

# Giancarlo C Righini

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5306433/publications.pdf>

Version: 2024-02-01

306  
papers

5,144  
citations

81839

39  
h-index

138417

58  
g-index

311  
all docs

311  
docs citations

311  
times ranked

3862  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rare-earth activated SnO <sub>2</sub> photoluminescent thin films on flexible glass: Synthesis, deposition and characterization. <i>Optical Materials</i> , 2022, 124, 111978.	1.7	13
2	Sol-gel-derived transparent glass-ceramics for photonics. <i>Optical Materials</i> , 2022, 130, 112577.	1.7	5
3	Assessment of SnO <sub>2</sub> -nanocrystal-based luminescent glass-ceramic waveguides for integrated photonics. <i>Ceramics International</i> , 2021, 47, 5534-5541.	2.3	17
4	PhoXonic Whispering Gallery Mode Resonators: parametrical optomechanic oscillations and its applications. , 2021, , .		0
5	From flexible electronics to flexible photonics: A brief overview. <i>Optical Materials</i> , 2021, 115, 111011.	1.7	34
6	Towards a Glass New World: The Role of Ion-Exchange in Modern Technology. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4610.	1.3	21
7	Design, fabrication and assessment of an optomechanical sensor for pressure and vibration detection using flexible glass multilayers. <i>Optical Materials</i> , 2021, 115, 111023.	1.7	7
8	Active and Quantum Integrated Photonic Elements by Ion Exchange in Glass. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5222.	1.3	6
9	Ag-sensitized Tb <sup>3+</sup> /Yb <sup>3+</sup> codoped silica-zirconia glasses and glass-ceramics: Systematic and detailed investigation of the broadband energy-transfer and downconversion processes. <i>Ceramics International</i> , 2021, 47, 17939-17949.	2.3	9
10	Search for Multi-Coincidence Cosmic Ray Events over Large Distances with the EEE MRPC Telescopes. <i>J</i> , 2021, 4, 838-848.	0.6	1
11	Enhanced photorefractivity and rare-earth photoluminescence in SnO <sub>2</sub> nanocrystals-based photonic glass-ceramics. <i>EPJ Web of Conferences</i> , 2021, 255, 05001.	0.1	0
12	Glass ceramics for frequency conversion. , 2020, , 391-414.		5
13	Modification of the Near-Infrared Spontaneous Emission in Er <sup>3+</sup> -Activated Inverse Silica Opals. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900476.	0.7	1
14	SiO <sub>2</sub> -SnO <sub>2</sub> :Er <sup>3+</sup> planar waveguides: Highly photorefractive glass-ceramics. <i>Optical Materials: X</i> , 2020, 7, 100056.	0.3	3
15	Editorial for the Special Issue on Nonlinear Photonics Devices. <i>Micromachines</i> , 2020, 11, 760.	1.4	0
16	Ag-Sensitized NIR-Emitting Yb <sup>3+</sup> -Doped Glass-Ceramics. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2184.	1.3	10
17	Photonic Crystal Stimuli-Responsive Chromatic Sensors: A Short Review. <i>Micromachines</i> , 2020, 11, 290.	1.4	29
18	Flexible photonics: RF-sputtering fabrication of glass-based systems operating under mechanical deformation conditions. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Enhancement, Suppression and Chaotic Behavior in Optomechanical Oscillations in Hollow Resonators. , 2020, , .		0
20	SiO <sub>2</sub> -SnO <sub>2</sub> Photonic Glass-Ceramics. , 2019, , .		1
21	Low-Threshold Coherent Emission at 1.5 $\mu\text{m}$ from Fully Er <sup>3+</sup> Doped Monolithic 1D Dielectric Microcavity Fabricated Using Radio Frequency Sputtering. Ceramics, 2019, 2, 74-85.	1.0	4
22	Editorial for the Special Issue on Glassy Materials Based Microdevices. Micromachines, 2019, 10, 39.	1.4	1
23	SiO <sub>2</sub> -SnO <sub>2</sub> transparent glass-ceramics activated by rare earth ions. , 2019, , .		4
24	Cavity-ringdown-spectroscopy-based study of high Q resonators in add-drop configuration. , 2019, , .		0
25	Glassy Microspheres for Energy Applications. Micromachines, 2018, 9, 379.	1.4	16
26	Ag-Sensitized Yb <sup>3+</sup> Emission in Glass-Ceramics. Micromachines, 2018, 9, 380.	1.4	10
27	About the Implementation of Frequency Conversion Processes in Solar Cell Device Simulations. Micromachines, 2018, 9, 435.	1.4	7
28	SiO <sub>2</sub> -SnO <sub>2</sub> :Er <sup>3+</sup> Glass-Ceramic Monoliths. Applied Sciences (Switzerland), 2018, 8, 1335.	1.3	22
29	Role of Ag multimers as broadband sensitizers in Tb <sup>3+</sup> /Yb <sup>3+</sup> co-doped glass-ceramics. , 2018, , .		1
30	Characterization of Sol-Gel Thin-Film Waveguides. , 2018, , 1565-1593.		0
31	Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2018, , 1607-1649.		0
32	SiO <sub>2</sub> -SnO <sub>2</sub> :Er <sup>3+</sup> transparent glass-ceramics: fabrication and photonic assessment. , 2018, , .		1
33	Spectroscopic properties of rare earth doped germanate glasses. , 2018, , .		0
34	Fabrication by rf-sputtering and assessment of dielectric Er <sup>3+</sup> doped monolithic 1-D microcavity for coherent emission at 1.5 $\mu\text{m}$ . , 2018, , .		0
35	Glass-based microresonators. , 2018, , .		0
36	SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -HfO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glasses activated by Er <sup>3+</sup> ions: From bulk sample to planar waveguide fabricated by rf-sputtering. Optical Materials, 2017, 63, 153-157.	1.7	12

