

Masayuki Fujita

List of Publications by Year in descending order

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167
papers

5,421
citations

109321

35
h-index

88630

70
g-index

170
all docs

170
docs citations

170
times ranked

4307
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous-emission control by photonic crystals and nanocavities. <i>Nature Photonics</i> , 2007, 1, 449-458.	31.4	842
2	Simultaneous Inhibition and Redistribution of Spontaneous Light Emission in Photonic Crystals. <i>Science</i> , 2005, 308, 1296-1298.	12.6	451
3	Terahertz topological photonics for on-chip communication. <i>Nature Photonics</i> , 2020, 14, 446-451.	31.4	449
4	Theoretical analysis on light-extraction efficiency of organic light-emitting diodes using FDTD and mode-expansion methods. <i>Organic Electronics</i> , 2005, 6, 3-9.	2.6	183
5	Continuous wave lasing in GaInAsP microdisk injection laser with threshold current of 40 [micro sign]A. <i>Electronics Letters</i> , 2000, 36, 790.	1.0	163
6	Ultrasmall and ultralow threshold GaInAsP-InP microdisk injection lasers: design, fabrication, lasing characteristics, and spontaneous emission factor. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999, 5, 673-681.	2.9	153
7	Organic light-emitting diodes with photonic crystals on glass substrate fabricated by nanoimprint lithography. <i>Applied Physics Letters</i> , 2007, 90, 111114.	3.3	149
8	Extremely low-loss terahertz waveguide based on silicon photonic-crystal slab. <i>Optics Express</i> , 2015, 23, 31977.	3.4	143
9	Capture of a terahertz wave in a photonic-crystal slab. <i>Nature Photonics</i> , 2014, 8, 657-663.	31.4	135
10	Lasing characteristics of GaInAsP-InP strained quantum-well microdisk injection lasers with diameter of 2-10 μm . <i>IEEE Photonics Technology Letters</i> , 1997, 9, 878-880.	2.5	130
11	Microgear laser. <i>Applied Physics Letters</i> , 2002, 80, 2051-2053.	3.3	101
12	Optical and Electrical Characteristics of Organic Light-Emitting Diodes with Two-Dimensional Photonic Crystals in Organic/Electrode Layers. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3669-3677.	1.5	88
13	Photonic crystal efficiency boost. <i>Nature Photonics</i> , 2009, 3, 129-130.	31.4	84
14	Terahertz Sensor Using Photonic Crystal Cavity and Resonant Tunneling Diodes. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 1085-1097.	2.2	79
15	All-dielectric rod antenna array for terahertz communications. <i>APL Photonics</i> , 2018, 3, .	5.7	75
16	Reduction of operating voltage in organic light-emitting diode by corrugated photonic crystal structure. <i>Applied Physics Letters</i> , 2004, 85, 5769-5771.	3.3	71
17	Integrated Silicon Photonic Crystals Toward Terahertz Communications. <i>Advanced Optical Materials</i> , 2018, 6, 1800401.	7.3	71
18	Effective-medium-cladded dielectric waveguides for terahertz waves. <i>Optics Express</i> , 2019, 27, 38721.	3.4	71

