

Bernard Dussardier

List of Publications by Year in descending order

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107
papers

2,196
citations

201674

27
h-index

233421

45
g-index

107
all docs

107
docs citations

107
times ranked

1547
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic analysis of Er ³⁺ transitions in lithium niobate. Journal of Luminescence, 1996, 69, 17-26.	3.1	153
2	Erbium-doped silica fibers for intrinsic fiber-optic temperature sensors. Applied Optics, 1995, 34, 8019.	2.1	117
3	Theoretical modelling of S-band thulium-doped silica fibre amplifiers. Optical and Quantum Electronics, 2004, 36, 201-212.	3.3	113
4	Three-hole microstructured optical fiber for efficient fiber Bragg grating refractometer. Optics Letters, 2007, 32, 2390.	3.3	113
5	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
6	Thermalization effects between upper levels of green fluorescence in Er-doped silica fibers. Optics Letters, 1994, 19, 990.	3.3	86
7	~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
8	Theoretical modeling of fiber laser at 810 nm based on thulium-doped silica fibers with enhanced ³ H ₄ level lifetime. Optics Express, 2011, 19, 2773.	3.4	74
9	Conception, Realization, and Characterization of a Very High Negative Chromatic Dispersion Fiber. Optical Fiber Technology, 2002, 8, 89-105.	2.7	73
10	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
11	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
12	Formation and applications of nanoparticles in silica optical fibers. Journal of Optics (India), 2016, 45, 247-254.	1.7	61
13	Improvement of the Tm ³⁺ : ³ H ₄ level lifetime in silica optical fibers by lowering the local phonon energy. Journal of Non-Crystalline Solids, 2007, 353, 2767-2773.	3.1	57
14	Fibre Bragg grating photowriting in microstructured optical fibres for refractive index measurement. Measurement Science and Technology, 2006, 17, 992-997.	2.6	52
15	Self-induced laser line sweeping in double-clad Yb-doped fiber-ring lasers. Laser Physics Letters, 2012, 9, 445-450.	1.4	46
16	Clustering-induced nonsaturable absorption phenomenon in heavily erbium-doped silica fibers. Optics Letters, 1995, 20, 2487.	3.3	44
17	Very large effective area singlemode photonic bandgap fibre. Electronics Letters, 2003, 39, 1240.	1.0	44
18	High repetition rate passively Q-switched Nd ³⁺ :Cr ⁴⁺ all-fibre laser. Electronics Letters, 2003, 39, 1307.	1.0	43

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19	Tilted Fiber Bragg Grating photowritten in microstructured optical fiber for improved refractive index measurement. <i>Optics Express</i> , 2006, 14, 10359.	3.4	43
20	Non-linear temperature dependence of Bragg gratings written in different fibres, optimised for sensor applications over a wide range of temperatures. <i>Sensors and Actuators A: Physical</i> , 2004, 112, 211-219.	4.1	42
21	Composition of nanoparticles in optical fibers by Secondary Ion Mass Spectrometry. <i>Optical Materials Express</i> , 2012, 2, 1504.	3.0	40
22	Clustering effects on double energy transfer in heavily ytterbium-erbium-codoped silica fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 693.	2.1	35
23	Thulium environment in a silica doped optical fibre. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 435-439.	3.1	35
24	Large-mode-area leaky optical fiber fabricated by MCVD. <i>Applied Optics</i> , 2011, 50, 3118.	2.1	33
25	Chromium-doped silica optical fibres: influence of the core composition on the Cr oxidation states and crystal field. <i>Optical Materials</i> , 2001, 16, 269-277.	3.6	31
26	Energy transfer up-conversion in Tm ³⁺ -doped silica fiber. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 136-141.	3.1	31
27	Erbium emission properties in nanostructured fibers. <i>Applied Optics</i> , 2009, 48, G119.	2.1	29
28	Thulium-doped silica-based optical fibers for cladding-pumped fiber amplifiers. <i>Optical Materials</i> , 2007, 30, 174-176.	3.6	26
29	Coherent combining in an Yb-doped double-core fiber laser. <i>Optics Letters</i> , 2005, 30, 1962.	3.3	25
30	Passively Q-switched ytterbium- and chromium-doped all-fiber laser. <i>Applied Optics</i> , 2011, 50, E20.	2.1	25
31	Evidence of thermal effects in a high-power Er ³⁺ -Yb ³⁺ fiber laser. <i>Optics Letters</i> , 2005, 30, 3030.	3.3	24
32	Strain-independent temperature measurement using a type-I and type-IIA optical fiber Bragg grating combination. <i>Review of Scientific Instruments</i> , 2004, 75, 1327-1331.	1.3	21
33	Role of CaO addition in the local order around Erbium in SiO ₂ -GeO ₂ -P ₂ O ₅ fiber preforms. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 146, 167-170.	3.5	20
34	Steady photodarkening of thulium alumino-silicate fibers pumped at 1074nm: quantitative effect of lanthanum, cerium, and thulium. <i>Optics Letters</i> , 2016, 41, 2771.	3.3	20
35	Cr ⁴⁺ -doped silica optical fibres: absorption and fluorescence properties. <i>EPJ Applied Physics</i> , 2000, 11, 107-110.	0.7	19
36	Co-axial dual-core resonant leaky fibre for optical amplifiers. <i>Journal of Optics</i> , 2008, 10, 115306.	1.5	18