#	ARTICLE	IF	CITATIONS
37	Tailoring the optical properties of one-dimensional (1D) photonic structures. , 2017, , .		0
38	Glass and glass-ceramic photonic systems. , 2017, , .		2
39	Efficient frequency generation in phoXonic cavities based on hollow whispering gallery mode resonators. Scientific Reports, 2017, 7, 44198.	1.6	15
40	Advancement of Glass-Ceramic Materials for Photonic Applications. , 2017, , 133-155.		1
41	Tin-dioxide nanocrystals as Er 3+ luminescence sensitizers: Formation of glass-ceramic thin films and their characterization. Optical Materials, 2017, 63, 95-100.	1.7	40
42	Photoluminescence of antimony-germanate-silicate glass doped with europium ions and silver nanoparticles. , 2017, , .		1
43	THz Pyro-Optical Detector Based on LiNbO3 Whispering Gallery Mode Microdisc Resonator. Sensors, 2017, 17, 258.	2.1	5
44	Solâ€“Gel-Derived Glass-Ceramic Photorefractive Films for Photonic Structures. Crystals, 2017, 7, 61.	1.0	18
45	Biosensing by WGM Microspherical Resonators. Sensors, 2016, 16, 905.	2.1	103
46	Resonance Frequency of Optical Microbubble Resonators: Direct Measurements and Mitigation of Fluctuations. Sensors, 2016, 16, 1405.	2.1	6
47	Optical Microbubble Resonators with High Refractive Index Inner Coating for Bio-Sensing Applications: An Analytical Approach. Sensors, 2016, 16, 1992.	2.1	13
48	Characterization of Sol-Gel Thin-Film Waveguides. , 2016, , 1-29.		1
49	A proposal for a nanosatellite for cosmic ray detection. , 2016, , .		0
50	Glass-based 1-D dielectric microcavities. Optical Materials, 2016, 61, 11-14.	1.7	5
51	Silver doping of silica-hafnia waveguides containing Tb 3+ /Yb 3+ rare earths for downconversion in PV solar cells. Optical Materials, 2016, 60, 264-269.	1.7	28
52	Stimulated Stokes and Antistokes Raman Scattering in Microspherical Whispering Gallery Mode Resonators. Journal of Visualized Experiments, 2016, , e53938.	0.2	1
53	Investigation of upconversion luminescence in Yb3+/Tm3+/Ho3+ triply doped antimony-germanate glass and double-clad optical fiber. Optical Materials, 2016, 58, 279-284.	1.7	29
54	Photoluminescence and lasing in whispering gallery mode glass microspherical resonators. Journal of Luminescence, 2016, 170, 755-760.	1.5	24

#	ARTICLE	IF	CITATIONS
55	Two photon versus one photon fluorescence excitation in whispering gallery mode microresonators. Journal of Luminescence, 2016, 170, 860-865.	1.5	5
56	Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2016, , 1-43.		3
57	Nonlinear Microcavities: from rainbow lasers to frequency combs. , 2016, , .		0
58	Nonlinear effects in ultrahigh Q optical resonators. , 2016, , .		0
59	Photonic glass-ceramics: consolidated outcomes and prospects. , 2015, , .		4
60	Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. Optical Materials, 2015, 50, 229-233.	1.7	45
61	Generation of hyper-parametric oscillations in silica microbubbles. Optics Letters, 2015, 40, 4508.	1.7	47
62	Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures. Ceramics International, 2015, 41, 7429-7433.	2.3	22
63	Dependence of the up-conversion emission of Li+ co-doped Y2O3:Er3+ films with dopant concentration. Journal of Luminescence, 2015, 167, 352-359.	1.5	27
64	White light generation in Dy3+-and Ce3+/Dy3+-doped zinc-“sodium”-aluminosilicate glasses. Journal of Luminescence, 2015, 167, 327-332.	1.5	60
65	Microbubble resonators as enhancement platforms for linear and nonlinear applications. Proceedings of SPIE, 2015, , .	0.8	0
66	Optical properties of one-dimensional disordered multilayer photonic structures. , 2015, , .		3
67	Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. Ceramics International, 2015, 41, 8655-8659.	2.3	30
68	Non-linear fluorescence excitation of Rhodamine 6G and TRITC labeled IgG in whispering gallery mode microresonators. Proceedings of SPIE, 2015, , .	0.8	1
69	Confocal reflectance microscopy for determination of microbubble resonator thickness. Optics Express, 2015, 23, 16693.	1.7	32
70	Glass-“Ceramic Materials for Guided-“Wave Optics. International Journal of Applied Glass Science, 2015, 6, 240-248.	1.0	48
71	Rare-earth doped materials for optical waveguides. , 2015, , .		5
72	Glass-ceramics for photonics: Laser material processing. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
73	Sol-gel-derived photonic structures handling erbium ions luminescence. <i>Optical and Quantum Electronics</i> , 2015, 47, 117-124.	1.5	15
74	Glass-based confined structures enabling light control. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
75	Long period grating-based fiber coupler to whispering gallery mode resonators. <i>Optics Letters</i> , 2014, 39, 6525.	1.7	39
76	RF-sputtering derived dielectric 1-D photonic crystal activated with Er <sup>3+</sup> ions. , 2014, , .		0
77	Stimulated anti-Stokes Raman scattering resonantly enhanced in silica microspheres. <i>Optics Letters</i> , 2014, 39, 5993.	1.7	21
78	Multicolour emission in silica whispering gallery mode microspherical resonators. , 2014, , .		0
79	Structural and spectroscopic properties of Eu <sup>3+</sup> -activated nanocrystalline tetraphosphates loaded in silica-hafnia thin film. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 32-35.	1.5	24
80	Glass optical waveguides: a review of fabrication techniques. <i>Optical Engineering</i> , 2014, 53, 071819.	0.5	89
81	Optical spectroscopy and optical waveguide fabrication in Eu <sup>3+</sup> and Eu <sup>3+</sup> /Tb <sup>3+</sup> doped zinc-sodium-aluminosilicate glasses. <i>Journal of Luminescence</i> , 2014, 147, 336-340.	1.5	22
82	Rare-earth phosphors for the control of WLED's colour output: State of the art. , 2014, , .		4
83	Coated spherical microresonators for cutting-edge photonics application. , 2014, , .		0
84	Tailoring of the free spectral range and geometrical cavity dispersion of a microsphere by a coating layer. <i>Optics Letters</i> , 2014, 39, 5173.	1.7	27
85	Glass-ceramics for photonics: Advances and perspectives. , 2014, , .		3
86	Li <sup>+</sup> co-doping effect on the photoluminescence time decay behavior of Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> films. <i>Journal of Luminescence</i> , 2014, 154, 106-110.	1.5	12
87	Hyperspectral (fluorescence lifetime) imaging based on a UV-VIS enhanced supercontinuum source using high-order mode propagation. , 2014, , .		0
88	Fabrication and Spectroscopic Assessment of Glass-Based Sub-Wavelength Structures for Hybrid 1-D Dielectric 633-nm Laser Microcavity. , 2014, , .		0
89	M-line spectroscopic, spectroscopic ellipsometric and microscopic measurements of optical waveguides fabricated by MeV-energy N <sup>+</sup> ion irradiation for telecom applications. <i>Thin Solid Films</i> , 2013, 541, 3-8.	0.8	3
90	Compositional and thermal treatment effects on Raman gain and bandwidth in nanostructured silica based glasses. <i>Optical Materials</i> , 2013, 36, 408-413.	1.7	31

