

Maurizio Ferrari

List of Publications by Year in descending order

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560
papers

10,111
citations

50276

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95266

68
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571
all docs

571
docs citations

571
times ranked

8348
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Structure- and excitation-dependent photoluminescence of As ³⁺ :Yb ³⁺ films. <i>Optical Materials</i> , 2022, 124, 111971. | 3.6 | 1 |
| 2 | Rare-earth activated SnO ₂ photoluminescent thin films on flexible glass: Synthesis, deposition and characterization. <i>Optical Materials</i> , 2022, 124, 111978. | 3.6 | 13 |
| 3 | Comparison of energy transfer between Terbium and Ytterbium ions in glass and glass ceramic: Application in photovoltaic. <i>Solar Energy Advances</i> , 2022, 2, 100012. | 3.0 | 0 |
| 4 | Eu ³⁺ as a Powerful Structural and Spectroscopic Tool for Glass Photonics. <i>Materials</i> , 2022, 15, 1847. | 2.9 | 7 |
| 5 | Application of collector pressing method to manufacture various optically transparent oxide ceramics using SPS technique. <i>Optical Materials</i> , 2022, 128, 112332. | 3.6 | 1 |
| 6 | Sol-gel-derived transparent glass-ceramics for photonics. <i>Optical Materials</i> , 2022, 130, 112577. | 3.6 | 5 |
| 7 | Assessment of SnO ₂ -nanocrystal-based luminescent glass-ceramic waveguides for integrated photonics. <i>Ceramics International</i> , 2021, 47, 5534-5541. | 4.8 | 17 |
| 8 | Generation of Î ² Cells from iPSC of a MODY8 Patient with a Novel Mutation in the Carboxyl Ester Lipase (<i>CEL</i>) Gene. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e2322-e2333. | 3.6 | 11 |
| 9 | Current scenario of the genetic testing for rare neurological disorders exploiting next generation sequencing. <i>Neural Regeneration Research</i> , 2021, 16, 475. | 3.0 | 6 |
| 10 | Upconversion Luminescence of Silicaâ€“Calcium Nanoparticles Co-doped with Tm ³⁺ and Yb ³⁺ Ions. <i>Materials</i> , 2021, 14, 937. | 2.9 | 23 |
| 11 | Manufacturing Optically Transparent Thick Zirconia Ceramics by Spark Plasma Sintering with the Use of Collector Pressing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1304. | 2.5 | 6 |
| 12 | Luminescent Ink Based on Upconversion of NaYF ₄ :Er,Yb@MA Nanoparticles: Environmental Friendly Synthesis and Structural and Spectroscopic Assessment. <i>Molecules</i> , 2021, 26, 1041. | 3.8 | 6 |
| 13 | Fluoroindate Glass Co-Doped with Yb ³⁺ /Ho ³⁺ as a 2.85 Î¼m Luminescent Source for MID-IR Sensing. <i>Sensors</i> , 2021, 21, 2155. | 3.8 | 14 |
| 14 | From flexible electronics to flexible photonics: A brief overview. <i>Optical Materials</i> , 2021, 115, 111011. | 3.6 | 34 |
| 15 | Design, fabrication and assessment of an optomechanical sensor for pressure and vibration detection using flexible glass multilayers. <i>Optical Materials</i> , 2021, 115, 111023. | 3.6 | 7 |
| 16 | Tungsten oxide films by radio-frequency magnetron sputtering for near-infrared photonics. <i>Optical Materials: X</i> , 2021, 12, 100093. | 0.8 | 0 |
| 17 | Phoxonic glass cavities based on whispering gallery mode resonators. <i>Optical Materials: X</i> , 2021, 12, 100120. | 0.8 | 0 |
| 18 | Enhanced photorefractivity and rare-earth photoluminescence in SnO ₂ nanocrystals-based photonic glass-ceramics. <i>EPJ Web of Conferences</i> , 2021, 255, 05001. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Glass ceramics for frequency conversion. , 2020, , 391-414. | | 5 |
| 21 | A novel homozygous mutation in the TRDN gene causes a severe form of pediatric malignant ventricular arrhythmia. <i>Heart Rhythm</i> , 2020, 17, 296-304. | 0.7 | 11 |
| 22 | MSH6 gene pathogenic variant identified in familial pancreatic cancer in the absence of colon cancer. <i>European Journal of Gastroenterology and Hepatology</i> , 2020, 32, 345-349. | 1.6 | 5 |
