

Maurizio Ferrari

List of Publications by Year in descending order

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560
papers

10,111
citations

50276

46
h-index

95266

68
g-index

571
all docs

571
docs citations

571
times ranked

8348
citing authors

#	ARTICLE	IF	CITATIONS
1	Spherical whispering gallery mode microresonators. Laser and Photonics Reviews, 2010, 4, 457-482.	8.7	384
2	Fabrication and characterization of nanoscale, Er ³⁺ -doped, ultratransparent oxy-fluoride glass ceramics. Applied Physics Letters, 2002, 81, 1937-1939.	3.3	213
3	Luminescence of Eu ³⁺ ions during thermal densification of SiO ₂ gel. Journal of Materials Research, 1992, 7, 745-753.	2.6	144
4	Erbium-doped tellurite glasses with high quantum efficiency and broadband stimulated emission cross section at 1.5 μ m. Optical Materials, 2003, 21, 743-748.	3.6	139
5	Clustering of rare earth in glasses, aluminum effect: experiments and modeling. Journal of Non-Crystalline Solids, 2004, 348, 44-50.	3.1	122
6	Mechanisms of Ag to Er energy transfer in silicate glasses: A photoluminescence study. Physical Review B, 2007, 75, .	3.2	121
7	Erbium-activated HfO ₂ -based waveguides for photonics. Optical Materials, 2004, 25, 131-139.	3.6	116
8	Sol-gel Er-doped SiO ₂ -HfO ₂ planar waveguides: A viable system for 1.5 μ m application. Applied Physics Letters, 2002, 81, 28-30.	3.3	107
9	Spectroscopic investigation of zinc borate glasses doped with trivalent europium ions. Journal of Non-Crystalline Solids, 1996, 201, 211-221.	3.1	106
10	Low optical loss planar waveguides prepared in an organic-inorganic hybrid system. Applied Physics Letters, 2000, 77, 3502-3504.	3.3	104
11	Diamond photonics platform enabled by femtosecond laser writing. Scientific Reports, 2016, 6, 35566.	3.3	96
12	Optical investigation of Eu ³⁺ in a sodium borosilicate glass: Evidence for two different site distributions. Physical Review B, 1996, 53, 6225-6234.	3.2	80
13	Luminescence and Amplified Stimulated Emission in CdSe-ZnS-Nanocrystal-Doped TiO ₂ and ZrO ₂ Waveguides. Advanced Functional Materials, 2007, 17, 1654-1662.	14.9	77
14	Optical spectroscopy of zinc borate glass activated by Pr ³⁺ ions. Journal of Non-Crystalline Solids, 1998, 231, 178-188.	3.1	74
15	Coenzyme A corrects pathological defects in human neurons of <i>PANK2</i> -associated neurodegeneration. EMBO Molecular Medicine, 2016, 8, 1197-1211.	6.9	74
16	Low wavenumber Raman scattering of nanoparticles and nanocomposite materials. Journal of Raman Spectroscopy, 2007, 38, 647-659.	2.5	73
17	Design of photonic structures by sol-gel-derived silica nanospheres. Journal of Non-Crystalline Solids, 2007, 353, 674-678.	3.1	69
18	Enhanced fluorescence from Eu ³⁺ in low-loss silica glass-ceramic waveguides with high SnO ₂ content. Applied Physics Letters, 2008, 93, .	3.3	69