#	ARTICLE	IF	CITATIONS
91	Solvent sensitive polymer composite structures. <i>Optical Materials</i> , 2013, 36, 130-134.	1.7	16
92	Preface: Photoluminescence in rare earths: Photonic materials and devices. <i>Optical Materials</i> , 2013, 35, 1877-1878.	1.7	2
93	Class-Based Sub-Wavelength Photonic Structures. , 2013, , .		0
94	Mid-Range Structure of Niobiumâ€“Sodiumâ€“Phosphate Electro-Optic Glasses. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1444-1450.	1.2	12
95	New yellowish-green light emitting thin film: $89\text{Al}_2\text{O}_3\hat{\dots}5\text{CeCl}_3\hat{\dots}3\text{EuCl}_3\hat{\dots}3\text{TbCl}_3$ . <i>Optical Materials</i> , 2013, 35, 1304-1308.	1.7	12
96	Effects of $\text{Tm}^{3+}$ Additions on the Crystallization of $\text{LaF}_3$ Nanocrystals in Oxyfluoride Glasses: Optical Characterization and Upâ€“Conversion. <i>Journal of the American Ceramic Society</i> , 2013, 96, 447-457.	1.9	46
97	About the role of phase matching between a coated microsphere and a tapered fiber: experimental study. <i>Optics Express</i> , 2013, 21, 20954.	1.7	19
98	Tailored spectroscopic and optical properties in rare earth-activated glass-ceramics planar waveguides. , 2013, , .		0
99	High quality factor 1-D $\text{Er}^{3+}$ -activated dielectric microcavity fabricated by RF-sputtering. <i>Optics Express</i> , 2012, 20, 21214.	1.7	64
100	High quality factor dielectric multilayer structures fabricated by rf-sputtering. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
101	Whispering gallery modes in coated silica microspheres. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
102	Design of rare-earth doped chalcogenide microspheres for mid-IR optical amplification. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
103	Spherical resonators coated by glass and glass-ceramic films. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
104	Neuronal rat cell imaging using a new UV-extended supercontinuum source. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
105	Local Site Distribution of Oxygen in Silicon-Rich Oxide Thin Films: A Tool to Investigate Phase Separation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10039-10047.	1.5	10
106	MeV Energy $\text{N}^{+}$ -Implanted Planar Optical Waveguides in Er-Doped Tungsten-Tellurite Glass Operating at 1.55 $\mu\text{m}$ . <i>IEEE Photonics Journal</i> , 2012, 4, 721-727.	1.0	22
107	Structural and optical characterization of $\text{ZrO}_2\text{:CeO}_2$ slab waveguides obtained via solâ€“gel. <i>Optical Materials</i> , 2012, 35, 97-101.	1.7	13
108	Optical spectroscopy and waveguide fabrication in $\text{Sm}^{3+}/\text{Tb}^{3+}$ doped zincâ€“sodiumâ€“aluminosilicate glasses. <i>Optical Materials</i> , 2012, 34, 1067-1071.	1.7	56