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19	Terahertz multi-beam antenna using photonic crystal waveguide and Luneburg lens. <i>APL Photonics</i> , 2018, 3, 126105.	5.7	69
20	High-speed error-free wireless data transmission using a terahertz resonant tunnelling diode transmitter and receiver. <i>Electronics Letters</i> , 2016, 52, 1999-2001.	1.0	66
21	Photonic-crystal diplexers for terahertz-wave applications. <i>Optics Express</i> , 2016, 24, 7835.	3.4	63
22	Millimeter-Wave and Terahertz-Wave Applications Enabled by Photonics. <i>IEEE Journal of Quantum Electronics</i> , 2016, 52, 1-12.	1.9	60
23	Light Emission From Silicon in Photonic Crystal Nanocavity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 1090-1097.	2.9	51
24	Nutrient removal and starch production through cultivation of <i>Wolffia arrhiza</i> . <i>Journal of Bioscience and Bioengineering</i> , 1999, 87, 194-198.	2.2	50
25	Terahertz coherent receiver using a single resonant tunnelling diode. <i>Scientific Reports</i> , 2019, 9, 18125.	3.3	50
26	Unclad Microphotronics for Terahertz Waveguides and Systems. <i>Journal of Lightwave Technology</i> , 2020, , 1-1.	4.6	49
27	Proposal and finite-difference time-domain simulation of whispering gallery mode microgear cavity. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 1253-1258.	1.9	48
28	Large spontaneous emission factor of 0.1 in a microdisk injection laser. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 403-405.	2.5	47
29	Degradation of biotransformation products of nonylphenol ethoxylates by ozonation and UV/TiO ₂ treatment. <i>Water Science and Technology</i> , 2002, 46, 127-132.	2.5	47
30	All-dielectric integration of dielectric resonator antenna and photonic crystal waveguide. <i>Optics Express</i> , 2017, 25, 14706.	3.4	46
31	Characteristics of Effective-Medium-Clad Dielectric Waveguides. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 28-41.	3.1	45
32	Efficient mode converter to deep-subwavelength region with photonic-crystal waveguide platform for terahertz applications. <i>Optics Express</i> , 2019, 27, 28707.	3.4	44
33	Room temperature continuous wave lasing characteristics of GaInAsP/InP microdisk injection laser. <i>Electronics Letters</i> , 1998, 34, 278.	1.0	41
34	Organic light-emitting diode with ITO-organic photonic crystal. <i>Electronics Letters</i> , 2003, 39, 1750.	1.0	40
35	Investigation of spontaneous emission from quantum dots embedded in two-dimensional photonic-crystal slab. <i>Electronics Letters</i> , 2005, 41, 1402.	1.0	39
36	Simultaneous low-loss and low-dispersion in a photonic-crystal waveguide for terahertz communications. <i>Applied Physics Express</i> , 2019, 12, 012005.	2.4	36

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37	Enhancement of broadband optical absorption in photovoltaic devices by band-edge effect of photonic crystals. <i>Optics Express</i> , 2013, 21, 20111.	3.4	35
38	Modeling and Simulation of Terahertz Resonant Tunneling Diode-Based Circuits. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, , 1-8.	3.1	33
39	Nanophotonics-inspired all-silicon waveguide platforms for terahertz integrated systems. <i>Nanophotonics</i> , 2022, 11, 1741-1759.	6.0	33
40	Terahertz Band Communications With Topological Valley Photonic Crystal Waveguide. <i>Journal of Lightwave Technology</i> , 2021, 39, 7609-7620.	4.6	32
41	Half-Maxwell fisheye lens with photonic crystal waveguide for the integration of terahertz optics. <i>Optics Express</i> , 2020, 28, 2366.	3.4	31
42	GaNAsP Microdisk Injection Laser with Benzocyclobutene Polymer Cladding and Its Athermal Effect. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6364-6369.	1.5	30
43	Green Photoluminescence from GaInN Photonic Crystals. <i>Applied Physics Express</i> , 0, 1, 032004.	2.4	30
44	Light-emission properties of quantum dots embedded in a photonic double-heterostructure nanocavity. <i>Applied Physics Letters</i> , 2007, 90, 231101.	3.3	29
45	Gratingless integrated tunneling multiplexer for terahertz waves. <i>Optica</i> , 2021, 8, 621.	9.3	29
46	Biofloculation production from lower-molecular fatty acids as a novel strategy for utilization of sludge digestion liquor. <i>Water Science and Technology</i> , 2001, 44, 237-243.	2.5	27
47	Ultrathin amorphization of single-crystal silicon by ultraviolet femtosecond laser pulse irradiation. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	27
48	Bragg-Mirror Suppression for Enhanced Bandwidth in Terahertz Photonic Crystal Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	2.9	27
49	Improvement of signal-to-noise ratio of a subterahertz spectrometer using a continuous-wave multimode laser diode by single-mode fiber optics. <i>Applied Physics Letters</i> , 2004, 85, 881-883.	3.3	26
50	Characterizing kinetics of transport and transformation of selenium in waterâ€sediment microcosm free from selenium contamination using a simple mathematical model. <i>Chemosphere</i> , 2005, 58, 705-714.	8.2	26
51	Direct Fabrication of Photonic Crystal on Glass Substrate by Nanoimprint Lithography. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L210-L212.	1.5	24
52	Terahertz coherent oscillator integrated with slot-ring antenna using two resonant tunneling diodes. <i>Applied Physics Express</i> , 2021, 14, 034001.	2.4	22
53	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 1997, 13, 273-277.	3.6	21
54	Terahertz fibre transmission link using resonant tunnelling diodes integrated with photonicâ€crystal waveguides. <i>Electronics Letters</i> , 2019, 55, 398-400.	1.0	21

