Yuji Oki

List of Publications by Year
in descending order

168 papers	1,202 citations	471509 17 h-index	454955 30 g-index
168 all docs	168 docs citations	168 times ranked	1040 citing authors

#	Article	IF	Citations
1	Multiwavelength distributed-feedback dye laser array and its application to spectroscopy. Optics Letters, 2002, 27, 1220.	3.3	90
2	Electroluminescence from completely horizontally oriented dye molecules. Applied Physics Letters, 2016, 108, .	3.3	73
3	Fabrication of a distributed-feedback dye laser with a grating structure in its plastic waveguide. Applied Optics, 2002, 41, 5030.	2.1	58
4	Wide-Wavelength-Range Operation of a Distributed-Feedback Dye Laser with a Plastic Waveguide. Japanese Journal of Applied Physics, 2002, 41, 6370-6374.	1.5	52
5	Long lifetime and high repetition rate operation from distributed feedback plastic waveguided dye lasers. Optics Communications, 2002, 214, 277-283.	2.1	52
6	Ultrashort pulse generation from an integrated single-chip dye laser. IEEE Journal of Quantum Electronics, 1997, 33, 2146-2149.	1.9	41
7	Waveguide dye laser including a SiO2 nanoparticle-dispersed random scattering active layer. Applied Physics Letters, 2005, 86, 151123.	3.3	38
8	On-chip, high-sensitivity temperature sensors based on dye-doped solid-state polymer microring lasers. Applied Physics Letters, 2017, 111, .	3.3	37
9	Extreme ultra-low lasing threshold of full-polymeric fundamental microdisk printed with room-temperature atmospheric ink-jet technique. Scientific Reports, 2015, 5, 10623.	3.3	31
10	Differential Absorption Lidar at 1.67 Âµm for Remote Sensing of Methane Leakage. Japanese Journal of Applied Physics, 1999, 38, 110-114.	1.5	30
11	Thin-Layer Ablation of Metals and Silicon by Femtosecond Laser Pulses for Application to Surface Analysis. Japanese Journal of Applied Physics, 2000, 39, 6277-6280.	1.5	28
12	Carbonâ€“polydimethylsiloxane-based integratable optical technology for spectroscopic analysis. Talanta, 2017, 166, 428-432.	5.5	28
13	Extremely sensitive Na detection in pure water by laser ablation atomic fluorescence spectroscopy. Optics Communications, 1997, 133, 123-128.	2.1	26
14	Highly photo-stable dye doped solid-state distributed-feedback (DFB) channeled waveguide lasers by a pen-drawing technique. Optics Express, 2010, 18, 22080.	3.4	25
15	Wavelength sensitive photodiodes in the visible based on J-type aggregated films patterned by inkjet method. Organic Electronics, 2011, 12, 405-410.	2.6	24
16	Fundamental characteristics of degradation- recoverable solid-state DFB polymer laser. Optics Express, 2012, 20, 4690.	3.4	24
17	Tunable Ultrashort Pulse Generation from a Waveguided Laser with Premixed-Dye-Doped Plastic Film. Japanese Journal of Applied Physics, 1998, 37, 6403-6407.	1.5	21
18	Laser-induced-fluorescence detection of sodium atomized by a microwave-induced plasma with tungsten filament vaporization. Analytical Chemistry, 1990, 62, 680-683.	6.5	19