#	ARTICLE	IF	CITATIONS
109	Large Raman Gain in a Stable Nanocomposite Based on Niobosilicate Glass. Journal of Physical Chemistry C, 2011, 115, 17314-17319.	1.5	32
110	Fiber optic nanoprobe for biological sensing. Proceedings of SPIE, 2011, , .	0.8	1
111	Optical Microspherical Resonators for Biomedical Sensing. Sensors, 2011, 11, 785-805.	2.1	105
112	Planar coupling to high-Q lithium niobate disk resonators. Optics Express, 2011, 19, 3651.	1.7	38
113	Hybrid microspheres for nonlinear Kerr switching devices. Optics Express, 2011, 19, 9523.	1.7	29
114	High Q silica microbubble resonators fabricated by arc discharge. Optics Letters, 2011, 36, 3521.	1.7	115
115	Spectroscopic characterization and optical waveguide fabrication in Ce <sup>3+</sup> , Tb <sup>3+</sup> and Ce <sup>3+</sup> /Tb <sup>3+</sup> doped zinc-sodium-aluminosilicate glasses. Optical Materials, 2011, 33, 1892-1897.	1.7	34
116	Sol-gel-derived photonic structures: fabrication, assessment, and application. Journal of Sol-Gel Science and Technology, 2011, 60, 408-425.	1.1	54
117	Erbium doped silica-hafnia glass ceramic waveguides. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2875-2879.	0.8	6
118	Surface characterization of thin silicon-rich oxide films. Journal of Molecular Structure, 2011, 993, 214-218.	1.8	6
119	Soda-zinc-aluminosilicate glasses doped with Tb <sup>3+</sup> , Ce <sup>3+</sup> , and Sm <sup>3+</sup> for frequency conversion and white light generation. , 2011, , .		3
120	Rare-earth-activated glasses for solar energy conversion. , 2011, , .		3
121	Special Section Guest Editorial: Integrated Optics. Optical Engineering, 2011, 50, 071101.	0.5	0
122	Spatially localized UV-induced crystallization of SnO <sub>2</sub> in photorefractive SiO <sub>2</sub> -SnO <sub>2</sub> thin film. Proceedings of SPIE, 2010, , .	0.8	5
123	Design of Rare-Earth-Doped Microspheres. IEEE Photonics Technology Letters, 2010, 22, 422-424.	1.3	14
124	Spherical whispering-gallery-mode microresonators. Laser and Photonics Reviews, 2010, 4, 457-482.	4.4	384
125	Investigations of the effects of the growth of SnO <sub>2</sub> nanoparticles on the structural properties of glass-ceramic planar waveguides using Raman and FTIR spectroscopies. Journal of Molecular Structure, 2010, 976, 314-319.	1.8	47
126	Radio-frequency interrogation of a fiber Bragg grating sensor in the configuration of a fiber laser with external cavities. Optik, 2010, 121, 2040-2043.	1.4	4



#	ARTICLE	IF	CITATIONS
127	Rare-earth-activated glass-ceramic waveguides. <i>Optical Materials</i> , 2010, 32, 1644-1647.	1.7	37
128	Tb <sup>3+</sup> /Yb <sup>3+</sup> co-activated Silica-Hafnia glass ceramic waveguides. <i>Optical Materials</i> , 2010, 33, 227-230.	1.7	47
129	Raman optical amplification properties of sodium-niobium-phosphate glasses. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	43
130	Supercontinuum source tuned by an on-axis monochromator for fluorescence lifetime imaging. <i>Optics Express</i> , 2010, 18, 20505.	1.7	14
131	Glass-ceramics coating of silica microspheres. , 2009, , .		3
132	Coherent white light confocal fluorescence imaging and fluorescence lifetime imaging microscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
133	Terahertz flexible waveguides: an overview. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6
134	Photonic properties and applications of glass micro- and nanospheres. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 898-903.	0.8	6
135	Er <sup>3+</sup> -activated nanocomposite photonic glasses and confined structures. <i>Optical Materials</i> , 2009, 31, 1071-1074.	1.7	0
136	CO <sub>2</sub> laser annealing on erbium-activated glass-ceramic waveguides for photonics. <i>Optical Materials</i> , 2009, 31, 1310-1314.	1.7	18
137	Er <sup>3+</sup> -activated sol-gel silica confined structures for photonic applications. <i>Optical Materials</i> , 2009, 31, 1275-1279.	1.7	9
138	Extended transfer matrix modeling of an erbium-doped cavity with SiO <sub>2</sub> /TiO <sub>2</sub> Bragg reflectors. <i>Optical Materials</i> , 2009, 31, 1306-1309.	1.7	15
139	Quantum Confinement and Matrix Effects in Silver-Exchanged Soda Lime Glasses. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4445-4450.	1.5	50
140	Er <sup>3+</sup> /Yb <sup>3+</sup> -activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1176-1179.	1.5	18
141	Structural investigation of photonic materials at the nanolevel using XPS. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1157-1159.	1.5	5
142	Er <sup>3+</sup> -doped silica-hafnia films for optical waveguides and spherical resonators. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1853-1860.	1.5	29
143	Preparation and characterization of ZnO particles embedded in organic-inorganic planar waveguide by sol-gel route. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1132-1135.	1.5	23
144	An alternative method to obtain direct opal photonic crystal structures. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1167-1170.	1.5	43

