	21
17	Time-Resolved Thermal Quenching of THz Quantum Cascade Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 396-404.	1.9	19
18	Observation of phonon sideband emission in intrinsic InN nanowires: a photoluminescence and micro-Raman scattering study. <i>Nanotechnology</i> , 2012, 23, 415706.	2.6	14

#	ARTICLE	IF	CITATIONS
19	On the efficiency droop of top-down etched InGaN/GaN nanorod light emitting diodes under optical pumping. AIP Advances, 2013, 3, .	1.3	13
20	Electrically switching transverse modes in high power THz quantum cascade lasers. Optics Express, 2010, 18, 10036.	3.4	12
21	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. Scientific Reports, 2014, 4, 7083.	3.3	11
22	A Silicon Photonic Transceiver and Hybrid Tunable Laser for 64 Gbaud Coherent Communication. , 2018, , .		10
23	Electronic temperatures of terahertz quantum cascade active regions with phonon scattering assisted injection and extraction scheme. Optics Express, 2013, 21, 10172.	3.4	8
24	Beam Pattern Investigation of Terahertz Quantum Cascade Lasers. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 267-270.	0.4	6
25	Nanoscale channel and small area amorphous silicon vertical thin film transistor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 869-874.	2.1	3
26	Tight-Binding Analysis of Coupled Dielectric Waveguide Structures. Fiber and Integrated Optics, 2006, 25, 11-27.	2.5	2
27	Silicon photonics transmitters and receivers for 4x25 Gb/s interconnects. , 2014, , .		2
28	A model reduction based approach for extracting the diffusion and generation terms of pn junction leakage current. Semiconductor Science and Technology, 2003, 18, 234-240.	2.0	1
29	Numerical study on the scaling of a-Si:H thin film transistors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 888-891.	2.1	1
30	Near-infrared inorganic/organic hybrid optical upconverter with an embedded mirror. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S23.	0.8	0