

# Koji Enbutsu

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

976  
citations

933447

10  
h-index

940533

16  
g-index

22  
all docs

22  
docs citations

22  
times ranked

688  
citing authors

#	ARTICLE	IF	CITATIONS
1	A coherent Ising machine for 2000-node optimization problems. <i>Science</i> , 2016, 354, 603-606.	12.6	469
2	Experimental investigation of performance differences between coherent Ising machines and a quantum annealer. <i>Science Advances</i> , 2019, 5, eaau0823.	10.3	169
3	100,000-spin coherent Ising machine. <i>Science Advances</i> , 2021, 7, eabh0952.	10.3	101
4	Understanding dynamics of coherent Ising machines through simulation of large-scale 2D Ising models. <i>Nature Communications</i> , 2018, 9, 5020.	12.8	40
5	Low-Parametric-Crosstalk Phase-Sensitive Amplifier for Guard-Band-Less DWDM Signal Using PPLN Waveguides. <i>Journal of Lightwave Technology</i> , 2017, 35, 755-761.	4.6	36
6	All-optical phase-sensitive detection for ultra-fast quantum computation. <i>Optics Express</i> , 2020, 28, 34916.	3.4	31
7	Collective and synchronous dynamics of photonic spiking neurons. <i>Nature Communications</i> , 2021, 12, 2325.	12.8	25
8	Over-30-dB gain and 1-dB noise figure phase-sensitive amplification using a pump-combiner-integrated fiber I/O PPLN module. <i>Optics Express</i> , 2021, 29, 28824.	3.4	22
9	PPLN-Based Optical Parametric Amplification for Wideband WDM Transmission. <i>Journal of Lightwave Technology</i> , 2022, 40, 3374-3384.	4.6	20
10	Simulating Ising Spins in External Magnetic Fields with a Network of Degenerate Optical Parametric Oscillators. <i>Physical Review Applied</i> , 2020, 13, .	3.8	18
11	4-dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Module. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-5.	1.9	9
12	Over-30-dB phase-sensitive amplification using a fiber-pigtailed PPLN waveguide module. , 2019, , .		8
13	Accurate Estimation of Chromatic Dispersion for Non-Degenerate Phase-Sensitive Amplification. <i>Journal of Lightwave Technology</i> , 2021, 39, 24-32.	4.6	7
14	Potts model solver based on hybrid physical and digital architecture. <i>Communications Physics</i> , 2022, 5, .	5.3	7
15	Non-degenerate phase-sensitive amplification scheme using digital dispersion pre-equalization for unrepeated transmission. <i>Optics Express</i> , 2021, 29, 8451.	3.4	4
16	Inter-band non-degenerate phase-sensitive amplification scheme for low-noise full C-band transmission. <i>IEICE Communications Express</i> , 2022, 11, 64-69.	0.4	4
17	Gain Ripple and Passband Narrowing due to Residual Chromatic Dispersion in Non-Degenerate Phase-Sensitive Amplifiers. , 2020, , .		3
18	8-Tbps (20 Å— 400 Gbps) Unrepeated Transmission over 80 km with 2-THz PPLN-Based Phase-Sensitive Amplification Using Precise Chromatic Dispersion Pre-Compensation. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Continuous and long-term stabilization of degenerate optical parametric oscillators for large-scale optical hybrid computers. <i>Optics Express</i> , 2020, 28, 38553.	3.4	1
20	All-optical quadrature measurement of over-THz-bandwidth continuous-wave squeezed light. , 2021, , .		0
21	Erratum to "4-dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Module" [Jun 20 10.1109/JQE.2020.2982698]. <i>IEEE Journal of Quantum Electronics</i> , 2021, 57, 1-1.	1.9	0
22	Wideband PPLN-Based Phase-Sensitively Amplified Transmission of 20-Channel 96-Gbaud WDM Signal. <i>Journal of Lightwave Technology</i> , 2022, 40, 5467-5477.	4.6	0