#	ARTICLE	IF	CITATIONS
19	Dysprosium-Doped Chalcogenide Master Oscillator Power Amplifier (MOPA) for Mid-IR Emission. Journal of Lightwave Technology, 2017, 35, 265-273.	4.6	69
20	High quality factor 1-D Er ³⁺ -activated dielectric microcavity fabricated by RF-sputtering. Optics Express, 2012, 20, 21214.	3.4	64
21	Investigation on the Electronic and Optical Properties of Short Oxidized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 11068-11073.	3.1	63
22	Design of an Efficient Pumping Scheme for Mid-IR Dy ³⁺ :Ga ₅ Ge ₂₀ Sb ₁₀ S ₆₅ PCF Fiber Laser. IEEE Photonics Technology Letters, 2016, 28, 1984-1987.	2.5	63
23	Detection and size determination of Ag nanoclusters in ion-exchanged soda-lime glasses by waveguided Raman spectroscopy. Journal of Applied Physics, 1996, 79, 2055-2059.	2.5	62
24	Active optical waveguides based on Er- and Er/Yb-doped silicate glasses. Journal of Non-Crystalline Solids, 2001, 284, 223-229.	3.1	59
25	Self-absorption and radiation trapping in Er ³⁺ -doped TeO ₂ -based glasses. Europhysics Letters, 2005, 71, 394-399.	2.0	59
26	Integrated waveguides and deterministically positioned nitrogen vacancy centers in diamond created by femtosecond laser writing. Optics Letters, 2018, 43, 3586.	3.3	59
27	Granulosa cell and oocyte mitochondrial abnormalities in a mouse model of fragile X primary ovarian insufficiency. Molecular Human Reproduction, 2016, 22, 384-396.	2.8	58
28	Sol-gel-derived Er-activated SiO ₂ -HfO ₂ planar waveguides for 1.5 μ m application. Journal of Non-Crystalline Solids, 2004, 345-346, 580-584.	3.1	56
29	Assessment of spectroscopic properties of erbium ions in a soda-lime silicate glass after silver-sodium exchange. Optical Materials, 2005, 27, 1743-1747.	3.6	56
30	Erbium-activated silica xerogels: spectroscopic and optical properties. Journal of Non-Crystalline Solids, 2001, 280, 261-268.	3.1	55
31	Structural and near-infra red luminescence properties of Nd-doped TiO ₂ films deposited by RF sputtering. Journal of Materials Chemistry, 2012, 22, 22424.	6.7	55
32	Terbium(III) doped silica-xerogels: effect of aluminium(III) co-doping. Journal of Non-Crystalline Solids, 1999, 245, 115-121.	3.1	54
33	Sol-gel-derived photonic structures: fabrication, assessment, and application. Journal of Sol-Gel Science and Technology, 2011, 60, 408-425.	2.4	54
34	Structural and functional brain signatures of C9orf72 in motor neuron disease. Neurobiology of Aging, 2017, 57, 206-219.	3.1	54
35	Analysis of Clinically Relevant Single-Nucleotide Polymorphisms by Use of Microelectronic Array Technology. Clinical Chemistry, 2002, 48, 2124-2130.	3.2	53
36	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.	3.1	53

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37	Tb ³⁺ /Yb ³⁺ codoped silica-hafnia glass and glass-ceramic waveguides to improve the efficiency of photovoltaic solar cells. <i>Optical Materials</i> , 2016, 52, 62-68.	3.6	53
38	Pulsed laser deposition of active waveguides. <i>Thin Solid Films</i> , 2003, 433, 39-44.	1.8	52
39	Investigation of the role of silver on spectroscopic features of Er ³⁺ -activated Ag-exchanged silicate and phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1738-1742.	3.1	52
40	Low-loss optical Er ³⁺ -activated glass-ceramics planar waveguides fabricated by bottom-up approach. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	50
41	Erbium activated HfO ₂ based glass-ceramics waveguides for photonics. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 494-497.	3.1	50
42	Quantum Confinement and Matrix Effects in Silver-Exchanged Soda Lime Glasses. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4445-4450.	3.1	50
43	Exome sequencing and pathway analysis for identification of genetic variability relevant for bronchopulmonary dysplasia (BPD) in preterm newborns: A pilot study. <i>Clinica Chimica Acta</i> , 2015, 451, 39-45.	1.1	49
44	Visible to NIR downconversion process in Tb ³⁺ -Yb ³⁺ codoped silica-hafnia glass and glass-ceramic sol-gel waveguides for solar cells. <i>Journal of Luminescence</i> , 2018, 193, 44-50.	3.1	49
45	ADCY10 frameshift variant leading to severe recessive asthenozoospermia and segregating with absorptive hypercalciuria. <i>Human Reproduction</i> , 2019, 34, 1155-1164.	0.9	49
46	Glass-Ceramic Materials for Guided-Wave Optics. <i>International Journal of Applied Glass Science</i> , 2015, 6, 240-248.	2.0	48
47	Investigations of the effects of the growth of SnO ₂ nanoparticles on the structural properties of glass-ceramic planar waveguides using Raman and FTIR spectroscopies. <i>Journal of Molecular Structure</i> , 2010, 976, 314-319.	3.6	47
48	Tb ³⁺ /Yb ³⁺ co-activated Silica-Hafnia glass ceramic waveguides. <i>Optical Materials</i> , 2010, 33, 227-230.	3.6	47
49	Incorporation of a highly luminescent semiconductor quantum dot in ZrO ₂ -SiO ₂ hybrid sol-gel glass film. <i>Journal of Materials Chemistry</i> , 2004, 14, 1112-1116.	6.7	46
50	Effects of Tm ³⁺ Additions on the Crystallization of LaF ₃ Nanocrystals in Oxyfluoride Glasses: Optical Characterization and Up-Conversion. <i>Journal of the American Ceramic Society</i> , 2013, 96, 447-457.	3.8	46
51	Stem Cell Modeling of Neuroferritinopathy Reveals Iron as a Determinant of Senescence and Ferroptosis during Neuronal Aging. <i>Stem Cell Reports</i> , 2019, 13, 832-846.	4.8	46
52	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. <i>Advanced Functional Materials</i> , 2008, 18, 3772-3779.	14.9	45
53	Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. <i>Optical Materials</i> , 2015, 50, 229-233.	3.6	45
54	β ² -Thalassemia Microelectronic Chip: A Fast and Accurate Method for Mutation Detection. <i>Clinical Chemistry</i> , 2004, 50, 73-79.	3.2	44