| 23 | Modification of the Near-Infrared Spontaneous Emission in Er ³⁺ -Activated Inverse Silica Opals. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900476. | 1.5 | 1 |
| 24 | SiO ₂ -SnO ₂ :Er ³⁺ planar waveguides: Highly photorefractive glass-ceramics. <i>Optical Materials: X</i> , 2020, 7, 100056. | 0.8 | 3 |
| 25 | Rare earth elements and urban mines: Critical strategies for sustainable development. <i>Ceramics International</i> , 2020, 46, 26247-26250. | 4.8 | 17 |
| 26 | Photonic Crystal Stimuli-Responsive Chromatic Sensors: A Short Review. <i>Micromachines</i> , 2020, 11, 290. | 2.9 | 29 |
| 27 | 3D-photonic crystals: Opal structures. , 2020, , 113-144. | | 0 |
| 28 | Genetic testing in neurology exploiting next generation sequencing: state of art. <i>Neural Regeneration Research</i> , 2020, 15, 265. | 3.0 | 1 |
| 29 | White light emission through energy transfer processes in barium gallo-germanate glasses co-doped with Dy ³⁺ -Ln ³⁺ (Ln =Ce, Tm). <i>Optical Materials</i> , 2019, 87, 63-69. | 3.6 | 17 |
| 30 | Comparison between glass and glass-ceramic silica-hafnia matrices on the down-conversion efficiency of Tb ³⁺ /Yb ³⁺ rare earth ions. <i>Optical Materials</i> , 2019, 87, 102-106. | 3.6 | 19 |
| 31 | Modal properties of an Erbium-doped asymmetric single-mode slab waveguide in the glass-ceramics SnO ₂ -SiO ₂ system. <i>Optical Materials</i> , 2019, 87, 90-93. | 3.6 | 1 |
| 32 | Analytical modelling of Tm-doped tellurite glass including cross-relaxation process. <i>Optical Materials</i> , 2019, 87, 29-34. | 3.6 | 2 |
| 33 | Coherent emission from fully Er ³⁺ doped monolithic 1-D dielectric microcavity fabricated by rf-sputtering. <i>Optical Materials</i> , 2019, 87, 107-111. | 3.6 | 27 |
| 34 | Rare-earth doped glasses and light managing in solar cells. <i>Journal of Physics: Conference Series</i> , 2019, 1221, 012028. | 0.4 | 5 |
| 35 | Synthesis and Post-Annealing of Cu ₂ ZnSnS ₄ Absorber Layers Based on Oleylamine/1-dodecanethiol. <i>Materials</i> , 2019, 12, 3320. | 2.9 | 16 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Novel SCN5A p.W697X Nonsense Mutation Segregation in a Family with Brugada Syndrome. International Journal of Molecular Sciences, 2019, 20, 4920. | 4.1 | 7 |
| 38 | SiO ₂ -SnO ₂ Photonic Glass-Ceramics. , 2019, , . | | 1 |
| 39 | ADCY10 frameshift variant leading to severe recessive asthenozoospermia and segregating with absorptive hypercalciuria. Human Reproduction, 2019, 34, 1155-1164. | 0.9 | 49 |
| 40 | Genotype/Phenotype Relationship in a Consanguineal Family With Brugada Syndrome Harboring the R1632C Missense Variant in the SCN5A Gene. Frontiers in Physiology, 2019, 10, 666. | 2.8 | 11 |
| 41 | Expanding the spectrum of genes responsible for hereditary motor neuropathies. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 1171-1179. | 1.9 | 30 |
| 42 | Quantum Micro- Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation. Advanced Quantum Technologies, 2019, 2, 1900006. | 3.9 | 31 |
| 43 | New molecular approaches to Alzheimer's disease. Clinical Biochemistry, 2019, 72, 81-86. | 1.9 | 18 |
| 44 | Femtosecond laser written photonic and microfluidic circuits in diamond. JPhys Photonics, 2019, 1, 022001. | 4.6 | 40 |
| 45 | Colloidal crystals based portable chromatic sensor for butanol isomers and water mixtures detection. Optical Materials, 2019, 90, 152-158. | 3.6 | 12 |
| 46 | Influence of the rare earth ions concentration on luminescence properties of barium gallo-germanate glasses for white lighting. Journal of Luminescence, 2019, 211, 375-381. | 3.1 | 16 |
| 47 | Low-Threshold Coherent Emission at 1.5 Åµm from Fully Er ³⁺ Doped Monolithic 1D Dielectric Microcavity Fabricated Using Radio Frequency Sputtering. Ceramics, 2019, 2, 74-85. | 2.6 | 4 |