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55	Enhancement of photocurrent in ultrathin active-layer photodetecting devices with photonic crystals. Applied Physics Letters, 2012, 101, .	3.3	20
56	Terahertz Tag Using Photonic-Crystal Slabs. Journal of Lightwave Technology, 2018, 36, 4386-4392.	4.6	20
57	Controlled spontaneous-emission phenomena in semiconductor slabs with a two-dimensional photonic bandgap. Journal of Optics, 2006, 8, S131-S138.	1.5	19
58	Green GaInN photonic-crystal light-emitting diodes with small surface recombination effect. Applied Physics Letters, 2011, 98, .	3.3	19
59	Nanocavity brightens silicon. Nature Photonics, 2013, 7, 264-265.	31.4	19
60	Waveguideâ€”input resonant tunnelling diode mixer for THz communications. Electronics Letters, 2020, 56, 342-344.	1.0	19
61	Dielectric slot-coupled half-Maxwell fisheye lens as octave-bandwidth beam expander for terahertz-range applications. APL Photonics, 2021, 6, .	5.7	19
62	Ozone-Based Decomposition of Main Endocrine Disruption Chemicals in Sewage Effluent. Ozone: Science and Engineering, 2005, 27, 389-395.	2.5	17
63	Near-field out-of-plane coupling between terahertz photonic crystal waveguides. Optica, 2019, 6, 1002.	9.3	17
64	Reduction in surface recombination and enhancement of light emission in silicon photonic crystals treated by high-pressure water-vapor annealing. Applied Physics Letters, 2010, 97, 121111.	3.3	16
65	Integrated Circuits Using Photonic-Crystal Slab Waveguides and Resonant Tunneling Diodes for Terahertz Communication. , 2018, , .		16
66	48â€”Gbit/s 8K videoâ€”transmission using resonant tunnelling diodes inâ€”300â€”GHz band. Electronics Letters, 2021, 57, 668-669.	1.0	15
67	Photonic crystal technology for terahertz system integration. Proceedings of SPIE, 2016, , .	0.8	14
68	Towards Practical Terahertz Imaging System With Compact Continuous Wave Transceiver. Journal of Lightwave Technology, 2021, 39, 7850-7861.	4.6	14
69	Low-Threshold Continuous-Wave Lasing in Photopumped GaInAsP Microdisk Lasers. Japanese Journal of Applied Physics, 2001, 40, L875-L877.	1.5	13
70	Highly Efficient Resonant Tunneling Diode Terahertz Oscillator With a Split Ring Resonator. IEEE Electron Device Letters, 2021, 42, 982-985.	3.9	13
71	Lateral transport of hot electrons on a spherical target by 10.6â€” μ m CO ₂ laser irradiation. Applied Physics Letters, 1985, 46, 355-357.	3.3	12
72	Reflectance measurement of two-dimensional photonic crystal nanocavities with embedded quantum dots. Physical Review B, 2010, 82, .	3.2	12