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55	Optical spectroscopy of TeO ₂ -GeO ₂ glasses activated with Er ³⁺ and Tm ³⁺ ions. Journal of Non-Crystalline Solids, 2005, 351, 1759-1763.	3.1	43
56	An alternative method to obtain direct opal photonic crystal structures. Journal of Non-Crystalline Solids, 2009, 355, 1167-1170.	3.1	43
57	Thermal stability and spectroscopic properties of erbium-doped niobic-tungsten-tellurite glasses for laser and amplifier devices. Journal of Luminescence, 2012, 132, 1265-1269.	3.1	43
58	X-linked Parkinsonism with Intellectual Disability caused by novel mutations and somatic mosaicism in RAB39B gene. Parkinsonism and Related Disorders, 2017, 44, 142-146.	2.2	43
59	Titania-based organic-inorganic hybrid planar waveguides. Journal of Alloys and Compounds, 2002, 344, 221-225.	5.5	42
60	Up- and down-conversion in Yb ³⁺ -Pr ³⁺ co-doped fluoride glasses and glass ceramics. Journal of Non-Crystalline Solids, 2013, 377, 105-109.	3.1	42
61	Disorder in Photonic Structures Induced by Random Layer Thickness. Science of Advanced Materials, 2015, 7, 1207-1212.	0.7	42
62	Effect of Genotypic Resistance on the Virological Response to Highly Active Antiretroviral Therapy in Cerebrospinal Fluid. AIDS Research and Human Retroviruses, 2001, 17, 377-383.	1.1	41
63	Erbium-Activated Silica-Titania Planar Waveguides. Journal of Sol-Gel Science and Technology, 2003, 26, 1033-1036.	2.4	41
64	Tm ³⁺ -activated transparent oxy-fluoride glass-ceramics: structural and spectroscopic properties. Journal of Non-Crystalline Solids, 2004, 345-346, 354-358.	3.1	41
65	High quality factor Er ³⁺ -activated dielectric microcavity fabricated by rf sputtering. Applied Physics Letters, 2006, 89, 171910.	3.3	41
66	Preparation of silver nanoparticles in silica films by combined thermal and electron-beam deposition. Journal of Non-Crystalline Solids, 1995, 191, 101-106.	3.1	40
67	Preparation of SiO ₂ -GeO ₂ : Eu ³⁺ planar waveguides and characterization by waveguide Raman and luminescence spectroscopies. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 363-372.	0.6	40
68	Title is missing!. Optical and Quantum Electronics, 2002, 34, 1151-1166.	3.3	40
69	Nucleation of Titania Nanocrystals in Silica Titania Waveguides. Journal of Sol-Gel Science and Technology, 2003, 26, 241-244.	2.4	40
70	Tin-dioxide nanocrystals as Er ³⁺ luminescence sensitizers: Formation of glass-ceramic thin films and their characterization. Optical Materials, 2017, 63, 95-100.	3.6	40
71	Femtosecond laser written photonic and microfluidic circuits in diamond. JPhys Photonics, 2019, 1, 022001.	4.6	40
72	Peptide-nucleic acid-mediated enriched polymerase chain reaction as a key point for non-invasive prenatal diagnosis of α -thalassemia. Haematologica, 2008, 93, 610-614.	3.5	39

