Paul W Juodawlkis

List of Publications by Year
in descending order

76	908	643344 15	563245 28
papers	citations	h-index	g-index

77	77	77	970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	2.2	152
2	Brillouin laser stabilization to a single ion. , 2021, , .		0
3	InGaAsP/InP Membrane Gain Sections for III-V/SiNx Heterogeneous Photonic Integration. , 2021, , .		1
4	Integrated Technologies for Portable Optical Clocks. , 2021, , .		2
5	Efficient Optical Coupling between III-V Semiconductor and SiNx Waveguides via Heteroepitaxial Integration. , 2021, , .		1
6	High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. IEEE Photonics Journal, 2020, 12, 1-12.	1.0	16
7	Operation of an optical atomic clock with a Brillouin laser subsystem. Nature, 2020, 588, 244-249.	13.7	41
8	Low-loss Thin Film Lithium Niobate Bonded on Silicon Nitride Waveguides. , 2020, , .		9
9	High Power (> 300 mW) 1550 nm On-Chip Laser Realized Using Passively Aligned Hybrid Integration. , 2020, , .		1
10	Versatile Silicon Nitride and Alumina Integrated Photonic Platforms for the Ultraviolet to Short-Wave Infrared. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-15.	1.9	54
11	A visible-light integrated photonic platform for atomic systems. , 2019, , .		2
12	Luneburg Lens for Wide-Angle Chip-Scale Optical Beam Steering. , 2019, , .		4
13	Ultra-narrow linewidth Brillouin laser with nanokelvin temperature self-referencing. Optica, 2019, 6, 152.	4.8	55
14	Microwave Photonic Subsystems-on-Chip. , 2019, , .		0
15	Hertz-Class Brillouin Lasing with Nanokelvin Thermal Sensing. , 2018, , .		0
16	Demonstration of a highly stable 10â€‰â€‰GHz optical frequency comb with low timing jitter from a SCOWA-based harmonically mode-locked nested cavity laser. Optics Letters, 2018, 43, 2396.	1.7	3
17	Planar-lens Enabled Beam Steering for Chip-scale LIDAR. , 2018, , .		27
18	Multi-layer integrated photonics from the ultraviolet to the infrared. , 2018, , .		8

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19	Automated Initialization of Reconfigurable Silicon-Nitride (SiNx) Filters. , 2018, , .		5
20	Long-Range Static and Dynamic Thermal Crosstalk in Silicon-Nitride (SiNx) Photonic Integrated Circuits. , 2018, , .		2
21	Electronic-photonic integration for government applications. , 2017, , .		1
22	Multi-level photonics for trapped-ion quantum computing. , 2017, , .		2
23	Optical unmasking of spectrally overlapping RF signals. Optics Express, 2017, 25, 26581.	1.7	4
24	Recovery of spectrally overlapping QPSK signals using a nonlinear optoelectronic filter. , 2017, , .		1
25	A photonic integrated resonant accelerometer. , 2016, , .		2
26	Localized in situ cladding annealing for post-fabrication trimming of silicon photonic integrated circuits. Optics Express, 2016, 24, 5996.	1.7	13
27	Wide Bandwidth (30 GHz) Slab-Coupled Optical Waveguide Photodiodes. , 2016, , .		1
28	A 10-GHz Optical Frequency Comb from a SCOWA-Based Laser With an Intra-Cavity 10,000 Finesse Etalon. , 2016, , .		0
29	Nonlinear equalization of microwave photonic links. , 2016, , .		1
30	A nonlinear optoelectronic filter for electronic signal processing. Scientific Reports, 2015, 4, 3613.	1.6	9
31	Unified Theory of Oscillator Phase Noise II: Flicker Noise. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4130-4144.	2.9	61
32	Unified Theory of Oscillator Phase Noise I: White Noise. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2371-2381.	2.9	16
33	Slab-coupled optical waveguide (SCOW) devices and photonic integrated circuits (PICs). , 2013, , .		1
34	Low-noise RF-amplifier-free slab-coupled optical waveguide coupled optoelectronic oscillators: physics and operation. Optics Express, 2012, 20, 19420.	1.7	56
35	Amplifier-free slab-coupled optical waveguide optoelectronic oscillator systems. Optics Express, 2012, 20, 19589.	1.7	15
36	High-power, compact slab-coupled optical waveguide (SCOW) emitters and their applications. , 2012, , .		0