#	ARTICLE	IF	CITATIONS
145	High-Q polymer-coated microspheres for immunosensing applications. Optics Express, 2009, 17, 14694.	1.7	52
146	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. Journal Physics D: Applied Physics, 2009, 42, 205106.	1.3	24
147	Micro resonator stabilization by thin film coating. , 2009, , .		3
148	Photoluminescence spectra of an optically pumped erbium-doped micro-cavity with SiO <sub>2</sub> /TiO <sub>2</sub> distributed Bragg reflectors. Journal of Luminescence, 2009, 129, 1989-1993.	1.5	13
149	Intermodal Beating Frequencies in a Fiber Laser with an External Cavity: Sensor Applications. Journal of Holography and Speckle, 2009, 5, 294-298.	0.1	0
150	Fabrication and direct bonding of photosensitive multicomponent silicate glasses for lossless planar waveguide splitters. Journal of Non-Crystalline Solids, 2008, 354, 1230-1234.	1.5	12
151	Enhanced fluorescence from Eu <sup>3+</sup> in low-loss silica glass-ceramic waveguides with high SnO <sub>2</sub> content. Applied Physics Letters, 2008, 93, .	1.5	69
152	Challenging nano-scale stress evaluation in glassy and crystalline semiconductor heterostructures. Proceedings of SPIE, 2008, , .	0.8	0
153	Erbium activated HfO <sub>2</sub> based glass-ceramics waveguides for photonics. Journal of Non-Crystalline Solids, 2007, 353, 494-497.	1.5	50
154	Silver to erbium energy transfer in phosphate glasses. Journal of Non-Crystalline Solids, 2007, 353, 498-501.	1.5	29
155	Design of photonic structures by sol-gel-derived silica nanospheres. Journal of Non-Crystalline Solids, 2007, 353, 674-678.	1.5	69
156	Rare-earth-doped silica-based glasses for photonic applications. Journal of Non-Crystalline Solids, 2007, 353, 753-756.	1.5	7
157	Ion beam irradiated channel waveguides in Er <sup>3+</sup> -doped tellurite glass. Applied Physics Letters, 2007, 90, 121136.	1.5	63
158	Er <sup>3+</sup> -activated silica inverse opals synthesized by the sol-gel method. Optoelectronics Letters, 2007, 3, 184-187.	0.4	5
159	Reproducibility of splicer-based long-period fiber gratings for gain equalization. Optoelectronics Letters, 2007, 3, 203-206.	0.4	4
160	Diagnostic techniques for photonic materials based on Raman and Brillouin spectroscopies. Optoelectronics Letters, 2007, 3, 188-191.	0.4	6
161	Assessment of nanocomposite photonic systems with the X-ray photoelectron spectroscopy. Optoelectronics Letters, 2007, 3, 192-194.	0.4	0
162	Er <sup>3+</sup> ion dispersion in tellurium oxychloride glasses. Optical Materials, 2007, 29, 503-509.	1.7	38

#	ARTICLE	IF	CITATIONS
163	Photonics Devices Based on Hybrid Approach Combining Liquid Crystals and Sol-Gel Waveguides. Fiber and Integrated Optics, 2006, 25, 175-194.	1.7	2
164	Spectroscopic and lasing properties of Er <sup>3+</sup> -doped glass microspheres. Journal of Non-Crystalline Solids, 2006, 352, 2360-2363.	1.5	31
165	Er <sup>3+</sup> /Yb <sup>3+</sup> -codoped silica-germania sputtered films: structural and spectroscopic characterization. Journal of Non-Crystalline Solids, 2006, 352, 2585-2588.	1.5	5
166	Characterization of erbium doped lithium niobate crystals and waveguides. Optical Materials, 2006, 28, 1292-1295.	1.7	11
167	Optical and spectroscopic properties of soda-lime alumino silicate glasses doped with Er <sup>3+</sup> and/or Yb <sup>3+</sup> . Optical Materials, 2006, 28, 1271-1275.	1.7	14
168	Digital-holography refractive-index-profile measurement of phase gratings. Applied Physics Letters, 2006, 88, 111114.	1.5	29
169	UV photoimprinting of channel waveguides on active SiO <sub>2</sub> -GeO <sub>2</sub> sputtered thin films. Applied Physics Letters, 2006, 89, 121102.	1.5	18
170	High quality factor Er <sup>3+</sup> -activated dielectric microcavity fabricated by rf sputtering. Applied Physics Letters, 2006, 89, 171910.	1.5	41
171	Spectroscopic properties of Er <sup>3+</sup> -activated Ag-exchanged silicate and phosphate glasses. , 2005, , .		0
172	Laser irradiation, ion implantation, and e-beam writing of integrated optical structures. , 2005, , .		12
173	The effect of Ca <sup>2+</sup> , Mg <sup>2+</sup> , and Zn <sup>2+</sup> on optical properties of Er <sup>3+</sup> -doped silicate glass. , 2005, , .		7
174	Spectroscopic assessment of rare-earth activated planar waveguides and microcavities. Applied Surface Science, 2005, 248, 3-7.	3.1	6
175	Assessment of spectroscopic properties of erbium ions in a soda-lime silicate glass after silver-sodium exchange. Optical Materials, 2005, 27, 1743-1747.	1.7	56
176	Integrated optical amplifiers and microspherical lasers based on erbium-doped oxide glasses. Optical Materials, 2005, 27, 1711-1717.	1.7	19
177	Self-absorption and radiation trapping in Er <sup>3+</sup> -doped TeO <sub>2</sub> -based glasses. Europhysics Letters, 2005, 71, 394-399.	0.7	59
178	Characterization of a highly photorefractive RF-sputtered SiO <sub>2</sub> -GeO <sub>2</sub> waveguide. Optics Express, 2005, 13, 1696.	1.7	30
179	Investigation of the role of silver on spectroscopic features of Er <sup>3+</sup> -activated Ag-exchanged silicate and phosphate glasses. Journal of Non-Crystalline Solids, 2005, 351, 1738-1742.	1.5	52
180	Aluminum co-doping of soda-lime silicate glasses: Effect on optical and spectroscopic properties. Journal of Non-Crystalline Solids, 2005, 351, 1747-1753.	1.5	30