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73	External Feedback Effect in Terahertz Resonant Tunneling Diode Oscillators. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 455-464.	3.1	12
74	GaInAsP Microcylinder (Microdisk) Injection Laser with AlInAs(Ox) Claddings. Japanese Journal of Applied Physics, 2001, 40, 5338-5339.	1.5	11
75	Integration of resonant tunneling diode with Terahertz photonic-crystal waveguide and its application to gigabit terahertz-wave communications. , 2014, , .		11
76	IEEE 802.15.3d-Compliant Waveforms for Terahertz Wireless Communications. Journal of Lightwave Technology, 2021, 39, 7748-7760.	4.6	11
77	Fabrication of Indium Phosphide Compound Photonic Crystal by Hydrogen Iodide/Xenon Inductively Coupled Plasma Etching. Japanese Journal of Applied Physics, 2004, 43, L1400-L1402.	1.5	10
78	Terahertz wireless communications using resonant tunnelling diodes with radio-over-fibre. Electronics Letters, 2019, 55, 949-951.	1.0	10
79	Proposal of Optical Near-Field Probe Using Evanescent Field of Microdisk Laser. Japanese Journal of Applied Physics, 1998, 37, 517-521.	1.5	9
80	Strain relaxation effect in microdisk lasers with compressively strained quantum wells. Applied Physics Letters, 2002, 80, 1511-1513.	3.3	9
81	Theoretical analysis of light emission from a coupled system of a photonic nanocavity and a quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2828-2830.	0.8	9
82	PAM4 48-Gbit/s wireless communication using a resonant tunneling diode in the 300-GHz band. IEICE Electronics Express, 2022, 19, 20210494-20210494.	0.8	9
83	Ultra-Broadband Terahertz Receivers Using Polymer Substrate. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 225-231.	3.1	8
84	Hybrid Integration Between Resonant Tunneling Diodes and Unclad Microphotonic Diplexer for Dual-Channel Coherent Terahertz Receiver. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	8
85	Integrated Terahertz Optics with Effective Medium for 600-GHz-band Imaging. , 2020, , .		8
86	Silicon Dielectric Diplexer Module for 600-GHz-Band Frequency-Division Multiplexing Wireless Communication. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 334-344.	3.1	8
87	Observation of long life plasma generated in a cavity by CO ₂ lasers. Laser and Particle Beams, 1986, 4, 17-25.	1.0	7
88	Production and recovery of an enzyme from Pseudomonas vesicularis var. poyalolyticus PH that degrades polyvinyl alcohol. World Journal of Microbiology and Biotechnology, 1997, 13, 63-67.	3.6	7
89	Design of PCR primers and a gene probe for extensive detection of poly(3-hydroxybutyrate) (PHB)-degrading bacteria possessing fibronectin type III linker type-PHB depolymerases. Applied Microbiology and Biotechnology, 2001, 55, 801-806.	3.6	7
90	Photonic-crystal slab for terahertz-wave integrated circuits. , 2012, , .		7

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91	A terahertz monolithic integrated resonant tunneling diode oscillator and mixer circuit. Proceedings of SPIE, 2016, , .	0.8	7
92	Optical near-field probe action in microdisk laser with 0.12 resolution. Electronics Letters, 1999, 35, 222.	1.0	7
93	Suppression of preheating in a double foil target irradiated by a 10.6-µm laser. Applied Physics Letters, 1984, 45, 370-372.	3.3	6
94	Resonant Tunneling Diode Receiver for Coherent Terahertz Wireless Communication. , 2018, , .		6
95	Remote detection of oils in water using laser Raman spectroscopy. Optics Communications, 2021, 480, 126508.	2.1	6
96	600-GHz-band Silicon Dielectric Waveguide Module. , 2021, , .		6
97	Integrated Resonant Tunneling Diode with Rectangular Waveguide I/O using Photonic Crystal Interface. , 2021, , .		6
98	Bioflocculation production from lower-molecular fatty acids as a novel strategy for utilization of sludge digestion liquor. Water Science and Technology, 2001, 44, 237-43.	2.5	6
99	Ultralow-loss photonic-crystal waveguides for gigabit terahertz-wave communications. , 2013, , .		5
100	Diplexer for terahertz-wave integrated circuit using a photonic-crystal slab. , 2014, , .		5
101	Terahertz sensing based on photonic crystal cavity and resonant tunneling diode. , 2016, , .		4
102	Asymmetrical conductance model to analyze resonant tunneling diode terahertz oscillators. , 2017, , .		4
103	Highly Stable Terahertz Resonant Tunneling Diode Oscillator Coupled to Photonic-Crystal Cavity. , 2018, , .		4
104	Direct Terahertz Communications with Wireless and Fiber Links. , 2019, , .		4
105	Timing-Jitter Tolerant Nyquist Pulse for Terahertz Communications. Journal of Lightwave Technology, 2022, 40, 557-564.	4.6	4
106	Imaging Applications with a Single Resonant Tunneling Diode Transceiver in 300-GHz Band. , 2020, , .		4
107	Terahertz resonant tunneling diode systems for next generation wireless communication. , 2015, , .		3
108	Evolution from Air-Cladded to Effective-Medium-Cladded Dielectric Waveguides. , 2019, , .		3

