

Timo Mappes

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,602
citations

331670

21
h-index

315739

38
g-index

61
all docs

61
docs citations

61
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Optofluidic dye laser in a foil. Optics Express, 2010, 18, 9280.	3.4	184
2	Lipid multilayer gratings. Nature Nanotechnology, 2010, 5, 275-279.	31.5	98
3	Plastic lab-on-a-chip for fluorescence excitation with integrated organic semiconductor lasers. Optics Express, 2011, 19, 8179.	3.4	95
4	High-Q conical polymeric microcavities. Applied Physics Letters, 2010, 96, 013303.	3.3	91
5	Direct laser writing for active and passive high-Q polymer microdisks on silicon. Optics Express, 2011, 19, 11451.	3.4	90
6	Polymeric photonic molecule super-mode lasers on silicon. Light: Science and Applications, 2013, 2, e82-e82.	16.6	84
7	Low-threshold conical microcavity dye lasers. Applied Physics Letters, 2010, 97, .	3.3	82
8	Continuously tunable solution-processed organic semiconductor DFB lasers pumped by laser diode. Optics Express, 2012, 20, 6357.	3.4	78
9	Low-cost label-free biosensors using photonic crystals embedded between crossed polarizers. Optics Express, 2010, 18, 19120.	3.4	65
10	On-chip microlasers for biomolecular detection via highly localized deposition of a multifunctional phospholipid ink. Lab on A Chip, 2013, 13, 2701.	6.0	53
11	Integration of organic semiconductor lasers and single-mode passive waveguides into a PMMA substrate. Microelectronic Engineering, 2010, 87, 693-695.	2.4	48
12	All-polymer organic semiconductor laser chips:â€”Parallel fabrication and encapsulation. Optics Express, 2010, 18, 24881.	3.4	44
13	Submicron polymer structures with X-ray lithography and hot embossing. Microsystem Technologies, 2008, 14, 1721-1725.	2.0	42
14	The Invention of Immersion Ultramicroscopy in 1912â€”The Birth of Nanotechnology?. Angewandte Chemie - International Edition, 2012, 51, 11208-11212.	13.8	39
15	Organic semiconductor distributed feedback (DFB) laser as excitation source in Raman spectroscopy. Optics Express, 2013, 21, 28941.	3.4	37
16	Largeâ€”Scale Parallel Surface Functionalization of Gobletâ€”Type Whispering Gallery Mode Microcavity Arrays for Biosensing Applications. Small, 2014, 10, 3863-3868.	10.0	36
17	Voltage-controlled tuning of an organic semiconductor distributed feedback laser using liquid crystals. Applied Physics Letters, 2011, 99, 023307.	3.3	32
18	Optical imaging of post-embryonic zebrafish using multi orientation raster scan optoacoustic mesoscopy. Light: Science and Applications, 2017, 6, e16186-e16186.	16.6	28

#	ARTICLE	IF	CITATIONS
19	Ink-Jet-Printed Organic Semiconductor Distributed Feedback Laser. <i>Applied Physics Express</i> , 2012, 5, 072101.	2.4	26
20	Design for optimized coupling of organic semiconductor laser light into polymer waveguides for highly integrated biophotonic sensors. <i>Microelectronic Engineering</i> , 2009, 86, 1499-1501.	2.4	25
21	Strongly confined, low-threshold laser modes in organic semiconductor microgoblets. <i>Optics Express</i> , 2011, 19, 10009.	3.4	22
22	Densely Packed Microgoblet Laser Pairs for Cross-Referenced Biomolecular Detection. <i>Advanced Science</i> , 2015, 2, 1500066.	11.2	22
23	X-ray lithography for devices with high aspect ratio polymer submicron structures. <i>Microelectronic Engineering</i> , 2007, 84, 1235-1239.	2.4	21
24	Design of plasmonic grating structures towards optimum signal discrimination for biosensing applications. <i>Optics Express</i> , 2012, 20, 11357.	3.4	21
25	Process conditions in X-ray lithography for the fabrication of devices with sub-micron feature sizes. <i>Microsystem Technologies</i> , 2006, 13, 355-360.	2.0	20
26	Diffusion driven optofluidic dye lasers encapsulated into polymer chips. <i>Lab on A Chip</i> , 2012, 12, 3734.	6.0	20
27	Selective plane illumination optical and optoacoustic microscopy for postembryonic imaging. <i>Laser and Photonics Reviews</i> , 2015, 9, L29.	8.7	20
28	Flexible coupling of high-Q goblet resonators for formation of tunable photonic molecules. <i>Optics Express</i> , 2012, 20, 22012.	3.4	18
29	Pump spot size dependent lasing threshold in organic semiconductor DFB lasers fabricated via nanograting transfer. <i>Optics Express</i> , 2013, 21, 27697.	3.4	18
30	Efficient free-space read-out of WGM lasers using circular micromirrors. <i>Optics Express</i> , 2015, 23, 1025.	3.4	15
31	High-Q polymer resonators with spatially controlled photo-functionalization for biosensing applications. <i>Applied Physics Letters</i> , 2013, 102, 121108.	3.3	13
32	A compound microfluidic device with integrated optical waveguides. , 2008, , .		12
33	Organic semiconductor distributed feedback laser pixels for lab-on-a-chip applications fabricated by laser-assisted replication. <i>Faraday Discussions</i> , 2014, 174, 153-164.	3.2	12
34	Diode-Pumped Organic Semiconductor Microcone Laser. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 489-491.	2.5	11
35	Hot embossing of photonic crystal polymer structures with a high aspect ratio. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 025017.	2.6	10
36	Nanograting transfer for light extraction in organic light-emitting devices. <i>Applied Physics Letters</i> , 2011, 98, 143105.	3.3	9

