

Okihiro Sugihara

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

244
citations

1040056

9
h-index

996975

15
g-index

38
all docs

38
docs citations

38
times ranked

193
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-induced self-written waveguide fabrication using 1550-nm laser light. Optics Letters, 2017, 42, 2236.	3.3	30
2	A Novel Preparation of High-Refractive-Index and Highly Transparent Polymer Nanohybrid Composites. Applied Physics Express, 2011, 4, 092601.	2.4	27
3	Sulfonyl-containing polymer and its alumina nanocomposite with high Abbe number and high refractive index. Optical Materials Express, 2015, 5, 1210.	3.0	20
4	01-20 THz ultra-broadband perfect absorber via a flat multi-layer structure. Optics Express, 2016, 24, 23177.	3.4	18
5	Evaluation of Modal Power Distribution of Automotive Optical Gigabit Ethernet Connections. Journal of Lightwave Technology, 2017, 35, 3664-3670.	4.6	16
6	Two-Photon Absorption Light-Induced Self-Written Waveguide for Single-Mode Optical Interconnection. Journal of Lightwave Technology, 2018, 36, 2478-2483.	4.6	16
7	Encircled Angular Flux: A New Measurement Metric for Radiating Modal Power Distributions from Step-Index Multimode Fibers. Journal of Lightwave Technology, 2016, 34, 3803-3810.	4.6	13
8	DAST single-nanometer crystal preparation using a substrate-supported rapid evaporation crystallization method. Nanoscale, 2016, 8, 18882-18886.	5.6	13
9	One-minute self-assembly of millimetre-long DAST crystalline microbelts via substrate-supported rapid evaporation crystallization. RSC Advances, 2017, 7, 31691-31695.	3.6	11
10	Ultra-Broadband THz Antireflective Coating with Polymer Composites. Polymers, 2017, 9, 574.	4.5	9
11	Molecularly Imprinted Polymer-Coated Optical Waveguide for Attogram Sensing. ACS Applied Materials & Interfaces, 2022, 14, 16727-16734.	8.0	9
12	Launch light dependency of step-index multimode fiber connections analyzed by modal power distribution using encircled angular flux. Applied Optics, 2017, 56, 876.	2.1	8
13	Near-Infrared Self-Written Optical Waveguides for Fiber-to-Chip Self-Coupling. Journal of Lightwave Technology, 2021, , 1-1.	4.6	8
14	Encircled Flux-based optimized simple launch condition for standardization of multimode polymer optical waveguide evaluations. Optics Express, 2010, 18, 23554.	3.4	7
15	Low-Attenuation Variable Mode Control Using Twist Processing for Step-Index Optical Fiber Loops. IEEE Photonics Technology Letters, 2019, 31, 1217-1220.	2.5	7
16	Calculation Model for Multimode Fiber Connection Using Measured Near- and Far-Field Patterns. IEEE Photonics Technology Letters, 2021, 33, 285-288.	2.5	6
17	Light-Induced Self-Written Optical Waveguide Fabrication by Near Infrared Continuous Wave Laser Light with Microwatt Power. , 2019, , .		4
18	New Approach on Multimode Polymer Optical Waveguides Evaluations. Journal of Lightwave Technology, 2013, 31, 1994-2000.	4.6	3

#	ARTICLE	IF	CITATIONS
19	Light-induced self-written waveguide formation by near-infrared wavelength continuous wave laser light. , 2017, , .		3
20	Transformation of the intensity profile for a step-index multimode fiber core. IEICE Electronics Express, 2017, 14, 20170375-20170375.	0.8	3
21	One-Drop Self-Assembly of Ultra-Fine Second-Order Organic Nonlinear Optical Crystal Nanowires. Nanoscale Research Letters, 2019, 14, 269.	5.7	3
22	Flexible Light-Induced Self-Written Optical Waveguide Using Gel Material. Journal of Robotics and Mechatronics, 2022, 34, 322-324.	1.0	3
23	Temperature insensitive low-loss optical connection for automotive gigabit plastic optical fiber communication. Japanese Journal of Applied Physics, 2018, 57, 08PB03.	1.5	2
24	Gigabit and Multi-Gigabit Data Transmission for Next-Generation Automotive Optical Network. , 2019, , .		2
25	Heat-resistant low-loss connectors for gigabit plastic optical fiber communication. , 2017, , .		1
26	Launch Light Design for Coupling Loss Measurement of Step-Index Multimode Fiber Connections. Journal of Lightwave Technology, 2021, 39, 2505-2513.	4.6	1
27	Camera sensor platform for high speed video data transmission using a wideband electro-optic polymer modulator. Optics Express, 2019, 27, 1877.	3.4	1
28	Organic-inorganic hybrid materials for wavelength division multiplexing filter in self-written waveguide module. , 2014, , .		0
29	High Abbe number and high refractive index organic-inorganic nanocomposite films. , 2015, , .		0
30	Optical Coupler With Multicore Plastic Optical Fiber. IEEE Photonics Technology Letters, 2017, 29, 659-662.	2.5	0
31	Low attenuation mode converter with modal power distribution controllability by twist processing in step-index optical fibers. , 2017, , .		0
32	Bandwidth Improvement of Step-index Multimode Fiber Using Variable Mode Scramble Device. , 2019, , .		0
33	Improvement of transmission characteristics of step-index multimode fibers using variable mode controller. Japanese Journal of Applied Physics, 2020, 59, SOOA02.	1.5	0
34	Next Generation Optical Interconnection Using Photonics Polymers: Progress of Light-Induced Self-Written Waveguide. Journal of Japan Institute of Electronics Packaging, 2017, 20, 341-344.	0.1	0
35	Looking Back on Activities of Optical Packaging Technology Committee. Journal of Japan Institute of Electronics Packaging, 2018, 21, 504-506.	0.1	0
36	Growth of organic nonlinear nanowires through a one-drop self-assembly method. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Investigation of Near-Infrared Light Induced Photopolymerization and Its Application for Self-Written Optical Waveguide. Journal of Japan Institute of Electronics Packaging, 2020, 23, 486-489.	0.1	0
38	Light-Induced Self-Written Waveguide Using Soft Material. , 2021, , .		0