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109	Integrated Luneburg and Maxwell Fisheye Lenses for the Terahertz Range. , 2019, , .		3
110	Near-field vertical coupling between terahertz photonic crystal waveguides. , 2019, , .		3
111	Broadband terahertz resonant tunnelling diode transmitter integrated with coplanar waveguide-fed slot ring antenna. Electronics Letters, 2021, 57, 1001-1003.	1.0	3
112	Structure dependence of oscillation characteristics of structure-simplified resonant-tunneling-diode terahertz oscillator. Applied Physics Express, 2022, 15, 042003.	2.4	3
113	Packaging of THz circuits using a HDPE lens and an impedance-matched carrier substrate. , 2015, , .		2
114	Photonic-crystal slab for terahertz-wave technology platform. Proceedings of SPIE, 2016, , .	0.8	2
115	Large capacity terahertz tag using photonic crystal slabs. , 2017, , .		2
116	Terahertz Wireless Communication using Resonant Tunneling Diodes and Practical Radio-over-Fiber Technology. , 2019, , .		2
117	Debris-free Low-stress High-speed Laser-assisted Dicing for Multi-layered MEMS. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 118-123.	0.1	2
118	Terahertz RTD Chip Backside-coupled to Photonic-crystal Waveguide. , 2021, , .		2
119	Quantitative evaluation of enhanced Er luminescence in GaAs-based two-dimensional photonic crystal nanocavities. Applied Physics Letters, 2020, 116, 181102.	3.3	2
120	Experimental Verification of Output Power Enhancement in Photonic-based 300-GHz Generation by Optical Pulse Compression. , 2021, , .		2
121	Lasing characteristics of two-dimensional photonic crystal slab lasers with a modified linear shaped donor-type point defect. , 0, , .		1
122	Trapping a terahertz wave in a photonic-crystal slab. , 2012, , .		1
123	Modulation schemes for resonant tunneling diodes to enhance the data-rate of wireless communications. , 2016, , .		1
124	Evolution of Rod Antennas for Integrated Terahertz Photonics. , 2018, , .		1
125	Terahertz Wireless CDMA Communication Using Resonant Tunneling Diodes. , 2019, , .		1
126	Polarization Responses of Terahertz Dielectric Rod Antenna Arrays. , 2019, , .		1