#	ARTICLE	IF	CITATIONS
37	Optical spectroscopy with organic semiconductor lasers. Proceedings of SPIE, 2010, , .	0.8	8
38	Process conditions for the fabrication of subwavelength scale structures by x-ray lithography in PMMA films. , 2004, , .		7
39	Fluorescence excitation on monolithically integrated all-polymer chips. Journal of Biomedical Optics, 2010, 15, 041517.	2.6	7
40	Modular Optoelectronic Microfluidic Backplane for Fluid Analysis Systems. Journal of Microelectromechanical Systems, 2013, 22, 462-470.	2.5	6
41	Fabrication of RF MEMS variable capacitors by deep X-ray lithography and electroplating. Microsystem Technologies, 2006, 13, 343-347.	2.0	5
42	Submicron-scale surface acoustic wave resonators fabricated by high aspect ratio X-ray lithography and aluminum lift-off. Microsystem Technologies, 2008, 14, 1715-1719.	2.0	4
43	Stiction issues and actuation of RF LIGA-MEMS variable capacitors. Microsystem Technologies, 2008, 14, 1709-1714.	2.0	4
44	Integrated photonic lab-on-chip systems for biomedical applications. Proceedings of SPIE, 2010, , .	0.8	4
45	X-ray fabrication of SAW resonators with narrow electrodes in thick high-aspect-ratio polymer templates. Journal of Micromechanics and Microengineering, 2010, 20, 075031.	2.6	4
46	Polymer biophotonic lab-on-chip devices with integrated organic semiconductor lasers. Proceedings of SPIE, 2009, , .	0.8	3
47	A modular microfluidic backplane for control and interconnection of optofluidic devices. , 2011, , .		2
48	On-chip integrated lasers for biophotonic applications. , 2012, , .		2
49	Organic semiconductor distributed feedback laser as excitation source in Raman spectroscopy using free-beam and fibre coupling. Proceedings of SPIE, 2014, , .	0.8	2
50	Polymer biophotonic lab-on-a-chip with integrated organic semiconductor lasers. SPIE Newsroom, 2009, , .	0.1	1
51	Highly integrated biophotonics towards all-organic lab-on-chip systems. Proceedings of SPIE, 2010, , .	0.8	1
52	Integration of organic semiconductor lasers and waveguides into PMMA based microfluidic lab-on-a-chip systems. , 2011, , .		1
53	Biophotonic fluorescence excitation with integrated polymer waveguides. Proceedings of SPIE, 2010, , .	0.8	0
54	Integrated lasers for polymer based lab-on-a-chip systems. , 2011, , .		0

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55	Integrated Lasers for Polymer Lab-on-a-Chip Systems. , 2012, , .		0
56	Surface-Enhanced Raman Spectroscopy (SERS) using Nanopillar Arrays as Functional Substrates and an Organic Semiconductor DFB Laser as Excitation Source. , 2014, , .		0
57	Polymeric Whispering Gallery Mode Resonators for Biosensing Applications. , 2014, , .		0
58	Imaging of post-embryonic stage model organisms at high resolution using multi-orientation optoacoustic mesoscopy. , 2017, , .		0
59	Vertically Stacked All-Polymer Whispering-Gallery Mode Lasers for Biosensing Applications. , 2015, , .		0
60	Phospholipid-functionalized microgoblet lasers for biomolecular detection. , 2015, , .		0