Bernard Dussardier

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8860310/publications.pdf

Version: 2024-02-01

107	2,196	201674	233421
papers	citations	27	45
		h-index	g-index

107	107	107	1547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dysprosium-doped silica fiber as saturable absorber for mid-infrared pulsed all-fiber lasers. Optics Express, 2022, 30, 3367.	3.4	4
2	Gradual-Time Solution Doping for the Fabrication of Longitudinally Varying Optical Fibres. Journal of Lightwave Technology, 2018, 36, 1786-1791.	4.6	7
3	Impact of cerium and lanthanum on the photo-darkening and photo-bleaching mechanisms in thulium-doped fibre. Optical Materials, 2017, 72, 106-114.	3.6	6
4	Steady photodarkening of thulium alumino-silicate fibers pumped at 107â€‰â€‰Î¼m: quantitative effect of lanthanum, cerium, and thulium. Optics Letters, 2016, 41, 2771.	3.3	20
5	Formation and applications of nanoparticles in silica optical fibers. Journal of Optics (India), 2016, 45, 247-254.	1.7	61
6	New challenges and directions toward nanoscale control of rare-earth properties in silica amplifying optical fibres. , 2014, , .		1
7	Thermally-stimulated emission analysis of bismuth-doped silica fibers. Optical Materials Express, 2014, 4, 1361.	3.0	4
8	Different Er3+ environments in Mg-based nanoparticle-doped optical fibre preforms. Journal of Non-Crystalline Solids, 2014, 401, 50-53.	3.1	18
9	Spectroscopic properties of LaF3:Tm3+ nanoparticle-doped silica optical fibers. , 2014, , .		0
10	Erbium- and Magnesium-codoped Silica-Based Transparent Glass Ceramic Core Fiber Made by FCVD and Flash Vaporization. , 2014, , .		0
11	Composition of nanoparticles in optical fibers by Secondary Ion Mass Spectrometry. Optical Materials Express, 2012, 2, 1504.	3.0	40
12	Self-induced laser line sweeping and self-pulsing in double-clad fiber lasers in Fabry-Perot and unidirectional ring cavities. Proceedings of SPIE, 2012, , .	0.8	13
13	Self-induced laser line sweeping in double-clad Yb-doped fiber-ring lasers. Laser Physics Letters, 2012, 9, 445-450.	1.4	46
14	Erbium-doped nanoparticles in silica-based optical fibres. International Journal of Nanotechnology, 2012, 9, 480.	0.2	14
15	Erbium-doped transparent glass ceramic optical fibres: Characterization using mass spectroscopy and molecular dynamics modeling. , 2012, , .		0
16	Thulium-doped silica fibers with enhanced ³H<inf>4</inf> level lifetime for fiber lasers and amplifiers. , 2012, , .		2
17	Preparation and Properties of <scp><scp>Er</scp></scp>â€Doped <scp><scp>ZrO</scp>₂</scp> Nanocrystalline Phaseâ€Separated Preforms of Optical Fibers by <scp>MCVD</scp> Process. International Journal of Applied Ceramic Technology, 2012, 9, 341-348.	2.1	12
18	Characterization of Erbium-Doped Nanoparticles in Transparent Glass Ceramic Optical Fibres. , 2012, , .		0