| 48 | Impaired testicular signaling of vitamin A and vitamin K contributes to the aberrant composition of the extracellular matrix in idiopathic germ cell aplasia. Fertility and Sterility, 2019, 111, 687-698. | 1.0 | 22 |
| 49 | Up-conversion luminescence of RE ³⁺ -doped polymer composites KGd(WO ₄) ₂ &PMMA. Optical Materials, 2019, 88, 366-371. | 3.6 | 9 |
| 50 | Evaluation of three advanced methodologies, COLD-PCR, microarray and ddPCR, for identifying the mutational status by liquid biopsies in metastatic colorectal cancer patients. Clinica Chimica Acta, 2019, 489, 136-143. | 1.1 | 18 |
| 51 | Lasing and mode selection in erbium doped 70SiO ₂ -30HfO ₂ coated microspheres. Optical Materials, 2019, 87, 98-101. | 3.6 | 3 |
| 52 | Fabrication, modelling and assessment of hybrid 1-D elastic Fabry Perot microcavity for mechanical sensing applications. Ceramics International, 2019, 45, 7785-7788. | 4.8 | 16 |
| 53 | SiO ₂ -SnO ₂ transparent glass-ceramics activated by rare earth ions. , 2019, , . | | 4 |
| 54 | Passive and active whispering gallery mode microresonators in optical engineering. , 2019, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Polarized micro-Raman studies of femtosecond laser written stress-induced optical waveguides in diamond. Applied Physics Letters, 2018, 112, . | 3.3 | 21 |
| 56 | Synthesis, structure and spectroscopic properties of luminescent GdVO ₄ :Dy ³⁺ and DyVO ₄ particles. Optical Materials, 2018, 76, 308-316. | 3.6 | 25 |
| 57 | Photonic band edge assisted spontaneous emission enhancement from all Er ³⁺ 1-D photonic band gap structure. Optical Materials, 2018, 80, 106-109. | 3.6 | 10 |
| 58 | Structural-microstructural characterization and optical properties of Eu ³⁺ ,Tb ³⁺ -codoped LaPO ₄ ·nH ₂ O and LaPO ₄ nanorods hydrothermally synthesized with microwaves. Ceramics International, 2018, 44, 11993-12001. | 4.8 | 14 |
| 59 | Yb ³⁺ concentration influences UV-Vis to NIR energy conversion in nanostructured Pr ³⁺ and Yb ³⁺ co-doped SiO ₂ -Nb ₂ O ₅ materials for photonics. Journal of Luminescence, 2018, 199, 454-460. | 3.1 | 7 |
| 60 | Blue to NIR down-conversion in Tm ³⁺ /Yb ³⁺ -codoped fluorozirconate glasses compared to Pr ³⁺ /Yb ³⁺ ion-pair. Journal of Luminescence, 2018, 193, 22-28. | 3.1 | 14 |
| 61 | Visible to NIR downconversion process in Tb ³⁺ -Yb ³⁺ codoped silica-hafnia glass and glass-ceramic sol-gel waveguides for solar cells. Journal of Luminescence, 2018, 193, 44-50. | 3.1 | 49 |
| 62 | Fractional-Order Theory of Thermoelasticity. I: Generalization of the Fourier Equation. Journal of Engineering Mechanics - ASCE, 2018, 144, 04017164. | 2.9 | 5 |
| 63 | Fractional-Order Theory of Thermoelasticity. II: Quasi-Static Behavior of Bars. Journal of Engineering Mechanics - ASCE, 2018, 144, 04017165. | 2.9 | 1 |
| 64 | Fluorescent Aptamer Immobilization on Inverse Colloidal Crystals. Sensors, 2018, 18, 4326. | 3.8 | 12 |
| 65 | Laser surface structuring of diamond with ultrashort Bessel beams. Scientific Reports, 2018, 8, 14021. | 3.3 | 23 |
| 66 | Ag-Sensitized Yb ³⁺ Emission in Glass-Ceramics. Micromachines, 2018, 9, 380. | 2.9 | 10 |
| 67 | Effect of Modifiers on Optical and Structural Properties of Barium Gallo-Germanate Glasses Doped with RE Ions. , 2018, , . | | 0 |
| 68 | The role of clinical and neuroimaging features in the diagnosis of CADASIL. Journal of Neurology, 2018, 265, 2934-2943. | 3.6 | 25 |
| 69 | 2D Optical Gratings Based on Hexagonal Voids on Transparent Elastomeric Substrate. Micromachines, 2018, 9, 345. | 2.9 | 14 |
| 70 | Quasi-hemispherical voids micropatterned PDMS as strain sensor. Optical Materials, 2018, 86, 408-413. | 3.6 | 8 |
| 71 | About the Implementation of Frequency Conversion Processes in Solar Cell Device Simulations. Micromachines, 2018, 9, 435. | 2.9 | 7 |
| 72 | Updated clinical overview on cardiac laminopathies: an electrical and mechanical disease. Nucleus, 2018, 9, 380-391. | 2.2 | 36 |

