Koji Enbutsu

List of Publications by Year
in descending order

22	976	933447 10	940533 16
papers	citations	h-index	g-index

22	22	22	688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inter-band non-degenerate phase-sensitive amplification scheme for low-noise full C-band transmission. IEICE Communications Express, 2022, 11, 64-69.	0.4	4
2	PPLN-Based Optical Parametric Amplification for Wideband WDM Transmission. Journal of Lightwave Technology, 2022, 40, 3374-3384.	4.6	20
3	Potts model solver based on hybrid physical and digital architecture. Communications Physics, 2022, 5, .	5.3	7
4	Wideband PPLN-Based Phase-Sensitively Amplified Transmission of 20-Channel 96-Gbaud WDM Signal. Journal of Lightwave Technology, 2022, 40, 5467-5477.	4.6	0
5	Accurate Estimation of Chromatic Dispersion for Non-Degenerate Phase-Sensitive Amplification. Journal of Lightwave Technology, 2021, 39, 24-32.	4.6	7
6	All-optical quadrature measurement of over-THz-bandwidth continuous-wave squeezed light. , 2021, , .		0
7	Non-degenerate phase-sensitive amplification scheme using digital dispersion pre-equalization for unrepeated transmission. Optics Express, 2021, 29, 8451.	3.4	4
8	Collective and synchronous dynamics of photonic spiking neurons. Nature Communications, 2021, 12, 2325.	12.8	25
9	Erratum to â€œ4-dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Moduleâ€•[Jun 20 10.1109/JQE.2020.2982698]. IEEE Journal of Quantum Electronics, 2021, 57, 1-1.	1.9	0
10	Over-30-dB gain and 1-dB noise figure phase-sensitive amplification using a pump-combiner-integrated fiber I/O PPLN module. Optics Express, 2021, 29, 28824.	3.4	22
11	100,000-spin coherent Ising machine. Science Advances, 2021, 7, eabh0952.	10.3	101
12	8-Tbps (20 Ã— 400 Gbps) Unrepeated Transmission over 80 km with 2-THz PPLN-Based Phase-Sensitive Amplification Using Precise Chromatic Dispersion Pre-Compensation. , 2021, , .		2
13	4-dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Module. IEEE Journal of Quantum Electronics, 2020, 56, 1-5.	1.9	9
14	Simulating Ising Spins in External Magnetic Fields with a Network of Degenerate Optical Parametric Oscillators. Physical Review Applied, 2020, 13, .	3.8	18
15	All-optical phase-sensitive detection for ultra-fast quantum computation. Optics Express, 2020, 28, 34916.	3.4	31
16	Continuous and long-term stabilization of degenerate optical parametric oscillators for large-scale optical hybrid computers. Optics Express, 2020, 28, 38553.	3.4	1
17	Gain Ripple and Passband Narrowing due to Residual Chromatic Dispersion in Non-Degenerate Phase-Sensitive Amplifiers. , 2020, , .		3
18	Experimental investigation of performance differences between coherent Ising machines and a quantum annealer. Science Advances, 2019, 5, eaau0823.	10.3	169

#	Article	IF	Citations
19	Over-30-dB phase-sensitive amplification using a fiber-pigtailed PPLN waveguide module. , 2019, , .		8
20	Understanding dynamics of coherent Ising machines through simulation of large-scale 2D Ising models. Nature Communications, 2018, 9, 5020.	12.8	40
21	Low-Parametric-Crosstalk Phase-Sensitive Amplifier for Guard-Band-Less DWDM Signal Using PPLN Waveguides. Journal of Lightwave Technology, 2017, 35, 755-761.	4.6	36
22	A coherent Ising machine for 2000-node optimization problems. Science, 2016, 354, 603-606.	12.6	469