

Toshihiko Hirooka

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

656
citations

1040056

9
h-index

940533

16
g-index

16
all docs

16
docs citations

16
times ranked

310
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh-speed orthogonal-TDM transmission with an optical Nyquist pulse train. Optics Express, 2012, 20, 1129.	3.4	233
2	Parabolic pulse generation by use of a dispersion-decreasing fiber with normal group-velocity dispersion. Optics Letters, 2004, 29, 498.	3.3	217
3	The Nyquist laser. Optica, 2014, 1, 15.	9.3	54
4	Single-channel 102 Tbit/s (256 Tbaud) optical Nyquist pulse transmission over 300 km. Optics Express, 2018, 26, 27221.	3.4	41
5	High-performance TDM demultiplexing of coherent Nyquist pulses using time-domain orthogonality. Optics Express, 2014, 22, 29456.	3.4	28
6	Single-channel 153 Tbit/s, 64 QAM coherent Nyquist pulse transmission over 150 km with a spectral efficiency of 83 bit/s/Hz. Optics Express, 2019, 27, 28952.	3.4	24
7	Single-channel 768 Tbit/s, 64 QAM coherent Nyquist pulse transmission over 150 km with a spectral efficiency of 97 bit/s/Hz. Optics Express, 2018, 26, 17418.	3.4	12
8	Theory of AM Mode-Locking of a Laser as an Arbitrary Optical Function Generator. IEEE Journal of Quantum Electronics, 2021, 57, 1-20.	1.9	12
9	Mode locking theory of the Nyquist laser. Optics Express, 2016, 24, 4981.	3.4	9
10	A Non-Perturbative Mode-Locking Theory of the Nyquist Laser With a Dirichlet Kernel Solution. IEEE Journal of Quantum Electronics, 2016, 52, 1-13.	1.9	6
11	Theory of FM Mode-Locking of a Laser as an Arbitrary Optical Function Generator. IEEE Journal of Quantum Electronics, 2022, 58, 1-25.	1.9	6
12	A Generalized Mode-Locking Theory for a Nyquist Laser With an Arbitrary Roll-off Factor PART I: Master Equations and Optical Filters in a Nyquist Laser. IEEE Journal of Quantum Electronics, 2021, 57, 1-17.	1.9	4
13	A Generalized Mode-Locking Theory for a Nyquist Laser With an Arbitrary Roll-Off Factor PART II: Oscillation Waveforms and Spectral Characteristics. IEEE Journal of Quantum Electronics, 2021, 57, 1-15.	1.9	4
14	Experiments on an FM Mode-Locked Laser as an Arbitrary Optical Function Generator. IEEE Journal of Quantum Electronics, 2022, 58, 1-16.	1.9	3
15	Software-Defined Fiber Optic Communications for Ultrahigh-Speed Optical Pulse Transmission Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	2
16	Experiments on an AM Mode-Locked Laser as an Arbitrary Optical Function Generator. IEEE Journal of Quantum Electronics, 2022, 58, 1-18.	1.9	1