#	Article	IF	Citations
19	Large-mode-area leaky optical fiber fabricated by MCVD. Applied Optics, 2011, 50, 3118.	2.1	33
20	Passively Q-switched ytterbium- and chromium-doped all-fiber laser. Applied Optics, 2011, 50, E20.	2.1	25
21	Theoretical modeling of fiber laser at 810 nm based on thulium-doped silica fibers with enhanced ^3H_4 level lifetime. Optics Express, 2011, 19, 2773.	3.4	74
22	Preparation and characterization of highly thulium- and alumina-doped optical fibers for single-frequency fiber lasers. , 2011, , .		2
23	Fabrication of Rare Earth-Doped Transparent Glass Ceramic Optical Fibers by Modified Chemical Vapor Deposition. Journal of the American Ceramic Society, 2011, 94, 2315-2318.	3.8	94
24	Spectroscopic signature of phosphate crystallization in erbium-doped optical fibre preforms. Optical Materials, 2011, 33, 835-838.	3.6	15
25	Design and fabrication of an asymmetric twin-core fiber directional coupler for gain-flattened EDFA. Proceedings of SPIE, 2011, , .	0.8	1
26	Design and fabrication of an asymmetric twin-core fiber directional coupler for gain-flattened EDFA. , 2011, , .		0
27	Thulium-doped silica fibers with enhanced3H 4 level lifetime: modelling the devices for 800-820 nm band. , 2010, , .		2
28	Birefringence analysis of multilayer leaky cladding optical fibre. Journal of Optics (United Kingdom), 2010, 12, 065705.	2.2	0
29	Improving the radial dopant distribution in silica optical fibres. , 2010, , .		0
30	Long-period fiber grating as wavelength selective element in double-clad Yb-doped fiber-ring lasers. Laser Physics Letters, 2009, 6, 732-736.	1.4	65
31	Design and fabrication of an intrinsically gain flattened Erbium doped fiber amplifier. Optics Communications, 2009, 282, 2335-2338.	2.1	15
32	Erbium emission properties in nanostructured fibers. Applied Optics, 2009, 48, G119.	2.1	29
33	Role of CaO addition in the local order around Erbium in SiO2â€“GeO2â€“P2O5 fiber preforms. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 167-170.	3.5	20
34	Thulium environment in a silica doped optical fibre. Journal of Non-Crystalline Solids, 2008, 354, 435-439.	3.1	35
35	Visible and near infra-red up-conversion in Tm^3+/Yb^3+ co-doped silica fibers under 980 nm excitation. Optics Express, 2008, 16, 13781.	3.4	64
36	Luminescent Ions in Silica-Based Optical Fibers. Fiber and Integrated Optics, 2008, 27, 484-504.	2.5	6

#	Article	IF	Citations
37	Broadening of the erbium emission in dielectric nanoparticles doped silica-based fibres. , 2008, , .		0
38	Estimation of energy transfer parameters in thulium- and ytterbium-doped silica fibers. , 2008, , .		9
39	Co-axial dual-core resonant leaky fibre for optical amplifiers. Journal of Optics, 2008, 10, 115306.	1.5	18
40	Design and realization of a side-polished single-mode fiber optic high-sensitive temperature sensor. Proceedings of SPIE, 2008, , .	0.8	0
41	Passive Temperature-Compensating Technique for Microstructured Fiber Bragg Gratings. IEEE Sensors Journal, 2008, 8, 1073-1078.	4.7	11
42	Design and realization of an inherently gain flattened Erbium doped fiber amplifier. , 2008, , .		0
43	Distributed gain in a Tm-doped silica fiber - experiment and modeling. , 2007, , .		2
44	Novel Dopants for Silica-Based Fiber Amplifiers. , 2007, , .		3
45	Optimization of a passively Q-switched double clad Yb³⁺:Cr⁴⁺ all fibre laser. , 2007, , .		0
46	Tm³⁺/Yb³⁺ co-doped alumino-silicate fibre: potential for S-band optical amplification. , 2007, , .		0
47	Temperature compensation technique for Bragg gratings in microstructured optical fibers for sensing applications. , 2007, , .		0
48	Alternative Dopants for Silica Fibre Amplifiers. , 2007, , .		0
49	Three-hole microstructured optical fiber for efficient fiber Bragg grating refractometer. Optics Letters, 2007, 32, 2390.	3.3	113
50	Improvement of the Tm3+:3H4 level lifetime in silica optical fibers by lowering the local phonon energy. Journal of Non-Crystalline Solids, 2007, 353, 2767-2773.	3.1	57
51	Thulium-doped silica-based optical fibers for cladding-pumped fiber amplifiers. Optical Materials, 2007, 30, 174-176.	3.6	26
52	Tm³⁺/Yb³⁺ co-doped alumino-silicate fibre: potential for S-band optical amplification. , 2007, , .		0
53	Fibre Bragg grating photowriting in microstructured optical fibres for refractive index measurement. Measurement Science and Technology, 2006, 17, 992-997.	2.6	52
54	Tunable red-light source by frequency mixing from dual band Er/Yb co-doped fiber laser. Optics Express, 2006, 14, 3936.	3.4	11

