

Jean-emmanuel Broquin

List of Publications by Year in descending order

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83
papers

709
citations

567281

15
h-index

610901

24
g-index

83
all docs

83
docs citations

83
times ranked

588
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Photonics on Glass: A Review of the Ion-Exchange Technology Achievements. Applied Sciences (Switzerland), 2021, 11, 4472.	2.5	19
2	Wideband polymer/Si/SiN fiber coupler for datacom integrated photonic circuits. , 2020, , .		0
3	Reliability Characterization and Modeling of High Speed Ge Photodetectors. IEEE Transactions on Device and Materials Reliability, 2019, 19, 688-695.	2.0	1
4	Full Experimental Determination of the Optical and Magneto-Optical Characteristics of a Hybrid Glass Waveguide Covered by a Magnetic Nanoparticles Doped Sol-gel Layer. Journal of Lightwave Technology, 2019, 37, 780-787.	4.6	2
5	Microsensing of plutonium with a glass optofluidic device. Optical Engineering, 2019, 58, 1.	1.0	3
6	Heterogeneous integration of KY(WO ₄) ₂ -on-glass: a bonding study. OSA Continuum, 2019, 2, 2065.	1.8	5
7	Glass dual-mode laser for radio-frequency carrier generation. , 2019, , .		0
8	Integrated Optics DFB Lasers On Glass For High Radio-Frequency Generation. , 2018, , .		0
9	Tunability of Millimeter Wave Carriers Generated by Optically mixing Two DFB Lasers on Glass. , 2018, , .		2
10	Hybrid integration of 300nm-thick LiNbO ₃ films on ion-exchanged glass waveguides for efficient nonlinear integrated devices. , 2018, , .		1
11	Thermal coupling impact on an MMW carrier generated using two free-running DFB lasers on glass. Optics Letters, 2018, 43, 5500.	3.3	4
12	Cost Effective Laser Structuration of Optical Waveguides on Thin Glass Interposer. Journal of Lightwave Technology, 2017, 35, 4445-4450.	4.6	0
13	Development of an Opto-fluidic Microsystem Dedicated to Chemical Analysis in a Nuclear Environment. Procedia Chemistry, 2016, 21, 453-460.	0.7	3
14	Realization of back-side heterogeneous hybrid III-V/Si DBR lasers for silicon photonics. , 2016, , .		3
15	Design of a waveguide with optics axes tilted by 45° and realized by ion-exchange on glass. , 2016, , .		0
16	A study of the annual performance of bifacial photovoltaic modules in the case of vertical facade integration. Energy Science and Engineering, 2016, 4, 52-68.	4.0	42
17	High concentration Yb-Er co-doped phosphate glass for optical fiber amplification. Journal of Optics (United Kingdom), 2015, 17, 065705.	2.2	34
18	High confinement ion-exchanged waveguides for nonlinear applications. Ceramics International, 2015, 41, 8034-8039.	4.8	2

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19	Narrow-linewidth Q-switched DBR laser on Ytterbium-doped glass. <i>Ceramics International</i> , 2015, 41, 8650-8654.	4.8	8
20	Development of Tl ⁺ /Na ⁺ ion-exchanged single-mode waveguides on silicate glass for visible-blue wavelengths applications. <i>Ceramics International</i> , 2015, 41, 7996-8001.	4.8	7
21	Hybrid erbium-doped DFB waveguide laser made by wafer bonding of two ion-exchanged glasses. <i>Ceramics International</i> , 2015, 41, 7466-7470.	4.8	8
22	Observation of Raman scattering in glass integrated waveguides: a route towards supercontinuum generation. , 2014, , .		0
23	Buried channel waveguides for nulling interferometry in 6–20 μm spectral range: Fabrication and preliminary testing. , 2014, , .		0
24	Efficient magneto-optical mode converter on glass. , 2014, , .		0
25	Integrated Broadband Polarization Splitters Made by Ion-Exchange on Glass. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2373-2376.	2.5	4
26	Low cross-talk polarization splitter on glass. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
27	Magneto-optical mode conversion in a hybrid glass waveguide made by sol-gel and ion-exchange techniques. , 2012, , .		2
28	Broad-area laser diode with stable single-mode output and wavelength stabilization. , 2012, , .		1
29	1.55 μ m hybrid waveguide laser made by ion-exchange and wafer bonding. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
30	Spectroscopic Investigation of Structural Rearrangements in Silver Ion-Exchanged Silicate Glasses. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3757-3764.	3.1	62
31	Vertically Integrated Broadband Duplexer for Erbium-Doped Waveguide Amplifiers Made by Ion Exchange on Glass. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 648-650.	2.5	14
32	Hybrid magneto-optical mode converter made with a magnetic nanoparticles-doped SiO ₂ /ZrO ₂ layer coated on an ion-exchanged glass waveguide. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	27
33	Fully compatible magneto-optical sol-gel material with glass waveguides technologies: application to mode converters. , 2011, , .		2
34	1 kW peak power passively Q-switched Nd ³⁺ -doped glass integrated waveguide laser. <i>Optics Letters</i> , 2011, 36, 1987.	3.3	19
35	Realization of single-mode telluride rib waveguides for mid-IR applications between 10 and 20 μ m. <i>Optics Letters</i> , 2011, 36, 2922.	3.3	32
36	Integrated optics dissipative soliton mode-locked laser on glass. , 2011, , .		0