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19	Sensitive detection of trace elements in pure water by laser-induced atomic fluorescence spectroscopy in microwave discharge atomization. Analytical Chemistry, 1993, 65, 2096-2101.	6.5	19
20	Effects of edge inclination angles on whispering-gallery modes in printable wedge microdisk lasers. Optics Express, 2018, 26, 233.	3.4	17
21	Trace element analysis by laser ablation atomic fluorescence spectroscopy. Optics Communications, 1994, 110, 298-302.	2.1	16
22	Development of Quasi-End-Fired Waveguide Plastic Dye Laser. IEEE Journal of Quantum Electronics, 2006, 42, 389-396.	1.9	16
23	Spectral-resolving capable and integratable multilayered conductive films via an inkjet method. Journal of Materials Chemistry C, 2013, 1, 1739.	5.5	16
24	Demonstration of versatile whispering-gallery micro-lasers for remote refractive index sensing. Optics Express, 2018, 26, 5800.	3.4	16
25	Nonlinear Raman spectroscopy without tunable laser for sensitive gas detection in the atmosphere. Optics Communications, 1999, 161, 57-62.	2.1	15
26	Spectroscopic Applications of Integrated Tunable Solid-State Dye Laser. Optical Review, 2005, 12, 301-306.	2.0	15
27	Highly Efficient Long-Lifetime Dual-Layered Waveguide Dye Laser Containing SiO2Nanoparticle-Dispersed Random Scattering Active Media. Japanese Journal of Applied Physics, 2009, 48, 112503.	1.5	15
28	Highly photostable distributed-feedback polymer waveguide blue laser using spirobifluorene derivatives. Optical Materials, 2011, 33, 755-758.	3.6	15
29	Silk fibroin microspheres as optical resonators for wide-range humidity sensing and biodegradable lasers. Materials Chemistry Frontiers, 2021, 5, 5653-5657.	5.9	15
30	Removal of thin layer for trace element analysis of solid surface in subnanometer scale using laser-ablation atomic fluorescence spectroscopy. Applied Physics Letters, 1997, 71, 2916-2918.	3.3	13
31	Integration of Optical Pumped Dye Laser on Organic Microflowcytometry Chip. Molecular Crystals and Liquid Crystals, 2007, 463, 131/[413]-140/[422].	0.9	13
32	Sensitive H 2 Detection Using a New Technique of Photoacoustic Raman Spectroscopy. Japanese Journal of Applied Physics, 1997, 36, L1172-L1174.	1.5	11
33	UV-Laser Ablation Spectroscopy in Element Analysis of Solid Surface. Optical Review, 1998, 5, 242-246.	2.0	11
34	Nanometer-scale surface element analysis in polymers using laser ablation atomic fluorescence spectroscopy. Journal of Applied Physics, 2000, 87, 1029-1033.	2.5	11
35	Sensitive H_2 detection by use of thermal-lens Raman spectroscopy without a tunable laser. Optics Letters, 2000, 25, 1040.	3.3	11
36	Fully room temperature and label free biosensing based on an ink-jet printed polymer microdisk laser. Optical Materials Express, 2021, 11, 592.	3.0	11

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37	Development of Distributed-Feedback Tunable Blue-Violet Waveguide Plastic Laser Based on Fluorene Compound. Japanese Journal of Applied Physics, 2005, 44, 1759-1763.	1.5	10
38	Dipole orientation analysis without optical simulation: application to thermally activated delayed fluorescence emitters doped in host matrix. Scientific Reports, 2017, 7, 8405.	3.3	10
39	Dynamic control of reflective/diffusive optical surfaces on EGaIn liquid metal. Optical Materials Express, 2021, 11, 2099.	3.0	10
40	Development of Integrated Tunable Laser System for Laser Spectroscopy. Molecular Crystals and Liquid Crystals, 2004, 424, 55-63.	0.9	9
41	Patterning on Cyanine-Dye-Doped Conductive Polymer Films by Ink Jet Method. Japanese Journal of Applied Physics, 2010, 49, 010204.	1.5	9
42	Milk basic protein supplementation enhances fracture healing in mice. Nutrition, 2015, 31, 399-405.	2.4	9
43	Organic-inorganic hybrid microdisk laser with dye and silica mixed doping prepared by ink-jet printing method. Optics Express, 2018, 26, 7140.	3.4	9
44	Lasing characteristics of a pyrromethene597-doped microdisk laser fabricated by the ink-jet printing method. Japanese Journal of Applied Physics, 2019, 58, SJJC05.	1.5	9
45	Picosecond-Pulse-Pumped Distributed-Feedback Thick-Film Waveguide Blue Laser Using Fluorescent Brightener 135. Japanese Journal of Applied Physics, 2010, 49, 072105.	1.5	8
46	Optical bending sensor using distributed feedback solid state dye lasers on optical fiber. Optics Express, 2012, 20, 14938.	3.4	8
47	06 â€“ 16 THz band spectroscopy of organic thermally activated delayed fluorescence materials. Optical Materials Express, 2016, 6, 3045.	3.0	8
48	Gallium and polydimethylsiloxane molding for self-organized spherical lens surface fabrication. Applied Optics, 2017, 56, 9900.	1.8	8
49	Ink-jet printed, blended polymer-based microdisk resonators for controlling non-specific adsorption of biomolecules. Optics Letters, 2021, 46, 262.	3.3	8
50	Stackable spectral-sensitive conductive films based on cyanine aggregates via an inkjet method. Dyes and Pigments, 2013, 98, 333-338.	3.7	7
51	Fluorene-based chromophore for degradation-recoverable solid-state dye laser. Optical Materials Express, 2013, 3, 176.	3.0	7
52	Automatic wideâ€range scanning and calibration over 220â€“740 nm using a dye laser with a rapid cell exchanger. Review of Scientific Instruments, 1992, 63, 2927-2931.	1.3	6
53	Numerical simulation of a pulsed laser pumped distributed-feedback waveguided dye laser by coupled-wave theory. IEEE Journal of Quantum Electronics, 2003, 39, 673-680.	1.9	6
54	Development of a quasi-phase-matched, second-harmonic generation periodically poled lithium niobate waveguide with an integrated electro-optical modulator. Optics Letters, 2006, 31, 1492.	3.3	6