#	Article	IF	Citations
55	Tilted Fiber Bragg Grating photowritten in microstructured optical fiber for improved refractive index measurement. Optics Express, 2006, 14, 10359.	3.4	43
56	Energy transfer up-conversion in Tm3+-doped silica fiber. Journal of Non-Crystalline Solids, 2006, 352, 136-141.	3.1	31
57	Inherently gain flattened L+ band TDFA based on W-fiber design. Optics Communications, 2006, 262, 193-199.	2.1	8
58	<title>Characterization of a thulium-doped silica-based optical fibre for S-band amplification</title>. , 2006, 6180, 181.		4
59	Impact of Aluminium Codoping on the 1.47 Â¿m Emission Efficiency in a Thulium-Doped Silica Fibre. , 2006, , .		1
60	Tunable laser in the green, red and near IR by frequency mixing of a dual wavelength Er/Yb co-doped fiber laser. , 2006, , .		0
61	Microstructured fibers for sensing applications (Invited Paper). , 2005, , .		4
62	Strain-imposed fiber optic laser-based system for wide range temperature measurement applications. , 2005, , .		0
63	Fiber Bragg grating photowriting in microstructured optical fibers for sensing application based on refractive index measurement. , 2005, , .		2
64	Inherently gain flattened, TDFA design for L+ Band. , 2005, , FWH4.		0
65	Coherent combining in an Yb doped double core fiber laser. , 2005, , .		0
66	Coherent combining in an Yb-doped double-core fiber laser. Optics Letters, 2005, 30, 1962.	3.3	25
67	Evidence of thermal effects in a high-power Er^3+â€“Yb^3+ fiber laser. Optics Letters, 2005, 30, 3030.	3.3	24
68	Segmented-clad fiber design for inherently gain-flattened L/sup +/-band TDFA. IEEE Photonics Technology Letters, 2005, 17, 1833-1835.	2.5	2
69	A wide temperature tunable fibre laser using a chirped grating and a type IIA fibre Bragg grating. Measurement Science and Technology, 2004, 15, 1113-1119.	2.6	8
70	Thulium-doped silica-fiber based S-band amplifier with increased efficiency by aluminum co-doping. , 2004, , OWC2.		11
71	Strain-independent temperature measurement using a type-I and type-IIA optical fiber Bragg grating combination. Review of Scientific Instruments, 2004, 75, 1327-1331.	1.3	21
72	Theoretical modelling of S-band thulium-doped silica fibre amplifiers. Optical and Quantum Electronics, 2004, 36, 201-212.	3.3	113

#	Article	IF	Citations
73	Investigation of the photosensitivity, temperature sustainability and fluorescence characteristics of several Er-doped photosensitive fibers. Optics Communications, 2004, 237, 301-308.	2.1	10
74	Non-linear temperature dependence of Bragg gratings written in different fibres, optimised for sensor applications over a wide range of temperatures. Sensors and Actuators A: Physical, 2004, 112, 211-219.	4.1	42
75	Bragg gratings written in Snâ€“Erâ€“Ge-codoped silica fiber: investigation of photosensitivity, thermal stability, and sensing potential. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1503.	1.5	8
76	Conception and characterization of a dual-concentric-core erbium-doped dispersion-compensating fiber. Optics Letters, 2004, 29, 700.	3.3	5
77	High repetition rate passively Q-switched Nd3+:Cr4+ all-fibre laser. Electronics Letters, 2003, 39, 1307.	1.0	43
78	Bragg grating performance in Erâ€“Sn-doped germanosilicate fiber for simultaneous measurement of wide range temperature (to 500â€ŠÂ°C) and strain. Review of Scientific Instruments, 2003, 74, 4858-4862.	1.3	14
79	Very large effective area singlemode photonic bandgap fibre. Electronics Letters, 2003, 39, 1240.	1.0	44
80	Conception, Realization, and Characterization of a Very High Negative Chromatic Dispersion Fiber. Optical Fiber Technology, 2002, 8, 89-105.	2.7	73
81	Cr4+-doped silica-based optical fibers fluorescence from 0.8 Î¼m to 1.7 Î¼m.. , 2002, , .		3
82	Fluorescence de 0,8 Ã 1,7 Î¼m de fibres optiques en silice dopÃ©es par l'ion Cr⁴⁺. European Physical Journal Special Topics, 2002, 12, 243-245.	0.2	0
83	Chromium-doped silica optical fibres: influence of the core composition on the Cr oxidation states and crystal field. Optical Materials, 2001, 16, 269-277.	3.6	31
84	Design of a high negative chromatic dispersion in a single mode optical fibre: effect of the central index dip. Optics Communications, 2000, 178, 71-77.	2.1	9
85	Modal contribution to the polarization dependent gain constant in Er3+-doped fiber. Optics Communications, 2000, 185, 407-412.	2.1	0
86	Cr4+-doped silica optical fibres: absorption and fluorescence properties. EPJ Applied Physics, 2000, 11, 107-110.	0.7	19
87	â€“1800 ps/(nm.km) chromatic dispersion at 1.55 [micro sign]m in dual concentric core fibre. Electronics Letters, 2000, 36, 1689.	1.0	85
88	Clustering effects on double energy transfer in heavily ytterbiumâ€“erbium-codoped silica fibers. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 693.	2.1	35
89	Blue Upconversion Emission in Er3+-Doped Fluoride Fiber. Optical Fiber Technology, 1996, 2, 249-252.	2.7	6
90	Spectroscopic analysis of Er3+ transitions in lithium niobate. Journal of Luminescence, 1996, 69, 17-26.	3.1	153

