

# Hidetaka Nishi

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Directly modulated membrane lasers with 108%GHz bandwidth on a high-thermal-conductivity silicon carbide substrate. Nature Photonics, 2021, 15, 28-35.	31.4	108
2	47.5 GHz Membrane-III-V-on-Si Directly Modulated Laser for Sub-pj/bit 100-Gbps Transmission. Photonics, 2021, 8, 31.	2.0	10
3	2-channel 112-Gbps NRZ Short-Reach Transmission Based on 60-GHz-Bandwidth Directly-Modulated Membrane Laser Array on Si. , 2021, , .		1
4	Development of Integrated Membrane III-V/Si DMLs for Multi-Core Fiber Transmission. , 2020, , .		0
5	Integration of Eight-Channel Directly Modulated Membrane-Laser Array and SiN AWG Multiplexer on Si. Journal of Lightwave Technology, 2019, 37, 266-273.	4.6	26
6	Integrated PAM-4 WDM Receiver by InGaAsP-Based Membrane PDs and SiN Demultiplexer on Si. , 2019, , .		1
7	On the Complexity Reduction of the Second-Order Volterra Nonlinear Equalizer for IM/DD Systems. Journal of Lightwave Technology, 2019, 37, 1214-1224.	4.6	77
8	400-Gb/s DMT-SDM Transmission Based on Membrane DML-Array-on-Silicon. Journal of Lightwave Technology, 2019, 37, 1805-1812.	4.6	15
9	ANN Equalizer for Performance Improvement of PAM-M Signals Using $1.3\text{-}\mu\text{m}$ Membrane DML-on-Silicon. , 2019, , .		0
10	Multicore-Fiber Receptacle With Compact Fan-In/Fan-Out Device for SDM Transceiver Applications. Journal of Lightwave Technology, 2018, 36, 5815-5822.	4.6	10
11	A 137-mW, 4 ch $\sim$ 25-Gbps Low-Power Compact Transmitter Flip-Chip-Bonded 1.3- $\mu$ m LD-Array-on-Si. , 2018, , .		3
12	Multicore-Fiber LC Receptacle with Compact Fan-in/Fan-out for Short-Reach Transceivers. , 2018, , .		6
13	56-Gb/s VSB-PAM-4 over 80-km Using 1550-nm EA-DFB Laser and Reduced-Complexity Nonlinear Equalization. , 2017, , .		6
14	Membrane distributed-reflector laser integrated with SiOx-based spot-size converter on Si substrate. Optics Express, 2016, 24, 18346.	3.4	39