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55	Nanometer-Scale Depth Resolution and Sensitive Surface Analysis Using Laser Ablation Atomic Fluorescence Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, 5322-5325.	1.5	6
56	Enzyme-linked immunosorbent assay based on light absorption of enzymatically generated aniline oligomer: Flow injection analysis for 3-phenoxybenzoic acid with anti-3-phenoxybenzoic acid monoclonal antibody. Talanta, 2020, 218, 121102.	5.5	6
57	Investigation and modeling of UV band-pass-filtering white compound materials for potting or embedding in micro-optical applications. Optical Materials Express, 2019, 9, 1002.	3.0	6
58	Feasibility of nonlinear Raman lidar based on stimulated Raman gain spectroscopy without a tunable laser. Applied Optics, 2002, 41, 2328.	2.1	4
59	Distributed Feedback Waveguide Laser of Organic Nano-compound Material. Molecular Crystals and Liquid Crystals, 2007, 463, 173/[455]-183/[465].	0.9	4
60	Intensity Sensitive Organic Photodiodes Patterned by Inkjet Method. Molecular Crystals and Liquid Crystals, 2011, 538, 136-142.	0.9	4
61	In-Plane Anisotropic Molecular Orientation of Pentafluorene and Its Application to Linearly Polarized Electroluminescence. ACS Applied Materials & Interfaces, 2017, 9, 27054-27061.	8.0	4
62	Fluorescence lifetime elongation of thermally activated delayed fluorescence 4CzIPN molecules with encapsulation into zeolitic imidazole frameworks ZIF-11. Optical Materials Express, 2019, 9, 1150.	3.0	4
63	Controlling mobility speed of dye molecules in polydimethylsiloxane through molecular weight and solubility. Optical Materials Express, 2016, 6, 3417.	3.0	3
64	Carbon Dots Modification for Escherichia coli Detection: Variation of Colistin Sulphate Concentration. Oriental Journal of Chemistry, 2019, 35, 49-55.	0.3	3
65	0.5â€“4.5 THz band terahertz spectroscopy of thermally activated delayed fluorescence molecules. Optics Communications, 2020, 476, 126339.	2.1	3
66	3D printed silicone platforms with laser-scattering protein detection under flow analysis conditions as a development of Silicone Optical Technology (SOT). Microchemical Journal, 2020, 157, 104936.	4.5	3
67	Demonstration of on-chip quantum dot microcavity lasers in a molecularly engineered annular groove. Optics Letters, 2019, 44, 495.	3.3	3
68	Integration of Multiple-DFB Dye Lasers and Microflow-Channel on a Polymeric Chip. , 2008, , .		3
69	Flow-through optical device based on silicone optical technology (SOT) for determination of iron in drinkable tap water. Microchemical Journal, 2020, 157, 104897.	4.5	3
70	Laser Action of Nd-Complex-Doped Polymer Laser Based on Liquid. Molecular Crystals and Liquid Crystals, 2011, 539, 225/[565]-230/[570].	0.9	2
71	Medical Lasers on Wavelength Tables, and Their History. Nippon Laser Igakkaishi, 2012, 33, 142-151.	0.0	2
72	Q-switched fiber laser based on carbon nano wall saturable absorber. , 2015, , .		2

