

Kari Tapio Niemi

List of Publications by Year in descending order

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53
papers

1,074
citations

430874

18
h-index

414414

32
g-index

53
all docs

53
docs citations

53
times ranked

1371
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive FDTD modelling of photonic crystal waveguide components. Optics Express, 2004, 12, 234.	3.4	176
2	Limitations of phase-shift method in measuring dense group delay ripple of fiber Bragg gratings. IEEE Photonics Technology Letters, 2001, 13, 1334-1336.	2.5	100
3	Aluminum doped zinc oxide films grown by atomic layer deposition for organic photovoltaic devices. Solar Energy Materials and Solar Cells, 2010, 94, 1379-1383.	6.2	78
4	Nanostructured broadband antireflection coatings on AlInP fabricated by nanoimprint lithography. Solar Energy Materials and Solar Cells, 2010, 94, 1845-1848.	6.2	75
5	Perfect magnetic mirror and simple perfect absorber in the visible spectrum. Physical Review B, 2015, 91, .	3.2	52
6	Applications of UV-nanoimprint soft stamps in fabrication of single-frequency diode lasers. Microelectronic Engineering, 2009, 86, 321-324.	2.4	51
7	Moth-eye antireflection coating fabricated by nanoimprint lithography on 1% dilute nitride solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 1158-1162.	8.1	38
8	Polarization-mode dispersion of large mode-area photonic crystal fibers. Optics Communications, 2003, 226, 233-239.	2.1	34
9	Fabrication of surface reliefs on facets of singlemode optical fibres using nanoimprint lithography. Electronics Letters, 2007, 43, 150.	1.0	26
10	Focusing effect of a graded index photonic crystal lens. Optics Communications, 2011, 284, 3140-3143.	2.1	26
11	New method to improve the accuracy of group delay measurements using the phase-shift technique. Optics Communications, 2002, 204, 119-126.	2.1	22
12	All-Metal Broadband Optical Absorbers Based on Block Copolymer Nanolithography. ACS Applied Materials & Interfaces, 2018, 10, 42941-42947.	8.0	22
13	High molecular weight block copolymer lithography for nanofabrication of hard mask and photonic nanostructures. Journal of Colloid and Interface Science, 2019, 534, 420-429.	9.4	22
14	Single-step fabrication of luminescent GaAs nanocrystals by pulsed laser ablation in liquids. Optical Materials Express, 2012, 2, 799.	3.0	21
15	Block Copolymer Patterning for Creating Porous Silicon Thin Films with Tunable Refractive Indices. ACS Applied Materials & Interfaces, 2017, 9, 31260-31265.	8.0	21
16	Tunable silicon etalon for simultaneous spectral filtering and wavelength monitoring of a DWDM transmitter. IEEE Photonics Technology Letters, 2001, 13, 58-60.	2.5	19
17	Nanoperforated silicon membranes fabricated by UV-nanoimprint lithography, deep reactive ion etching and atomic layer deposition. Journal of Micromechanics and Microengineering, 2010, 20, 077001.	2.6	19
18	Broadband infrared mirror using guided-mode resonance in a subwavelength germanium grating. Optics Letters, 2010, 35, 2564.	3.3	19