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37	Waveguides based on TeGe thick films for spatial interferometry. , 2010, , .		0
38	Magnetic nanoparticles-doped silica layer reported on ion-exchanged glass waveguide: towards integrated magneto-optical devices. Proceedings of SPIE, 2010, , .	0.8	6
39	980nm-1550nm vertically integrated duplexer for hybrid erbium-doped waveguide amplifiers on glass. Proceedings of SPIE, 2009, , .	0.8	1
40	Development of a ion-exchanged glass integrated optics DFB laser for a LIDAR application. , 2009, , .		0
41	Direct bonding conditions of ferrite garnet layer on ion-exchanged glass waveguides. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2313-2316.	1.8	6
42	Hybrid Neodymium-doped passively Q-switched waveguide laser. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 181-184.	3.5	24
43	Study of deeply buried waveguides: A way towards 3D integration. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 185-189.	3.5	26
44	Study of Ag ⁺ /Na ⁺ ion-exchange diffusion on germanate glasses: Realization of single-mode waveguides at the wavelength of 1.55µm. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 190-194.	3.5	8
45	Integrated optics for nulling interferometry in the thermal infrared. Proceedings of SPIE, 2008, , .	0.8	2
46	Hybrid Nd ³⁺ -doped passively Q-switched waveguide laser made by ion exchange. , 2008, , .		0
47	Realization of Ag ⁺ /Na ⁺ ion-exchanged surface and buried waveguides on germanate glasses. Proceedings of SPIE, 2008, , .	0.8	0
48	Glass integrated optics: state of the art and position toward other technologies. , 2007, , .		27
49	Three-dimensional integration of passive functions on glass by means of selectively buried waveguides and multiple ion-exchanges. , 2007, , .		0
50	Transmission behaviors of single mode hollow metallic waveguides dedicated to mid-infrared nulling interferometry. Optics Express, 2007, 15, 18005.	3.4	6
51	MAFL experiment: development of photonic devices for a space-based multiaperture fiber-linked interferometer. Applied Optics, 2007, 46, 834.	2.1	9
52	Realization of a 980-nm/1550-nm Pump-Signal (De)multiplexer Made by Ion-Exchange on Glass Using a Segmented Asymmetric Y-Junction. IEEE Photonics Technology Letters, 2007, 19, 698-700.	2.5	23
53	First Results on Integrated Optics Developments for Mid-Infrared Interferometry. , 2007, , 593-594.		0
54	M-lines characterization of selenide and telluride thick films for mid-infrared interferometry. Optics Express, 2006, 14, 8459.	3.4	15

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55	Net gain demonstration with glass hybrid optical amplifiers made by ion-exchange and wafer bonding. , 2006, , .		1
56	Recent progress in mid-infrared integrated optics for nulling interferometry. , 2006, , .		2
57	Silicon-based integrated optics for stellar interferometry imaging. , 2006, , .		0
58	Study of a pump/signal multiplexer based on a segmented asymmetric Y junction by silver/sodium ion exchange on glass. , 2006, 6123, 246.		2
59	Infrared single-mode hollow conductive waveguides for stellar interferometry. , 2006, , .		2
60	Periodically segmented waveguides made by ion-exchange in glass: application to a TE-pass polarizer and to an asymmetric Y-junction wavelength demultiplexer. , 2005, , .		0
61	Optical amplifier made by reporting an Er ³⁺ /Yb ³⁺ -codoped glass layer on an ion-exchanged passive glass substrate by wafer bonding. , 2005, , .		2
62	Planar glass integrated optical structure based on prism decoupling for sensing applications. , 2005, 5728, 112.		0
63	Realization of a distributed phase shifted glass DFB laser. , 2005, , .		1
64	Results on the development of mid-infrared integrated optics for the Darwin Mission. , 2005, , .		1
65	4.25dB gain in a hybrid silicate/phosphate glasses optical amplifier made by wafer bonding and ion-exchange techniques. Applied Physics Letters, 2004, 85, 5176-5178.	3.3	29
66	Use of selectively buried ion-exchange waveguides for the realization of Bragg grating filters. , 2004, , .		8
67	Characterization methods of integrated optics for mid-infrared interferometry. , 2004, , .		0
68	1.53- μ m ultranarrow-linewidth DFB laser made on glass. , 2004, 5355, 141.		0
69	Apertureless scanning near-field optical microscopy for ion exchange channel waveguide characterization. Journal of Microscopy, 2003, 209, 155-161.	1.8	20
70	Multiwavelengths DFB waveguide laser arrays in Yb-Er codoped phosphate glass substrate. IEEE Photonics Technology Letters, 2003, 15, 516-518.	2.5	73
71	Glass integrated optics ultranarrow linewidth distributed feedback laser matrix for dense wavelength division multiplexing applications. Optical Engineering, 2003, 42, 2800.	1.0	38
72	New concept for combining 3 telescopes with integrated optics: multimode interferences (MMI). , 2003, , .		3

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73	Ion-exchanged glass amplifiers and DFB matrices. , 2003, 5260, 246.		0
74	Optimization of an integrated optic broadband duplexer for 0.8/1.3-micrometer applications. , 2003, , .		1
75	Numerical simulations on spatial filtering efficiency with optical fibers and integrated optics components. , 2003, 4838, 1324.		2
76	Ion-exchanged glass DFB lasers for DWDM. , 2002, 4640, 218.		4
77	Modeling and realization of a new broadband wavelength multiplexer/demultiplexer. , 2002, , .		1
78	1.55- μ mDFB waveguide lasers integrated on Yb-Er-doped phosphate glass substrate. , 2001, 4277, 389.		4
79	Fabrication and characterization of Bragg gratings in Er-Yb-doped glass waveguides using interferometric method. , 2001, , .		0
80	Ion-exchanged integrated devices. , 2001, , .		32
81	Self-aligned oxidised porous silicon optical waveguides with reduced loss. Electronics Letters, 2000, 36, 722.	1.0	17
82	<title>Rare-earth-doped fluoride waveguides</title>. , 1997, , .		4
83	<title>Neodymium-doped fluoride waveguides development using anionic exchange</title>. , 1996, , .		0