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73	Ultrathin sectioning with DUV-pulsed laser ablation: development of a laser ablation nano tome. Microscopy (Oxford, England), 2015, 64, 289-296.	1.5	2
74	Continuous cell culture monitoring using a compact microplate reader with a silicone optical technology-based spatial filter. Review of Scientific Instruments, 2019, 90, 035106.	1.3	2
75	Tunable and flexible deep-ultraviolet bandpass filters based on micro- and nanoparticle/polydimethylsiloxane hybrid membranes. Optical Materials, 2021, 115, 111073.	3.6	2
76	Polarization-dependent refractive index analysis for nanoporous microcavities by ray tracing of a propagating electromagnetic field. Optical Materials Express, 2021, 11, 2924.	3.0	2
77	3D printing optical devices based on silicone optical technology (SOT) and its application on analytical chemistry. , 2019, , .		2
78	Development of Laser-Induced Breakdown Spectroscopy System with a Palm-top Nd:YAG Laser. The Review of Laser Engineering, 2008, 36, 1269-1272.	0.0	2
79	Changes in optical characteristics induced by polymer blending in printed colloidal quantum dots microlasers. Optics Express, 2019, 27, 19615.	3.4	2
80	Narrow-bandpass transparent/diffusing materials using soft scattering based on dispersed refractive index difference. Optical Materials Express, 2022, 12, 738.	3.0	2
81	Solid phase dye molecular dispersion property of PDMS-based thermoplastic elastomer. Optical Materials Express, 2022, 12, 196.	3.0	2
82	Embedding Optical Microcavities in Nanoporous SiO₂ Film via Infill Inkjet Printing. Advanced Photonics Research, 2022, 3, .	3.6	2
83	Application of a selective laser ionization photodetector for detection of Raman scattering in flames. Optics Communications, 1993, 98, 67-71.	2.1	1
84	Geometrical Form Factor Improvement for Receiving System of Infrared Lidar. Optical Review, 1999, 6, 464-470.	2.0	1
85	Detection of Trace Molecules in the Atmosphere by Nonlinear Raman Spectroscopy without a Tunable Laser.. The Review of Laser Engineering, 1999, 27, 194-198.	0.0	1
86	Influence of Irradiation Wavelength on Atomic Emission Spectroscopy Using Laser Ablation. Japanese Journal of Applied Physics, 2001, 40, 2556-2557.	1.5	1
87	Development of a compact light source at 1.67 Î¼m for methane leak detection using DIAL. , 2001, , .		1
88	Proposal of waveguided PPLN SHG device with conversion efficiency modulator. , 2005, , .		1
89	Direct coupling of multi-color film dye lasers to a micro-flow-channel on a polymeric chip. , 2007, , .		1
90	Development of multicolor DFB dye laser by Transversal Quasi-Mode-Coupling method. , 2009, , .		1

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91	Development of print-like-fabrication techniques for distributed feedback solid state dye lasers with multiple-layered structure. , 2010, , .		1
92	Degradation recoverable DFB lasers based on P597:PDMS/PTFEMA. , 2011, , .		1
93	Printable DFB Laser and Wavelength Monitor Systems by On Demand Fabrication on Flexible Films. , 2011, , .		1
94	Low-threshold lasing from organic and polymeric microdisk printed by room temperature atmosphere ink-jet technique. , 2015, , .		1
95	Investigation of protein adsorption for biosensors based on ink-jet printed active microdisk resonator. , 2017, , .		1
96	Compact and on-demand 3D-printed optical device based on silicone optical technology (SOT) for on-site measurement: Application to flow injection analysis. Review of Scientific Instruments, 2019, 90, 104103.	1.3	1
97	Silicone Optical Technology: Quasi Spatial Filter and Its Application for Multichannel Absorption Analysis. , 2018, , .		1
98	Highly Transparent Organic Microdisk Cavity in Visible Range by the Ink-jet Printing Method. , 2018, , .		1
99	On-demand inkjet-printed microdisk laser with air cladding by liquid flow microetching. Applied Optics, 2020, 59, 6340.	1.8	1
100	Enhancement of sensitivity of optogalvanic spectroscopy in a flame by laser ionization. Optics Communications, 1994, 110, 105-108.	2.1	0
101	Sensitive Trace Gas Detection By Photoacoustic Raman Spectroscopy Without Tunable Laser. , 1997, , .		0
102	Remote sensing of methane differential absorption lidar at 1.67 /spl mu/m. , 1998, , .		0
103	Differential absorption lidar at 1.67 Î¼m for the detection of methane gas leakage. , 0, , .		0
104	Application of laser ablation atomic fluorescence spectroscopy for nanometer solid surface analysis. , 0, , .		0
105	Distributed feedback laser operation of dye doped plastic waveguide. , 0, , .		0
106	Proposal of nonlinear Raman lidar based on stimulated Raman gain spectroscopy without tunable laser. , 0, , .		0
107	Nanometer-scale surface element analysis using laser ablation atomic fluorescence spectroscopy. , 0, , .		0
108	Nonlinear Raman spectroscopy without tunable laser and application to lidar. , 2001, , .		0