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127	Injection Locking of Resonant Tunneling Diode Oscillator Using Coherent Terahertz Pulses. , 2019, , .		1
128	Terahertz Information Tag System with Over-100-bit/s Reading Speed. , 2019, , .		1
129	Dispersion in broadband terahertz photonic crystal waveguides employing Bragg-mirror suppression. , 2020, , .		1
130	Terahertz Photonic Crystals and Their Device Applications. The Review of Laser Engineering, 2017, 45, 752.	0.0	1
131	Integrated Terahertz Tunneling Filter. , 2021, , .		1
132	50-Gbit/s Terahertz Communication using a Valley Photonic Crystal Waveguide. , 2020, , .		1
133	Resonant Tunneling Diode Array Oscillator Integrated with Slot-ring Antenna for Terahertz Wireless Communications. , 2020, , .		1
134	Advanced Terahertz Devices and Systems Toward 6G and Beyond. , 2021, , .		1
135	Compact high brightness radiation sources. AIP Conference Proceedings, 1996, , .	0.4	0
136	Performance analysis of QoS guarantees scheduling disciplines over scalable number of flows. , 0, , .		0
137	Ultimate low threshold and high efficiency calculated for GaInAsP microdisk injection lasers with optimum posts. , 0, , .		0
138	Fine fabrication of gainasp-inp photonic crystal by Hi/Xe ICP etching using electron beam resist mask. , 2004, , .		0
139	Introduction of photonic crystal structure into organic light-emitting diode. , 2005, 5624, 142.		0
140	Direct Fabrication of 2D Glass Photonic Crystals by Nanoimprint Lithography. , 0, , .		0
141	Demonstration of organic light-emitting diodes with photonic crystal on glass substrate fabricated by nanoimprint lithography. , 2005, , .		0
142	Spontaneous emission control by defect-free 2D photonic crystal slabs. , 2005, , .		0
143	Simultaneous inhibition and redistribution of spontaneous emission in 2D photonic crystal slabs. , 2006, 6127, 300.		0
144	Controlling spontaneous emission phenomena in defect-free 2D photonic crystals with quantum dots. , 2006, , .		0

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145	Light Emission from Quantum Dots embedded in a Photonic Double-Heterostructure Nanocavity. , 2007, , .		0
146	Cavity-Mode Light Emission in Silicon Photonic Nanocavities at Room Temperature. , 2007, , .		0
147	Spectral reflectance measurement of two-dimensional photonic nanocavities with embedded quantum dots. , 2008, , .		0
148	Enhanced light emission from silicon photonic crystal nanocavity. , 2008, , .		0
149	Temperature Dependence of Damage Thresholds in Silica Glasses with UV Laser. The Review of Laser Engineering, 2010, 38, 620-623.	0.0	0
150	Enhancement of light emission from silicon by a photonic crystal nanocavity and high-pressure water vapor annealing. , 2010, , .		0
151	Photocurrent enhancement in ultrathin silicon by the photonic band-edge effect. , 2012, , .		0
152	Enhancement of optical absorption in solar cells by band-edge effect of photonic crystals. I — Formation of multiple bandedges. , 2013, , .		0
153	Terahertz-wave absorbers using a photonic crystal slab. , 2013, , .		0
154	Terahertz systems based on resonant tunneling diodes and photonic crystals. , 2017, , .		0
155	Packaged Dish Antenna for Wireless Terahertz Photonic Crystal Waveguide Devices. , 2021, , .		0
156	Waveforms with High Spectral Efficiency for Terahertz Communications. , 2021, , .		0
157	Effective Carrier Confinement in Microdisk Lasers by Strain Relaxation in Quantum Wells. , 2002, , .		0
158	Light Emission Control by Photonic Bandgap. The Review of Laser Engineering, 2006, 34, 761-766.	0.0	0
159	Current Status and Prospects of the Femtosecond Laser Processing. The Review of Laser Engineering, 2008, 36, 257-262.	0.0	0
160	Femtosecond-Laser-Induced Surface Texturing of Al-Si Alloy for Lower Friction Surface. The Review of Laser Engineering, 2014, 42, 341.	0.0	0
161	Effective-Medium-Cladded Dielectric Waveguides Towards Terahertz Integrated Platform. , 2020, , .		0
162	Terahertz Slab-Mode Beam Launchers using Photonic Crystal Waveguides and Integrated Optics. , 2020, , .		0

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163	Unclad Microphotonic Waveguide Bend. , 2020, , .		0
164	Communications with Terahertz Slab-Mode Beam. , 2020, , .		0
165	600-GHz-Band Frequency-Division Multiplexing Communication with Silicon Unclad Diplexer. , 2021, , .		0
166	Advanced Terahertz Devices Based on Photonic Crystal and Resonant Tunneling Diode. , 2021, , .		0
167	Enabling Device Technologies for Photonics-assisted Millimeter and Terahertz Wave Applications. , 2021, , .		0