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73	Microelectronic DNA chip for hereditary hyperferritinemia cataract syndrome, a model for large-scale analysis of disorders of iron metabolism. <i>Human Mutation</i> , 2006, 27, 201-208.	2.5	38
74	Er ³⁺ ion dispersion in tellurium oxychloride glasses. <i>Optical Materials</i> , 2007, 29, 503-509.	3.6	38
75	Monolithic rare-earth doped sol-gel tapered rib waveguide laser. <i>Applied Physics Letters</i> , 2008, 92, 221104.	3.3	38
76	Spectroscopy of trivalent europium in gel-derived silica glasses. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992, 65, 251-260.	0.6	37
77	Nucleation of Ga ₂ O ₃ nanocrystals in the K ₂ O-Ga ₂ O ₃ -SiO ₂ glass system. <i>Journal of Applied Physics</i> , 2001, 90, 2522-2527.	2.5	37
78	Erbium doped fluoride glass-ceramics waveguides fabricated by PVD. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3586-3591.	3.1	37
79	Rare-earth-activated glass-ceramic waveguides. <i>Optical Materials</i> , 2010, 32, 1644-1647.	3.6	37
80	Integrated PCR amplification and detection processes on a Lab-on-Chip platform: a new advanced solution for molecular diagnostics. <i>Clinical Chemistry and Laboratory Medicine</i> , 2010, 48, 329-336.	2.3	37
81	The 1-in- <i>X</i> Effect on the Subjective Assessment of Medical Probabilities. <i>Medical Decision Making</i> , 2011, 31, 721-729.	2.4	37
82	Title is missing!. <i>Journal of Materials Science Letters</i> , 2002, 21, 293-295.	0.5	36
83	Denaturing HPLC Profiling of the ABCA4 Gene for Reliable Detection of Allelic Variations. <i>Clinical Chemistry</i> , 2004, 50, 1336-1343.	3.2	36
84	Optical properties of Dy ³⁺ -doped yttrium-aluminium borate. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 465-471.	1.8	36
85	Raman scattering of acoustical modes of silicon nanoparticles embedded in silica matrix. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 161-165.	2.5	36
86	An Overview of Current Microarray-Based Human Globin Gene Mutation Detection Methods. <i>Hemoglobin</i> , 2007, 31, 289-311.	0.8	36
87	Updated clinical overview on cardiac laminopathies: an electrical and mechanical disease. <i>Nucleus</i> , 2018, 9, 380-391.	2.2	36
88	Erbium-activated silica-titania planar waveguides on silica-on-silicon substrates prepared by rf sputtering. <i>Journal of Non-Crystalline Solids</i> , 2001, 284, 230-236.	3.1	35
89	Experimental investigation of photonic band gap influence on enhancement of Raman-scattering in metal-dielectric colloidal crystals. <i>Journal of Applied Physics</i> , 2012, 112, 084303.	2.5	35
90	High-throughput genetic characterization of a cohort of Brugada syndrome patients. <i>Human Molecular Genetics</i> , 2015, 24, 5828-5835.	2.9	35

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91	Er^{3+} and Ce^{3+} Codoped Tellurite Optical Fiber for Lasers and Amplifiers in the Near-Infrared Wavelength Region: Fabrication, Optical Characterization, and Prospects. IEEE Photonics Journal, 2012, 4, 194-204.	2.0	34
92	Optical properties of germanium nanoparticles synthesized by pulsed laser ablation in acetone. Frontiers in Physics, 2014, 2, .	2.1	34
93	From flexible electronics to flexible photonics: A brief overview. Optical Materials, 2021, 115, 111011.	3.6	34
94	Aluminum effect on photoluminescence properties of sol-gel-derived Eu^{3+} -activated silicate glasses. Journal of Non-Crystalline Solids, 2005, 351, 1754-1758.	3.1	33
95	Scanning mutations of the 5'UTR regulatory sequence of I-ferritin by denaturing high-performance liquid chromatography: identification of new mutations. British Journal of Haematology, 2003, 121, 173-179.	2.5	32
96	Erbium-activated silica-zirconia planar waveguides prepared by sol-gel route. Thin Solid Films, 2008, 516, 3094-3097.	1.8	32
97	Controlled Growth of SnO_2 Nanocrystals in Eu^{3+} -Doped $\text{SiO}_2/\text{SnO}_2$ Planar Waveguides: A Spectroscopic Investigation. Journal of Physical Chemistry C, 2009, 113, 21555-21559.	3.1	32
98	High quality factor Er-doped Fabry-Perot microcavities by sol-gel processing. Journal Physics D: Applied Physics, 2009, 42, 205104.	2.8	32
99	Highly ordered films of quaterthiophene grown by seeded supersonic beams. Applied Physics Letters, 2000, 76, 1845-1847.	3.3	31
100	Spectroscopic and lasing properties of Er^{3+} -doped glass microspheres. Journal of Non-Crystalline Solids, 2006, 352, 2360-2363.	3.1	31
101	3-D rare earth-doped colloidal photonic crystals. Optical Materials, 2009, 31, 1315-1318.	3.6	31
102	Quantum Micro-Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation. Advanced Quantum Technologies, 2019, 2, 1900006.	3.9	31
103	Raman and luminescence studies of Tb^{3+} doped monolithic silica xerogels. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 2133-2142.	3.9	30
104	EXAFS studies of the local structure of Er^{3+} ions in silica xerogels co-doped with aluminium. Journal of Non-Crystalline Solids, 2001, 293-295, 112-117.	3.1	30
105	Case report: a subject with a mutation in the ATG start codon of L-ferritin has no haematological or neurological symptoms. Journal of Medical Genetics, 2004, 41, e81-e81.	3.2	30
106	Characterization of a highly photorefractive RF-sputtered $\text{SiO}_2\text{-GeO}_2$ waveguide. Optics Express, 2005, 13, 1696.	3.4	30
107	Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. Ceramics International, 2015, 41, 8655-8659.	4.8	30
108	Expanding the spectrum of genes responsible for hereditary motor neuropathies. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 1171-1179.	1.9	30