#	Article	IF	Citations
91	Spectroscopy and CW 2-photon up-conversion in Tm3+-doped ZnCl2-based glass. Optical Materials, 1995, 4, 565-573.	3.6	12
92	Pr3+-doped Cs:Ga:S:Cl glass for efficient 1.3 Âµm optical fibre amplifier. Electronics Letters, 1995, 31, 206-208.	1.0	11
93	Clustering-induced nonsaturable absorption phenomenon in heavily erbium-doped silica fibers. Optics Letters, 1995, 20, 2487.	3.3	44
94	Erbium-doped silica fibers for intrinsic fiber-optic temperature sensors. Applied Optics, 1995, 34, 8019.	2.1	117
95	Thermalization effects between upper levels of green fluorescence in Er-doped silica fibers. Optics Letters, 1994, 19, 990.	3.3	86
96	Fluorescence and superfluorescence line narrowing and tunability of Nd/sup 3+/ doped fibers. IEEE Journal of Quantum Electronics, 1994, 30, 2361-2367.	1.9	5
97	Amplified spontaneous emission in Ho3+ doped ZBLA fibres. Journal of Non-Crystalline Solids, 1993, 161, 249-253.	3.1	0
98	Simultaneous measurements of lifetime, gain and emission cross section in a neodymium-doped fiber. IEEE Photonics Technology Letters, 1993, 5, 419-421.	2.5	1
99	Near infrared emission in Ho3+fluorozirconate fibres. Journal of Optics, 1993, 2, 81-85.	0.5	1
100	Gain-guided optical amplification in a stoichiometric KNdP4O12crystal transversely pumped by a high power diode laser. Journal of Optics, 1993, 2, 569-573.	0.5	2
101	Impurity fluorescence in fluorozirconate fibers. Applied Optics, 1992, 31, 1175.	2.1	0
102	Chromium-doped silica-based optical fibres: influence of the chemical composition on oxidation states and optical properties. , 0, , .		0
103	Cr/sup 4+/-doped silica-based optical fibres: absorption and fluorescence properties. , 0, , .		0
104	Very first evidence of propagation in a modified chemical vapour deposition photonic-band-gap fibre (Bragg type). , 0, , .		0
105	An integrated Nd/sup 3+/:Cr/sup 4+/ passively Q-switched all-fiber laser. , 0, , .		0
106	A passively Q-switched Er/sup 3+/ -doped fiber laser using a Co/sup 2+/ -doped fiber as saturable absorber. , 0, , .		0
107	Tailoring of the Local Environment of Active Ions in Rare-Earth- and Transition-Metal-Doped Optical Fibres, and Potential Applications. , 0, , .		10