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37	Different Er ³⁺ environments in Mg-based nanoparticle-doped optical fibre preforms. Journal of Non-Crystalline Solids, 2014, 401, 50-53.	3.1	18
38	Design and fabrication of an intrinsically gain flattened Erbium doped fiber amplifier. Optics Communications, 2009, 282, 2335-2338.	2.1	15
39	Spectroscopic signature of phosphate crystallization in erbium-doped optical fibre preforms. Optical Materials, 2011, 33, 835-838.	3.6	15
40	Bragg grating performance in Er ³⁺ /Sn-doped germanosilicate fiber for simultaneous measurement of wide range temperature (to 500°C) and strain. Review of Scientific Instruments, 2003, 74, 4858-4862.	1.3	14
41	Erbium-doped nanoparticles in silica-based optical fibres. International Journal of Nanotechnology, 2012, 9, 480.	0.2	14
42	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
43	Spectroscopy and CW 2-photon up-conversion in Tm ³⁺ -doped ZnCl ₂ -based glass. Optical Materials, 1995, 4, 565-573.	3.6	12
44	Preparation and Properties of Er ³⁺ -Doped ZrO ₂ Nanocrystalline Phase-Separated Preforms of Optical Fibers by MCVD Process. International Journal of Applied Ceramic Technology, 2012, 9, 341-348.	2.1	12
45	Pr ³⁺ -doped Cs:Ga:S:Cl glass for efficient 1.3 μm optical fibre amplifier. Electronics Letters, 1995, 31, 206-208.	1.0	11
46	Thulium-doped silica-fiber based S-band amplifier with increased efficiency by aluminum co-doping. , 2004, , OWC2.		11
47	Tunable red-light source by frequency mixing from dual band Er/Yb co-doped fiber laser. Optics Express, 2006, 14, 3936.	3.4	11
48	Passive Temperature-Compensating Technique for Microstructured Fiber Bragg Gratings. IEEE Sensors Journal, 2008, 8, 1073-1078.	4.7	11
49	Investigation of the photosensitivity, temperature sustainability and fluorescence characteristics of several Er-doped photosensitive fibers. Optics Communications, 2004, 237, 301-308.	2.1	10
50	Tailoring of the Local Environment of Active Ions in Rare-Earth- and Transition-Metal-Doped Optical Fibres, and Potential Applications. , 0, , .		10
51	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
52	Estimation of energy transfer parameters in thulium- and ytterbium-doped silica fibers. , 2008, , .		9
53	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
54	Bragg gratings written in Sn ⁴⁺ /Er ³⁺ /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

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55	Inherently gain flattened L+ band TDFA based on W-fiber design. Optics Communications, 2006, 262, 193-199.	2.1	8
56	Gradual-Time Solution Doping for the Fabrication of Longitudinally Varying Optical Fibres. Journal of Lightwave Technology, 2018, 36, 1786-1791.	4.6	7
57	Blue Upconversion Emission in Er ³⁺ -Doped Fluoride Fiber. Optical Fiber Technology, 1996, 2, 249-252.	2.7	6
58	Luminescent Ions in Silica-Based Optical Fibers. Fiber and Integrated Optics, 2008, 27, 484-504.	2.5	6
59	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
60	Fluorescence and superfluorescence line narrowing and tunability of Nd ³⁺ doped fibers. IEEE Journal of Quantum Electronics, 1994, 30, 2361-2367.	1.9	5
61	Conception and characterization of a dual-concentric-core erbium-doped dispersion-compensating fiber. Optics Letters, 2004, 29, 700.	3.3	5
62	Microstructured fibers for sensing applications (Invited Paper). , 2005, , .		4
63	<title>Characterization of a thulium-doped silica-based optical fibre for S-band amplification</title> . , 2006, 6180, 181.		4
64	Thermally-stimulated emission analysis of bismuth-doped silica fibers. Optical Materials Express, 2014, 4, 1361.	3.0	4
65	Dysprosium-doped silica fiber as saturable absorber for mid-infrared pulsed all-fiber lasers. Optics Express, 2022, 30, 3367.	3.4	4
66	Novel Dopants for Silica-Based Fiber Amplifiers. , 2007, , .		3
67	Cr ⁴⁺ -doped silica-based optical fibers fluorescence from 0.8 μ m to 1.7 μ m.. , 2002, , .		3
68	Gain-guided optical amplification in a stoichiometric KNdP ₄ O ₁₂ crystal transversely pumped by a high power diode laser. Journal of Optics, 1993, 2, 569-573.	0.5	2
69	Fiber Bragg grating photowriting in microstructured optical fibers for sensing application based on refractive index measurement. , 2005, , .		2
70	Segmented-clad fiber design for inherently gain-flattened L ⁺ /sup +/-band TDFA. IEEE Photonics Technology Letters, 2005, 17, 1833-1835.	2.5	2
71	Distributed gain in a Tm-doped silica fiber - experiment and modeling. , 2007, , .		2
72	Thulium-doped silica fibers with enhanced 3H ₄ level lifetime: modelling the devices for 800-820 nm band. , 2010, , .		2