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109	Polymer-based solid-state multi-strip dye lasers for laser spectroscopy without frequency scanning. , 0, , .		0
110	Trace element analysis of nanometer-scaled solid state surface by laser ablation atomic fluorescence spectroscopy. , 0, , .		0
111	End fired operation of plastic distributed feedback dye laser. , 0, , .		0
112	Blue and green laser using waveguided PPLN and laser diode. , 0, , .		0
113	Atogram Detection on Solid Surface Analysis Using Laser Ablation Atomic Spectroscopy. , 0, , .		0
114	Pumping profile control on Quasi-End-Fired waveguide DFB laser. , 0, , .		0
115	Development violet−green region of Distributed-Feedback Tunable Plastic Dye Lasers. , 0, , .		0
116	Direct fabrication of surface relief grating for integrated waveguide tunable dye lasers. , 0, , .		0
117	Atogram and nanometer trace element detection from solid surface by soft laser ablation atomic fluorescence spectroscopy. , 0, , .		0
118	Designing and development of waveguided QPM-SHG PPLN chip with integrated EO modulator. , 0, , .		0
119	Coupling control on quasi-end-fired DFB film dye laser on a plastic chip. , 2006, , .		0
120	High-peak power output from a waveguide dye laser based on a random active layer. , 2006, , .		0
121	Integration of plastic waveguide lasers on film and its application. , 2006, , .		0
122	Active control of the ablation plume for laser ablation atomic fluorescence spectroscopy. , 2006, , .		0
123	Modulatable and monolithic SHG waveguide based on PPLN and EO-phase-modulator. , 2007, , .		0
124	Highly efficient pico-second waveguide dye laser based on a random active medium. , 2007, , .		0
125	Development of Compact 473nm Laser Using Intra-Cavity SHG with Short-PPSLT. , 2007, , .		0
126	Diagnostics of Scattering Atoms for High Sensitive Spectroscopy Using Low-Fluence Laser Ablation. The Review of Laser Engineering, 2008, 36, 206-210.	0.0	0

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127	Integration of tunable DFB solid-state dye lasers on PDMS chip with flowchannels. , 2009, , .		0
128	Wavelength sensitive organic photo-diodes for integrated lasers by ink-jet method. , 2009, , .		0
129	Development of print-like-fabrication techniques for solid-state & dual-core-waveguide DFB dye lasers. , 2009, , .		0
130	Durable & printable blue-violet DFB solid-state dye lasers using spirobifluorene derivatives. , 2009, , .		0
131	Spectroscopic properties of J-aggregated cyanine in micro-sized film by ink-jet spotting. , 2010, , .		0
132	Wavelength resolution improvement on organic photodiodes made by ink-jet technique. , 2010, , .		0
133	A distributed-feedback organic waveguide blue laser using spirobifluorene derivatives. , 2010, , .		0
134	Tunable waveguide dye laser on a plastic optical fiber. , 2010, , .		0
135	Monochromatic Organic Photodiodes Made by Stackable Ink-jet Fabrication for Integrated Laser Chips. , 2011, , .		0
136	Printable laser system on a film and an optical fiber. , 2012, , .		0
137	Degradation self-recovery and durability extension on solid-state dye laser in blue region. , 2013, , .		0
138	Absorbance-meter constructed by PDMS. , 2015, , .		0
139	Spectroscopic behavior in whispering-gallery modes by edge formation of printed microdisk lasers. Proceedings of SPIE, 2015, , .	0.8	0
140	Highly efficient organic light-emitting diodes with completely oriented delayed fluorescent emitters. , 2017, , .		0
141	THz absorption measurement and calculation of organic thermally activated delayed fluorescence materials. , 2017, , .		0
142	Water-like-refractive-index microdisk cavity by the ink-jet printing method. , 2017, , .		0
143	Lasing from Printable Organic-Inorganic Microdisk Cavity with Mixed Doping of Laser Dye and ZnO. , 2018, , .		0
144	Ink-jet printed, blended polymer-based microdisk resonators for controlling non-specific adsorption of biomolecules: publisherâ€™s note. Optics Letters, 2021, 46, 3070.	3.3	0