#	ARTICLE	IF	CITATIONS
181	Er <sup>3+</sup> /Yb <sup>3+</sup> -codoped soda-lime silicate glasses: a case study. , 2004, 5350, 140.		3
182	Optical feedback on whispering gallery mode laser: wavelength shifts in erbium-doped microspherical laser. , 2004, 5451, 199.		8
183	Photoluminescence Spectroscopy of Er <sup>3+</sup> /Yb <sup>3+</sup> Co-Activated Silica-Alumina Monolithic Xerogels. Journal of Sol-Gel Science and Technology, 2004, 32, 267-271.	1.1	1
184	Enhanced spectroscopic properties at 1.5 $\mu$ m in Er <sup>3+</sup> /Yb <sup>3+</sup> -activated silica-titania planar waveguides fabricated by rf-sputtering. Optical Materials, 2004, 25, 117-122.	1.7	15
185	Erbium-activated HfO <sub>2</sub> -based waveguides for photonics. Optical Materials, 2004, 25, 131-139.	1.7	116
186	Towards a more accurate refractive index profile of ion-exchanged waveguides. Thin Solid Films, 2004, 460, 206-210.	0.8	8
187	Upconversion luminescence of a calcium sodium aluminosilicate glass doped with erbium. Materials Letters, 2004, 58, 2207-2212.	1.3	16
188	Microsphere laser in Er <sup>3+</sup> /Yb <sup>3+</sup> -codoped phosphate glass: coupling with an external cavity. , 2004, , .		6
189	Fabrication and characterization of optical planar waveguides activated by erbium ions for 1.5- $\mu$ m applications. , 2004, 5451, 574.		6
190	<title>Microsphere laser in Er<sup>3+</sup>-doped oxide glasses</title>. , 2004, , .		7
191	Optical spectroscopy of Er <sup>3+</sup> and Ce <sup>3+</sup> -codoped TeO <sub>2</sub> -WO <sub>3</sub> -Na <sub>2</sub> O glasses. , 2004, , .		3
192	Erbium-Activated Silica-Titania Planar Waveguides. Journal of Sol-Gel Science and Technology, 2003, 26, 1033-1036.	1.1	41
193	Er <sup>3+</sup> /Yb <sup>3+</sup> Co-Activated Silica-Alumina Monolithic Xerogels. Journal of Sol-Gel Science and Technology, 2003, 26, 943-946.	1.1	22
194	Leaky modes in lithium fluoride thick films thermally evaporated on glass. Optics Communications, 2003, 217, 249-256.	1.0	1
195	Modelling of diffractive structures in photorefractive Er/Yb-co-doped glass waveguides. Optics and Lasers in Engineering, 2003, 39, 333-344.	2.0	4
196	Er <sup>3+</sup> /Yb <sup>3+</sup> -activated silica-titania planar waveguides for EDPWAs fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2003, 322, 289-294.	1.5	25
197	Infrared-to-visible CW frequency upconversion in erbium activated silica-hafnia waveguides prepared by sol-gel route. Journal of Non-Crystalline Solids, 2003, 322, 306-310.	1.5	53
198	A comparison between different methods of calculating the radiative lifetime of the 4I <sub>13/2</sub> level of Er <sup>3+</sup> in various glasses. Journal of Non-Crystalline Solids, 2003, 322, 319-323.	1.5	14

#	ARTICLE	IF	CITATIONS
199	Advances in Optical Waveguide Engineering. Optical Engineering, 2003, 42, 2798.	0.5	0
200	Brillouin scattering in planar waveguides. II. Experiments. Journal of Applied Physics, 2003, 94, 4882.	1.1	4
201	Ion-exchanged planar waveguides in different Er <sup>3+</sup> -doped tellurite glasses. , 2003, , .		6
202	Electro-optical switch based on a Bragg grating in a liquid crystal waveguide. , 2003, 4829, 522.		0
203	Transparent Er <sup>3+</sup> -activated lead fluorogermanate glass ceramics. , 2003, , .		0
204	Sol-gel erbium-doped silica-hafnia planar and channel waveguides. , 2003, , .		8
205	Simple method to estimate the radiative lifetime of 4I 13/2 4I 15/2 transition of Er <sup>3+</sup> in transparent materials. , 2003, 4829, 145.		0
206	Fabrication and characterization of optical waveguides on LiF by ion beam irradiation. , 2003, , .		1
207	Fabrication by rf-sputtering processing of Er <sup>3+</sup> /Yb <sup>3+</sup> -codoped silica-titania planar waveguides. , 2003, , .		2
208	Niobium phosphate glasses doped with rare earths. , 2003, , .		2
209	Erbium/Ytterbium-activated silica-titania planar and channel waveguides prepared by rf-sputtering. , 2003, , .		2
210	Confocal luminescence microscopy characterization of optical waveguides produced by ion beam irradiation on LiF. , 2003, , .		2
211	Selected papers from ICO XIX. Journal of Optics, 2003, 5, S117-S118.	1.5	0
212	Erbium-activate HfO <sub>2</sub> -based waveguides for photonics. , 2003, 4829, 89.		1
213	Amplified spontaneous emission in e-beam induced LiF:F <sub>2</sub> waveguides. , 2003, 4829, 703.		1
214	Enhanced spectroscopic properties at 1.5 μm in Er <sup>3+</sup> /Yb <sup>3+</sup> -activated silica-titania planar waveguides fabricated by rf-sputtering. , 2003, 4829, 87.		0
215	Thermo-Optical Effects and Fiber Optic Sensing Device Based on Polymer Dispersed Liquid Crystals. Fiber and Integrated Optics, 2003, 22, 1-12.	1.7	0
216	Effect of glass composition on the properties of Er/Yb-doped SiO <sub>2</sub> -GeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glasses for active waveguide application. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
217	Whispering gallery modes in simply made glass microspheres. , 2003, , .		0
218	Sol-gel Er-doped SiO <sub>2</sub> –HfO <sub>2</sub> planar waveguides: A viable system for 1.5 μm application. Applied Physics Letters, 2002, 81, 28-30.	1.5	107
219	Rare-earth-doped glasses and ion-exchanged integrated optical amplifiers and lasers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 721-734.	0.6	10
220	Electro-optical switch and continuously tunable filter based on a Bragg grating in a planar waveguide with a liquid crystal overlayer. Optical Engineering, 2002, 41, 2890.	0.5	42
221	Graded-index profile analysis from M-line, optical polarimetry, and EDS measurements of glass waveguides produced by K <sup>+</sup> /Ag <sup>+</sup> -ion-exchange combinations. , 2002, , .		2
222	Optical waveguides produced in LiF by MeV ion beam bombardment. Applied Physics Letters, 2002, 81, 4103-4105.	1.5	27
223	On a novel mode-solver and beam propagation method based on Galerkin approach and Arnoldi iteration technique. Optical and Quantum Electronics, 2002, 34, 559-575.	1.5	0
224	Title is missing!. Optical and Quantum Electronics, 2002, 34, 559-575.	1.5	0
225	Title is missing!. Optical and Quantum Electronics, 2002, 34, 1151-1166.	1.5	40
226	Erbium-activated silica-titania planar waveguides prepared by rf-sputtering. , 2001, , .		9
227	Improved scalar analysis of integrated optical structures by the mapped Galerkin method and Arnoldi iteration. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 966.	0.8	6
228	Active optical waveguides based on Er- and Er/Yb-doped silicate glasses. Journal of Non-Crystalline Solids, 2001, 284, 223-229.	1.5	59
229	Erbium-activated silica–titania planar waveguides on silica-on-silicon substrates prepared by rf sputtering. Journal of Non-Crystalline Solids, 2001, 284, 230-236.	1.5	35
230	Erbium-activated aluminum fluoride glasses: optical and spectroscopic properties. Journal of Non-Crystalline Solids, 2001, 284, 243-248.	1.5	23
231	<title>Ion exchange in glass: a mature technology for photonic devices</title>. , 2001, 4453, 93.		17
232	Characterization of the near-surface region in ion-exchanged glass waveguides. , 2001, 4277, 99.		0
233	Design of an integrated optical preprocessor for remote sensing applications. , 2001, 4277, 315.		0
234	Erbium-activated monolithic silica xerogels and silica-titania planar waveguides: optical and spectroscopic characterization. , 2001, , .		12