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73	Preparation and characterization of highly thulium- and alumina-doped optical fibers for single-frequency fiber lasers. , 2011, , .		2
74	Thulium-doped silica fibers with enhanced $\langle \text{H} \rangle$ level lifetime for fiber lasers and amplifiers. , 2012, , .		2
75	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
76	Near infrared emission in Ho ³⁺ fluorozirconate fibres. Journal of Optics, 1993, 2, 81-85.	0.5	1
77	Impact of Aluminium Codoping on the 1.47 μm Emission Efficiency in a Thulium-Doped Silica Fibre. , 2006, , .		1
78	Design and fabrication of an asymmetric twin-core fiber directional coupler for gain-flattened EDFA. Proceedings of SPIE, 2011, , .	0.8	1
79	New challenges and directions toward nanoscale control of rare-earth properties in silica amplifying optical fibres. , 2014, , .		1
80	Impurity fluorescence in fluorozirconate fibers. Applied Optics, 1992, 31, 1175.	2.1	0
81	Amplified spontaneous emission in Ho ³⁺ doped ZBLA fibres. Journal of Non-Crystalline Solids, 1993, 161, 249-253.	3.1	0
82	Modal contribution to the polarization dependent gain constant in Er ³⁺ -doped fiber. Optics Communications, 2000, 185, 407-412.	2.1	0
83	Chromium-doped silica-based optical fibres: influence of the chemical composition on oxidation states and optical properties. , 0, , .		0
84	Cr ⁴⁺ -doped silica-based optical fibres: absorption and fluorescence properties. , 0, , .		0
85	Very first evidence of propagation in a modified chemical vapour deposition photonic-band-gap fibre (Bragg type). , 0, , .		0
86	An integrated Nd ³⁺ /Cr ⁴⁺ passively Q-switched all-fiber laser. , 0, , .		0
87	Strain-imposed fiber optic laser-based system for wide range temperature measurement applications. , 2005, , .		0
88	Inherently gain flattened, TDFA design for L+ Band. , 2005, , FWH4.		0
89	A passively Q-switched Er ³⁺ -doped fiber laser using a Co ²⁺ -doped fiber as saturable absorber. , 0, , .		0
90	Coherent combining in an Yb doped double core fiber laser. , 2005, , .		0

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91	Tunable laser in the green, red and near IR by frequency mixing of a dual wavelength Er/Yb co-doped fiber laser. , 2006, , .		0
92	Optimization of a passively Q-switched double clad Yb ³⁺ :Cr ⁴⁺ all fibre laser. , 2007, , .		0
93	Tm ³⁺ /Yb ³⁺ co-doped alumino-silicate fibre: potential for S-band optical amplification. , 2007, , .		0
94	Temperature compensation technique for Bragg gratings in microstructured optical fibers for sensing applications. , 2007, , .		0
95	Alternative Dopants for Silica Fibre Amplifiers. , 2007, , .		0
96	Broadening of the erbium emission in dielectric nanoparticles doped silica-based fibres. , 2008, , .		0
97	Design and realization of a side-polished single-mode fiber optic high-sensitive temperature sensor. Proceedings of SPIE, 2008, , .	0.8	0
98	Birefringence analysis of multilayer leaky cladding optical fibre. Journal of Optics (United Kingdom), 2010, 12, 065705.	2.2	0
99	Improving the radial dopant distribution in silica optical fibres. , 2010, , .		0
100	Erbium-doped transparent glass ceramic optical fibres: Characterization using mass spectroscopy and molecular dynamics modeling. , 2012, , .		0
101	Fluorescence de 0,8 Å 1,7 Î¼m de fibres optiques en silice dopées par l'ion Cr ⁴⁺ . European Physical Journal Special Topics, 2002, 12, 243-245.	0.2	0
102	Tm ³⁺ /Yb ³⁺ co-doped alumino-silicate fibre: potential for S-band optical amplification. , 2007, , .		0
103	Design and realization of an inherently gain flattened Erbium doped fiber amplifier. , 2008, , .		0
104	Design and fabrication of an asymmetric twin-core fiber directional coupler for gain-flattened EDFA. , 2011, , .		0
105	Characterization of Erbium-Doped Nanoparticles in Transparent Glass Ceramic Optical Fibres. , 2012, , .		0
106	Spectroscopic properties of LaF ₃ :Tm ³⁺ nanoparticle-doped silica optical fibers. , 2014, , .		0
107	Erbium- and Magnesium-codoped Silica-Based Transparent Glass Ceramic Core Fiber Made by FCVD and Flash Vaporization. , 2014, , .		0