#	ARTICLE	IF	CITATIONS
19	Coating of gold nanoparticles made by pulsed laser ablation in liquids with silica shells by simultaneous chemical synthesis. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3047-3051.	2.8	19
20	High Spectral Purity High-Power GaSb-Based DFB Laser Fabricated by Nanoimprint Lithography. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1233-1236.	2.5	17
21	Inhomogeneities in the nonlinear tensorial responses of arrays of gold nanodots. <i>New Journal of Physics</i> , 2008, 10, 013001.	2.9	16
22	Photoconductivity of thin organic films. <i>Applied Surface Science</i> , 2010, 256, 3900-3905.	6.1	16
23	Hybrid waveguide-surface plasmon polariton modes in a guided-mode resonance grating. <i>Optics Communications</i> , 2012, 285, 4381-4386.	2.1	16
24	Automated solvent vapor annealing with nanometer scale control of film swelling for block copolymer thin films. <i>Soft Matter</i> , 2019, 15, 7909-7917.	2.7	16
25	Infrared Pulsed Laser Deposition of Niobium Nitride Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 143-146.	1.7	14
26	Effects of dispersion on nonlinearity measurement of optical fibers. <i>Optical Fiber Technology</i> , 2005, 11, 278-285.	2.7	12
27	Morphology evolution of PS- b -PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates. <i>Microelectronic Engineering</i> , 2018, 192, 1-7.	2.4	12
28	Soft stamp ultraviolet-nanoimprint lithography for fabrication of laser diodes. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2009, 8, 033004.	0.9	11
29	Narrow linewidth templates for nanoimprint lithography utilizing conformal deposition. <i>Nanotechnology</i> , 2008, 19, 015302.	2.6	10
30	Nanoimprint Lithography - Next Generation Nanopatterning Methods for Nanophotonics Fabrication. , , ,		9
31	Temperature-tunable silicon-wafer etalon for frequency chirp measurements. <i>Microwave and Optical Technology Letters</i> , 1999, 20, 190-192.	1.4	8
32	Soft stamp UV-nanoimprint lithography for fabrication of laser diodes. <i>Proceedings of SPIE</i> , 2009, , ,	0.8	8
33	Pulsed laser deposition of yttria-stabilized zirconium dioxide with high repetition rate picosecond fiber laser. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 487-490.	2.3	8
34	Wavelength reference for optical telecommunications based on a temperature-tunable silicon etalon. <i>Review of Scientific Instruments</i> , 2003, 74, 3620-3623.	1.3	7
35	Large-area nanoporous SiN membranes for optical and mechanical filtering. <i>Microelectronic Engineering</i> , 2010, 87, 1620-1622.	2.4	7
36	Effect of ZnO Addition and of Alpha Particle Irradiation on Various Properties of Er ³⁺ , Yb ³⁺ Doped Phosphate Glasses. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1094.	2.5	7

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37	Laterally-coupled distributed feedback InGaSb/GaSb diode lasers fabricated by nanoimprint lithography. Electronics Letters, 2010, 46, 1146.	1.0	6
38	Selective growth experiments on gallium arsenide (100) surfaces patterned using UV-nanoimprint lithography. Microelectronics Journal, 2006, 37, 1477-1480.	2.0	5
39	Enhancement of second-harmonic generation from silicon nitride with gold gratings. Optics Express, 2015, 23, 30695.	3.4	5
40	Effect of optical filtering on pulses generated with a gain-switched DFB laser. Optics Communications, 2001, 192, 339-345.	2.1	4
41	Device for frequency chirp measurements of optical transmitters in real time. Review of Scientific Instruments, 2002, 73, 1103-1107.	1.3	4
42	High quality InP nanopyramidal frusta on Si. CrystEngComm, 2014, 16, 4624-4632.	2.6	4
43	Picosecond pulse laser ablation of yttria-stabilized zirconia from kilohertz to megahertz repetition rates. Applied Physics A: Materials Science and Processing, 2010, 101, 735-738.	2.3	3
44	Selective area heteroepitaxy through nanoimprint lithography for large area InP on Si. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1610-1613.	0.8	3
45	Topology-optimized and dispersion-tailored photonic crystal slow-light devices. Proceedings of SPIE, 2007, , .	0.8	2
46	Site-controlled InAs quantum dot chains coupled to surface plasmons. Optica, 2016, 3, 139.	9.3	2
47	Longitudinally single mode laser-diode fabricated with Nanoimprint Lithography. , 2008, , .		1
48	Three-grating monolithic phase-mask for the single-order writing of large-period gratings. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	1
49	Scalability of a Metropolitan Bidirectional Multifiber WDM-Ring Network. Photonic Network Communications, 2001, 3, 349-362.	2.7	0
50	Optimization and applications of planar silicon-based photonic crystal devices. , 2005, , .		0
51	Role of local fields and defects in the nonlinear response of metal nanostructures. Proceedings of SPIE, 2008, , .	0.8	0
52	Selective area heteroepitaxy of InP nanopyramidal frusta on Si for nanophotonics. , 2012, , .		0
53	Metal/Polymer Back Reflectors with Diffraction Gratings for Light Trapping in III-V Solar Cells. , 2018, , .		0