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|----|---|-----|-----------|
| 73 | Integrated waveguides and deterministically positioned nitrogen vacancy centers in diamond created by femtosecond laser writing. <i>Optics Letters</i> , 2018, 43, 3586. | 3.3 | 59 |
| 74 | Ag nanoaggregates as efficient broadband sensitizers for Tb ³⁺ ions in silica-zirconia ion-exchanged sol-gel glasses and glass-ceramics. <i>Optical Materials</i> , 2018, 84, 668-674. | 3.6 | 14 |
| 75 | Sol-Gel-Derived SnO ₂ -Based Photonic Systems. , 2018, , 2301-2319. | | 0 |
| 76 | Lasing in Er ³⁺ doped microspheres. , 2018, , . | | 0 |
| 77 | SiO ₂ -SnO ₂ :Er ³⁺ Glass-Ceramic Monoliths. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1335. | 2.5 | 22 |
| 78 | Luminescent sol-gel-derived micro and nanoparticles. , 2018, , . | | 1 |
| 79 | Role of Ag multimers as broadband sensitizers in Tb ³⁺ /Yb ³⁺ co-doped glass-ceramics. , 2018, , . | | 1 |
| 80 | Femtosecond laser written diamond photonics. , 2018, , . | | 0 |
| 81 | Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2018, , 1607-1649. | | 0 |
| 82 | Energy transfer and multicolor emission in germanate glasses containing Ce ³⁺ and Pr ³⁺ for white light-emitting diodes. , 2018, , . | | 0 |
| 83 | SiO ₂ -SnO ₂ :Er ³⁺ transparent glass-ceramics: fabrication and photonic assessment. , 2018, , . | | 1 |
| 84 | Lasing properties of Er ³⁺ activated SiO ₂ -HfO ₂ coated microspheres. , 2018, , . | | 0 |
| 85 | Spectroscopic properties of rare earth doped germanate glasses. , 2018, , . | | 0 |
| 86 | One-dimensional disordered photonic structures with two or more materials. , 2018, , . | | 0 |
| 87 | Glass photonic structures fabricated by sol-gel route. , 2018, , . | | 0 |
| 88 | Synthesis, structure and spectroscopic assessment of luminescent GdVO ₄ :Dy ³⁺ and DyVO ₄ nanoparticles. , 2018, , . | | 1 |
| 89 | Near-infrared emission in barium gallo-germanate glasses doped with Pr ³⁺ and co-doped with Ce ³⁺ and Pr ³⁺ for broadband optical amplifiers. , 2018, , . | | 0 |
| 90 | Fabrication by rf-sputtering and assessment of dielectric Er ³⁺ doped monolithic 1-D microcavity for coherent emission at 1.5 μ m. , 2018, , . | | 0 |