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109	Impaired turnover of hyperfused mitochondria in severe axonal neuropathy due to a novel DRP1 mutation. <i>Human Molecular Genetics</i> , 2020, 29, 177-188.	2.9	30
110	Optical spectroscopy of Pr ³⁺ ions in sol-gel derived GeO ₂ -SiO ₂ planar waveguides. <i>Journal of Non-Crystalline Solids</i> , 1999, 245, 129-134.	3.1	29
111	Intrinsic defects and glass stability in Er ³⁺ doped TeO ₂ glasses and the implications for Er ³⁺ -doped tellurite fiber amplifiers. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 296-300.	3.1	29
112	Optimization and Characterization of Rare-Earth-Doped Photonic-Crystal-Fiber Amplifier Using Genetic Algorithm. <i>Journal of Lightwave Technology</i> , 2007, 25, 2135-2142.	4.6	29
113	Silver to erbium energy transfer in phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 498-501.	3.1	29
114	Origin of Rayleigh scattering and anomaly of elastic properties in vitreous and molten GeO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3049-3058.	3.1	29
115	Er ³⁺ -doped silica-hafnia films for optical waveguides and spherical resonators. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1853-1860.	3.1	29
116	Investigation of upconversion luminescence in Yb ³⁺ /Tm ³⁺ /Ho ³⁺ triply doped antimony-germanate glass and double-clad optical fiber. <i>Optical Materials</i> , 2016, 58, 279-284.	3.6	29
117	Photonic Crystal Stimuli-Responsive Chromatic Sensors: A Short Review. <i>Micromachines</i> , 2020, 11, 290.	2.9	29
118	Er ³⁺ -doped tellurite waveguides deposited by excimer laser ablation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 105, 65-69.	3.5	28
119	Reversible photoluminescence quenching in Er ³⁺ -doped silica-titania planar waveguides prepared by sol-gel. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 272-277.	3.1	28
120	Erbium-doped silicate glasses for integrated optical amplifiers and lasers. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 372-376.	3.1	28
121	CO ₂ Laser irradiation of GeO ₂ planar waveguide fabricated by rf-sputtering. <i>Optical Materials Express</i> , 2013, 3, 1561.	3.0	28
122	Environment segregation of Er ³⁺ emission in bulk sol-gel-derived SiO ₂ -SnO ₂ glass ceramics. <i>Journal of Materials Science</i> , 2014, 49, 8226-8233.	3.7	28
123	Silver doping of silica-hafnia waveguides containing Tb ³⁺ /Yb ³⁺ rare earths for downconversion in PV solar cells. <i>Optical Materials</i> , 2016, 60, 264-269.	3.6	28
124	Gold nanoparticles 1D array as mechanochromic strain sensor. <i>Materials Chemistry and Physics</i> , 2017, 192, 94-99.	4.0	28
125	Rare-earth-doped glasses and ion-exchanged integrated optical amplifiers and lasers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 721-734.	0.6	27
126	Local structure around Er^{3+} in SiO_2 - SnO_2 glass ceramics. <i>Journal of Materials Science</i> , 2014, 49, 8226-8233.	3.2	27