#	ARTICLE	IF	CITATIONS
235	<title>In search of highly effective modeling tools for the CAD of photonic devices and components</title>. , 2001, , .		0
236	Experimental results of transparent, reflective and absorbing properties of some building materials. Energy and Buildings, 2001, 33, 563-568.	3.1	4
237	Strip-Loaded Sol-Gel Waveguides: Design and Fabrication. Fiber and Integrated Optics, 2001, 20, 29-43.	1.7	20
238	Characterization of Er-doped sodium-niobium phosphate glasses. , 2001, 4282, 210.		35
239	Rare-earth-activated fluoride and tellurite glasses: optical and spectroscopic properties. , 2001, , .		26
240	Thermo-optical effects and fiber optic sensing device based on polymer dispersed liquid crystals. , 2001, 4277, 403.		1
241	Optical and spectroscopic characterization of Er/Yb-activated planar waveguides. , 2000, , .		3
242	Realisation and characterisation of LiF/NaF thin film planar waveguides. Thin Solid Films, 2000, 358, 191-195.	0.8	5
243	<title>Germania sol-gel waveguides for optical amplifiers</title>. , 2000, , .		2
244	Experimental Results on a New Integrated Beam Deflector/Switch Based on Liquid Crystals. Molecular Crystals and Liquid Crystals, 1999, 331, 189-199.	0.3	0
245	Optical and surface properties of inorganic and hybrid organicâ€“inorganic silicaâ€“titania solâ€“gel planar waveguides. Journal of Non-Crystalline Solids, 1999, 259, 182-190.	1.5	87
246	Scalar analysis of general dielectric waveguides by Fourier decomposition method. Journal of Lightwave Technology, 1999, 17, 362-368.	2.7	5
247	Fabrication and Characterization of Sol-Gel GeO2-SiO2Erbium-Doped Planar Waveguides. Journal of Sol-Gel Science and Technology, 1998, 13, 535-539.	1.1	25
248	Active stripe waveguides produced by electron beam lithography in LiF single crystals. Optics Communications, 1998, 153, 223-225.	1.0	69
249	Rare-earth-doped sol-gel waveguides: a review. , 1998, , .		13
250	Analysis of step- and graded-index optical waveguides by solving Helmholtz eigenproblem through Fourier analysis and iterative Lanczos reduction. , 1998, 3278, 37.		0
251	<title>Integrated optical switches using liquid crystal cells</title>. , 1998, , .		0
252	<title>Erbium-doped glass waveguides for integrated optical amplifiers and lasers</title>. , 1998, , .		1

#	ARTICLE	IF	CITATIONS
253	Passive and active optical waveguides in LiF thin films. , 1998, 3278, 132.		4
254	Testing of active optical waveguides obtained by diluted silver exchange in Er-doped soda lime silicate glass. , 1998, 3280, 105.		3
255	Integrated electro-optical switch based on nematic liquid crystal. , 1998, , .		1
256	Finite difference mode solver for active optical waveguides. , 1998, , .		0
257	<title>Integrated optical directional couplers: how effective are design and modeling for device production? </title>. , 1997, 2997, 212.		2
258	Size dependence of electron-LO-phonon coupling in semiconductor nanocrystals. Physical Review B, 1996, 53, R10489-R10492.	1.1	134
259	Design and numerical analysis of a silica-on-silicon integrated optical duplexer. , 1996, 2954, 88.		3
260	Characterization of ion-exchanged waveguides in different glasses. , 1996, , .		0
261	Modal analysis of waveguide elements fabricated by postannealing processes. , 1996, , .		1
262	Modeling and near-field measurements of strip-loaded Er-doped sol-gel waveguides. , 1996, , .		7
263	Analysis of modal coupling between glassy and liquid crystal planar waveguides. , 1996, , .		4
264	Direct laser writing of ridge optical waveguides in silica-titania glass sol-gel films. Optical Materials, 1996, 5, 119-126.	1.7	39
265	Birefringence determination in ion-exchanged waveguides. , 1996, , .		1
266	Sol - gel glasses for nonlinear optics. Journal of Optics, 1996, 5, 655-666.	0.5	12
267	Experimental evidence of the Coulomb interaction effects in CdS 1-x Se x quantum dots. , 1995, , .		0
268	Optical phonons and electron-phonon coupling in CdS x Se 1-x quantum dots. , 1995, , .		0
269	Experimental Results on the Light Propagation in a Nonlinear Waveguide with Nematic Liquid Crystal: Hybrid Alignment Case. Molecular Crystals and Liquid Crystals, 1995, 266, 269-276.	0.3	3
270	Raman scattering in CdTe <sub>1-x</sub> Se <sub>x</sub> and CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals embedded in glass. Superlattices and Microstructures, 1994, 16, 51-54.	1.4	27