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|-----|--|-----|-----------|
| 91 | SiO ₂ -P ₂ O ₅ -HfO ₂ -Al ₂ O ₃ -Na ₂ O glasses activated by Er ³⁺ ions: From bulk sample to planar waveguide fabricated by rf-sputtering. <i>Optical Materials</i> , 2017, 63, 153-157. | 3.6 | 12 |
| 92 | Crystallization and optical properties of Tm ³⁺ /Yb ³⁺ -co-doped KLaF ₄ glass-ceramics. <i>CrystEngComm</i> , 2017, 19, 967-974. | 2.6 | 13 |
| 93 | Recent advances on pumping schemes for mid-IR PCF lasers. , 2017, , . | | 2 |
| 94 | Tailoring the optical properties of one-dimensional (1D) photonic structures. , 2017, , . | | 0 |
| 95 | Glass and glass-ceramic photonic systems. , 2017, , . | | 2 |
| 96 | Dysprosium-Doped Chalcogenide Master Oscillator Power Amplifier (MOPA) for Mid-IR Emission. <i>Journal of Lightwave Technology</i> , 2017, 35, 265-273. | 4.6 | 69 |
| 97 | Bulk diamond optical waveguides fabricated by focused femtosecond laser pulses. , 2017, , . | | 0 |
| 98 | Finite difference analysis and experimental validation of 3D photonic crystals for structural health monitoring. , 2017, , . | | 2 |
| 99 | Structural and functional brain signatures of C9orf72 in motor neuron disease. <i>Neurobiology of Aging</i> , 2017, 57, 206-219. | 3.1 | 54 |
| 100 | Nanocrystalline lanthanide tetraphosphates: Energy transfer processes in samples co-doped with Pr ³⁺ /Yb ³⁺ and Tm ³⁺ /Yb ³⁺ . <i>Optical Materials</i> , 2017, 74, 159-165. | 3.6 | 7 |
| 101 | Gold nanoparticles 1D array as mechanochromic strain sensor. <i>Materials Chemistry and Physics</i> , 2017, 192, 94-99. | 4.0 | 28 |
| 102 | Advancement of Glass-Ceramic Materials for Photonic Applications. , 2017, , 133-155. | | 1 |
| 103 | Light management in solar cells: Recent advances. , 2017, , . | | 2 |
| 104 | Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , 2017, 72, 626-631. | 3.6 | 6 |
| 105 | Time-resolved photoluminescence studies in Eu-doped SiO ₂ -HfO ₂ -ZnO glass-ceramic waveguides. <i>Ceramics International</i> , 2017, 43, 1145-1149. | 4.8 | 10 |
| 106 | Tin-dioxide nanocrystals as Er ³⁺ luminescence sensitizers: Formation of glass-ceramic thin films and their characterization. <i>Optical Materials</i> , 2017, 63, 95-100. | 3.6 | 40 |
| 107 | Pulsed Bessel beam-induced high aspect ratio microstructures on diamond substrate for microfluidics and biosensing applications. , 2017, , . | | 0 |
| 108 | Photoluminescence of antimony-germanate-silicate glass doped with europium ions and silver nanoparticles. , 2017, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | 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 |
| 110 | Pulsed Bessel beam-induced microchannels on a diamond surface for versatile microfluidic and sensing applications. Optical Materials Express, 2017, 7, 1962. | 3.0 | 21 |
| 111 | Determination of reverse cross-relaxation process constant in Tm-doped glass by 3H_4 fluorescence decay tail fitting. Optical Materials Express, 2017, 7, 3760. | 3.0 | 10 |
| 112 | Sol-gel-Derived Glass-Ceramic Photorefractive Films for Photonic Structures. Crystals, 2017, 7, 61. | 2.2 | 18 |
| 113 | Femtosecond laser processing for single NV-waveguide integration in diamond. , 2017, , . | | 0 |
| 114 | Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. Micromachines, 2017, 8, 60. | 2.9 | 26 |
| 115 | Rare Earth Ions Doped Down-conversion Materials for Third Generation Photovoltaic Solar Cells. , 2017, , . | | 1 |
| 116 | Enhancing the absorption cross section of rare earth by silver metallic nanoparticles. , 2017, , . | | 0 |
| 117 | Glass based structures fabricated by rf-sputtering. , 2017, , . | | 0 |
| 118 | Design of an Efficient Pumping Scheme for Mid-IR $Dy^{3+}:Ga_5Ge_{20}Sb_{10}S_{65}$ PCF Fiber Laser. IEEE Photonics Technology Letters, 2016, 28, 1984-1987. | 2.5 | 63 |
| 119 | Sol-gel synthesis and characterization of undoped and Al-doped ZnO thin films for memristive application. AIP Advances, 2016, 6, . | 1.3 | 16 |
| 120 | Glass-based 1-D dielectric microcavities. Optical Materials, 2016, 61, 11-14. | 3.6 | 5 |
| 121 | Tb ³⁺ /Yb ³⁺ Activated Silica-Hafnia Glass and Glass Ceramics to Improve the Efficiency of Photovoltaic Solar Cells. Lecture Notes in Electrical Engineering, 2016, , 475-482. | 0.4 | 0 |
| 122 | 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. | 3.6 | 28 |
| 123 | Highly integrated lab-on-a-chip for fluorescence detection. Optical Engineering, 2016, 55, 097102. | 1.0 | 8 |
| 124 | RF-sputtering derived phosphosilicate planar waveguides activated by Er ³⁺ ions. , 2016, , . | | 0 |
| 125 | Rare-earth doped optical fibers with nano-phase glass-ceramic structures. , 2016, , . | | 2 |
| 126 | Photonic crystal slab strain sensors: A viable tool for structural health monitoring. , 2016, , . | | 0 |