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145	Laser pulse measurement by four wave mixing. The Review of Laser Engineering, 2001, 29, 141-141,147.	0.0	0
146	Incorporable DFB dye lasers for micro-flow-channels on a polymeric chip. , 2008, , .		0
147	High Efficient Laser Action by Nd3+ Complex. , 2011, , .		0
148	Direct Laser fabrication on Polymeric Optical Fiber and Its Sensor Application. , 2011, , .		0
149	Solid-State Polymer Waveguide DFB Laser with Self Dye-Circulatory Function. , 2011, , .		0
150	Development of Integratable Laser for Optofluidic Chip. The Review of Laser Engineering, 2012, 40, 952.	0.0	0
151	Nd3+-TFA:HPDA Polymeric Microchip Laser. , 2012, , .		0
152	Preface to Topical Papers on Optofl uidics: Integration of Microphotonics and Microfl owcytometry. The Review of Laser Engineering, 2012, 40, 911.	0.0	0
153	Micro-dispensing for three-dimensional direct fabrication of laser waveguides. , 2013, , .		0
154	A maintenance-free TEA nitrogen laser for analytical spectroscopy.. The Review of Laser Engineering, 1990, 18, 79-83.	0.0	0
155	A full-automaic tunable dye-laser system with a rapid dye-exchanger.. The Review of Laser Engineering, 1991, 19, 192-200.	0.0	0
156	Efficiencies of Laser Dyes for Atomic Vapor Laser Isotope Separation.. The Review of Laser Engineering, 1995, 23, 752-761.	0.0	0
157	Tunable Solid-state Laser. Expansion of Tunable Range of Pulsed Ti: sapphire Lasers by Nonlinear Optical Techniques.. The Review of Laser Engineering, 1995, 23, 828-837.	0.0	0
158	On-Demand Fabrication of Micro-Wired Rods and Nano-Coupling Control for 3D Polymeric Optical System. , 2015, , .		0
159	Ultra-low Threshold Lasing at 0.8 Î¼m from Organic Microdisk Cavity by the Ink-jet Printing Method. , 2016, , .		0
160	6.3 eV DUV Generation Based on Microchip Nd:YAG Laser. , 2017, , .		0
161	Silica-based Inorganic Microdisk Cavity by the Ink-jet Printing Method. , 2017, , .		0
162	Novel spectroscopic transparent/scattering material for 260/280nm ultraviolet optical detection. , 2018, , .		0

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163	On-demand lens fabrication by liquid phase molding with gallium and Polydimethylsiloxane. , 2018, , .		0
164	Improvement of lasing threshold of ink-jet printed polymeric microdisk cavity by precise controlled wet etching. , 2019, , .		0
165	Development of ultraviolet down conversion filters based on scattering filter materials. , 2020, , .		0
166	Fully room temperature bio-sensing using active microdisk fabricated by ink-jet printing method. , 2020, , .		0
167	Direct-printing Method of Waveguide and Flow-channel on Transparent Nano-porous SiO2 Film. , 2020, , .		0
168	Effect of Edge Angle of Ink-Jet Printed Microdisk Lasers on Mode Shift Due to Protein Adsorption. , 2020, , .		0