#	ARTICLE	IF	CITATIONS
271	<title>Testing of optical waveguides (TOW) cooperative project: preliminary results of the characterization of k-exchanged waveguides</title>. , 1994, , .		7
272	<title>Buried waveguides fabricated by a purely thermal ion back diffusion in glass and assisted by electric field: a new model</title>. , 1994, , .		1
273	<title>Waveguide Fresnel lens with multiple phase shifts</title>. , 1994, , .		0
274	<title>Twenty-five years of integrated optics: where we are and where we will go</title>. , 1994, 2212, 2.		1
275	<title>Transversally multimodal 1x4 branch coupler in glass: experimental characterization and BPM</title>. , 1994, 2212, 539.		0
276	CdS- and PbS-doped silica-titania optical waveguides. , 1994, 2288, 174.		15
277	Structural characterization of Cd(Se, S)-doped glasses. Journal of Non-Crystalline Solids, 1992, 142, 63-69.	1.5	7
278	GRIN™91: gradient-index optical systems. Applied Optics, 1992, 31, 5157.	2.1	0
279	<title>Ion-exchanged waveguides in semiconductor-doped glasses</title>. , 1991, , .		1
280	Homogeneous thin film lens on LiNbO 3. , 1991, 1362, 899.		0
281	Semiconductor doped glasses: structural and waveguide characterization. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1991, 9, 397-403.	1.7	6
282	Correlation between the structural and optical properties of polydispersed II-VI quantum dots in glass matrix. Journal of Applied Physics, 1991, 70, 6898-6901.	1.1	19
283	Characterization of reactive ion etching of glass and its applications in integrated optics. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 2709-2712.	0.9	45
284	Modal-coupling optimization of integrated optical devices in LiNbO 3. , 1990, , .		2
285	Waveguide Fresnel Lenses For Integrated Optical Processors. , 1990, , .		2
286	Small-angle neutron scattering study of semiconductor microcrystallites in optical glasses. Applied Physics Letters, 1990, 57, 2879-2881.	1.5	25
287	Integrated Optical Components Fabricated By Two-Step Ion-Exchange. Proceedings of SPIE, 1989, , .	0.8	6
288	Design of optical-waveguide homogeneous refracting lenses. Applied Optics, 1988, 27, 4193.	2.1	17

#	ARTICLE	IF	CITATIONS
289	Homogeneous Refracting Lenses for Integrated Optical Circuits. Journal of Modern Optics, 1988, 35, 1029-1048.	0.6	17
290	Passive Integrated Optical Components. Journal of Modern Optics, 1988, 35, 847-848.	0.6	1
291	Integrated Optical Sensors: State-Of-The-Art And Perspectives. Proceedings of SPIE, 1988, , .	0.8	1
292	Multielement Homogeneous Thin-Film Lens Design. , 1987, , .		2
293	Novel Thin-Film Lenses For Integrated Optics. Proceedings of SPIE, 1987, , .	0.8	0
294	Design Of Acircular Refractive Lenses For Integrated Optical Circuits. Proceedings of SPIE, 1987, , .	0.8	0
295	Axially - And Side - Radiating Optical Fibres For Medical Applications. Proceedings of SPIE, 1985, , .	0.8	4
296	Optical Fibres For Medical Applications : Output Beam Shaping. Proceedings of SPIE, 1985, , .	0.8	5
297	Demultiplexing and tapping device using a spherical geodesic lens. Optics Communications, 1985, 54, 87-90.	1.0	3
298	Lens-ended fibers for medical applications: a new fabrication technique. Applied Optics, 1984, 23, 3277.	2.1	35
299	<title>Microlens - Ended Fibres: A New Fabrication Technique</title>. Proceedings of SPIE, 1984, , .	0.8	4
300	<title>Aspherics In Integrated Optics</title>. , 1981, 0235, 27.		1
301	General solution of the problem of perfect geodesic lenses for integrated optics. Journal of the Optical Society of America, 1979, 69, 1248.	1.2	39
302	A family of perfect aspherical geodesic lenses for integrated optical circuits. IEEE Journal of Quantum Electronics, 1979, 15, 1-4.	1.0	14
303	<title>Signal Processing in Integrated Optics Employing Geodesic Lenses</title>. Proceedings of SPIE, 1979, 0164, 20.	0.8	3
304	KOR negative photoresist in integrated optics. Optical and Quantum Electronics, 1975, 7, 447-450.	1.5	4
305	Opal-Type Photonic Crystals: Fabrication and Application. Advances in Science and Technology, 0, , .	0.2	3
306	Whispering Gallery Mode Microresonators for Biosensing. Advances in Science and Technology, 0, , .	0.2	3