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37	High dynamic range suppressed-bias microwave photonic links using unamplified semiconductor laser source. , 2012, , .		0
38	All-diode generation and amplification of 10 GHz pulse-trains from coupled-cavity mode-locked lasers using Slab-Coupled Waveguide Amplifiers. , 2012, , .		0
39	High-Power Slab-Coupled Optical Waveguide Lasers and Amplifiers. Semiconductors and Semimetals, 2012, , 1-47.	0.4	1
40	Third-order intermodulation distortion characterization of variable confinement slab-coupled optical waveguide photodiodes. , 2011, , .		2
41	Packaged, High-Power, Narrow-Linewidth Slab-Coupled Optical Waveguide External Cavity Laser (SCOWECL). IEEE Photonics Technology Letters, 2011, 23, 974-976.	1.3	44
42	High-power and high-speed waveguide uni-traveling-carrier photodiodes for microwave photonics applications. , 2011, , .		0
43	Uni-traveling-carrier variable confinement waveguide photodiodes. Optics Express, 2011, 19, 10199.	1.7	21
44	An etalon stabilized 10-GHz comb source using a slab coupled waveguide amplifier. Proceedings of SPIE, 2011, , .	0.8	0
45	Limits to Maximum Absorption Length in Waveguide Photodiodes. IEEE Photonics Journal, 2011, 3, 676-685.	1.0	6
46	Noise Figure of Watt-Class Ultralow-Confinement Semiconductor Optical Amplifiers. IEEE Journal of Quantum Electronics, 2011, 47, 66-75.	1.0	15
47	Uniformity study of wafer-scale InP-to-silicon hybrid integration. Applied Physics A: Materials Science and Processing, 2011, 103, 213-218.	1.1	34
48	Slab-coupled optical waveguide (SCOW) based optoelectronic oscillator (OEO). , 2011, , .		4
49	Compact external-cavity semiconductor mode-locked laser with quantum-well-intermixed modulator and saturable absorber. , 2011, , .		5
50	High-Power, Low-Noise Slab-Coupled Optical Waveguide (SCOW) Amplifiers and Lasers. , 2011, , .		0
51	High-Output Saturation Power Variable Confinement Slab-Coupled Optical Waveguide Amplifier. , 2011, , .		3
52	Low-noise, low repetition rate, semiconductor-based mode-locked laser source suitable for high bandwidth photonic analogâ€“digital conversion. Applied Optics, 2010, 49, 2850.	2.1	11
53	Propagation Delay of Waveguide Photodetector. Journal of Lightwave Technology, 2010, 28, 2099-2104.	2.7	2
54	High-power ultralow-noise semiconductor external cavity lasers based on low-confinement optical waveguide gain media. Proceedings of SPIE, 2010, , .	0.8	3

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55	150 mm InP-to-Silicon Direct Wafer Bonding for Silicon Photonic Integrated Circuits. ECS Transactions, 2009, 16, 235-241.	0.3	10
56	Packaged 1.5-mum Quantum-Well SOA With 0.8-W Output Power and 5.5-dB Noise Figure. IEEE Photonics Technology Letters, 2009, 21, 1208-1210.	1.3	25
57	Nonlinear Absorption and Carrier Dynamics in Slab-Coupled Optical Waveguide Amplifiers. , 2009, , .		1
58	Continuous-wave two-photon absorption in a Watt-class semiconductor optical amplifier. Optics Express, 2008, 16, 12387.	1.7	21
59	Ultrafast nonlinearities and gain dynamics in high-power semiconductor amplifiers. Applied Physics Letters, 2008, 93, 251106.	1.5	4
60	Noise figure of a packaged, high-power slab-coupled optical waveguide amplifier (SCOWA). , 2008, , .		2
61	Heat transfer and thermal lensing in large-mode high-power laser diodes. , 2007, , .		1
62	Advances in 1.5-μm InGaAsP/InP slab-coupled optical waveguide amplifiers (SCOWAs). Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	6
63	Slab-Coupled Optical Waveguide Devices for Low-Noise Signal Generation. LEOS Summer Topical Meeting, 2007, , .	0.0	1
64	Gain-Power Trade-Off in Low-Confinement Semiconductor Optical Amplifiers. , 2007, , .		6
65	980-nm Monolithic Passively Mode-Locked Diode Lasers With 62 pJ of Pulse Energy. IEEE Photonics Technology Letters, 2007, 19, 937-939.	1.3	12
66	250 mW, 15Âµm monolithic passively mode-locked slab-coupled optical waveguide laser. Optics Letters, 2006, 31, 223.	1.7	55
67	Submicron Thermal Imaging of High Power Slab Coupled Optical Waveguide Laser (SCOWL). , 2006, , 187.		0
68	High power monolithic passively mode-locked slab-coupled optical waveguide lasers. , 2006, , .		1
69	High power 1.5-μm InGaAsP/InP Colliding-Pulse Mode-Locked Slab-Coupled Optical Waveguide Laser. , 2006, , .		2
70	Time-Resolved Microscale Temperature Measurements of High-Power Semiconductor Lasers. , 2005, , 657.		0
71	InGaAsP/InP quantum-well electrorefractive modulators with sub-volt Vpi. , 2004, , .		5
72	Measurement of mode-locked laser timing jitter by use of phase-encoded optical sampling. Optics Letters, 2001, 26, 289.	1.7	22

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73	Hole-induced transient bandgap renormalization: A mechanism for photo-induced absorption in defect-engineered semiconductors. Applied Physics Letters, 2000, 76, 1722-1724.	1.5	15
74	Ultrafast optical devices for high-speed optical data links. , 1999, , .		1
75	Ultrafast carrier dynamics and optical nonlinearities of low-temperature-grown multiple quantum wells. , 1998, , .		1
76	Cooling of an Integrated Brillouin Laser below the Thermal Limit. Optics Express, 0, , .	1.7	0