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127	Spectroscopy and optical characterization of thulium doped TZN glasses. Journal Physics D: Applied Physics, 2010, 43, 135104.	2.8	27
128	Rare earth-activated glass-ceramic in planar format. Optical Engineering, 2011, 50, 071105.	1.0	27
129	Tailoring of the free spectral range and geometrical cavity dispersion of a microsphere by a coating layer. Optics Letters, 2014, 39, 5173.	3.3	27
130	Prospective evaluation of RASSF1A cell-free DNA as a biomarker of pre-eclampsia. Placenta, 2015, 36, 996-1001.	1.5	27
131	Coherent emission from fully Er ³⁺ -doped monolithic 1-D dielectric microcavity fabricated by rf-sputtering. Optical Materials, 2019, 87, 107-111.	3.6	27
132	Yellow-to-blue frequency upconversion in Pr ³⁺ -doped aluminium fluoride glasses. Journal of Non-Crystalline Solids, 2001, 280, 269-276.	3.1	26
133	Rare-earth-activated fluoride and tellurite glasses: optical and spectroscopic properties. , 2001, , .		26
134	Optical Nanocomposite Planar Waveguides Doped with Rare-Earth and Noble Metal Elements. Journal of Sol-Gel Science and Technology, 2003, 26, 891-896.	2.4	26
135	Design of Er ³⁺ -doped SiO ₂ /TiO ₂ planar waveguide amplifier. Journal of Non-Crystalline Solids, 2003, 322, 278-283.	3.1	26
136	Spectroscopic assessment of silica-titania and silica-hafnia planar waveguides. Philosophical Magazine, 2004, 84, 1659-1666.	1.6	26
137	Investigation of structural and optical properties of sputtered Zirconia thin films. EPJ Applied Physics, 2008, 43, 363-368.	0.7	26
138	COLD-PCR and microarray: two independent highly sensitive approaches allowing the identification of fetal paternally inherited mutations in maternal plasma. Journal of Medical Genetics, 2016, 53, 481-487.	3.2	26
139	Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. Micromachines, 2017, 8, 60.	2.9	26
140	Er ³⁺ /Yb ³⁺ -activated silica-titania planar waveguides for EDPWAs fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2003, 322, 289-294.	3.1	25
141	Rare-earth doped photonic crystal microcavities prepared by sol-gel. Journal of Non-Crystalline Solids, 2007, 353, 490-493.	3.1	25
142	Synthesis, structure and spectroscopic properties of luminescent GdVO ₄ :Dy ³⁺ and DyVO ₄ particles. Optical Materials, 2018, 76, 308-316.	3.6	25
143	The role of clinical and neuroimaging features in the diagnosis of CADASIL. Journal of Neurology, 2018, 265, 2934-2943.	3.6	25
144	Crystallization of silica xerogels: A study by raman and fluorescence spectroscopy. Journal of Sol-Gel Science and Technology, 1997, 8, 391-395.	2.4	24

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145	Fluorescence line narrowing study of Cr ions in cordierite glass nucleating MgAlO nanocrystals. <i>Optical Materials</i> , 2000, 13, 373-379.	3.6	24
146	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205106.	2.8	24
147	Controlled SnO ₂ nanocrystal growth in SiO ₂ –SnO ₂ glass–ceramic monoliths. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 869-875.	2.5	24
148	Structural and spectroscopic properties of Eu ³⁺ -activated nanocrystalline tetraphosphates loaded in silica–hafnia thin film. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 32-35.	3.1	24
149	Photoluminescence and lasing in whispering gallery mode glass microspherical resonators. <i>Journal of Luminescence</i> , 2016, 170, 755-760.	3.1	24
150	Waveguide Raman spectroscopy: a non-destructive tool for the characterization of amorphous thin films. <i>Journal of Molecular Structure</i> , 1999, 480-481, 169-178.	3.6	23
151	Erbium-activated aluminum fluoride glasses: optical and spectroscopic properties. <i>Journal of Non-Crystalline Solids</i> , 2001, 284, 243-248.	3.1	23
152	Erbium-doped GeO ₂ –TiO ₂ sol–gel waveguides. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 295-299.	3.1	23
153	Analysis of ferritin genes in Parkinson disease. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007, 45, 1450-6.	2.3	23
154	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.	3.1	23
155	X-ray photoelectron spectroscopy of Er ³⁺ -activated SiO ₂ –HfO ₂ glass-ceramic waveguides. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 015408.	2.8	23
156	Titanate Nanosheets as High Refractive Layer in Vertical Microcavity Incorporating Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18423-18428.	3.1	23
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