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|-----|--|------|-----------|
| 127 | Phosphate-based glasses and nanostructures. , 2016, , . | | 1 |
| 128 | Towards low voltage resistive switch in sol-gel derived TiO ₂ /Ta ₂ O ₅ stack thin films. Materials and Design, 2016, 105, 359-365. | 7.0 | 13 |
| 129 | Coenzyme A corrects pathological defects in human neurons of <sc>PANK</sc> 2-associated neurodegeneration. EMBO Molecular Medicine, 2016, 8, 1197-1211. | 6.9 | 74 |
| 130 | Challenges and future trends in fiber lasers. , 2016, , . | | 5 |
| 131 | Numerical modeling of the impact of pump wavelength on Yb-doped fiber amplifier performance. Optical and Quantum Electronics, 2016, 48, 1. | 3.3 | 7 |
| 132 | Diamond photonics platform enabled by femtosecond laser writing. Scientific Reports, 2016, 6, 35566. | 3.3 | 96 |
| 133 | Femtosecond laser written photonic circuits in diamond for quantum information. , 2016, , . | | 0 |
| 134 | Novel pumping schemes of Mid-IR photonic crystal fiber lasers for aerospace applications. , 2016, , . | | 4 |
| 135 | Effect of increasing temperature on the physical properties of nano-composite phospho-silicate. , 2016, , . | | 0 |
| 136 | Investigation of upconversion luminescence in Yb ³⁺ /Tm ³⁺ /Ho ³⁺ triply doped antimony-germanate glass and double-clad optical fiber. Optical Materials, 2016, 58, 279-284. | 3.6 | 29 |
| 137 | Luminescence and structural analysis of Ce ³⁺ and Er ³⁺ doped and Ce ³⁺ Er ³⁺ codoped Ca ₃ Sc ₂ Si ₃ O ₁₂ garnets: influence of the doping concentration in the energy transfer processes. RSC Advances, 2016, 6, 15054-15061. | 3.6 | 11 |
| 138 | Photoluminescence and lasing in whispering gallery mode glass microspherical resonators. Journal of Luminescence, 2016, 170, 755-760. | 3.1 | 24 |
| 139 | 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 |
| 140 | DNA microarray-based solid-phase PCR on copoly (DMA- <i>NAS</i> -MAPS) silicon coated slides: An example of relevant clinical application. Biosensors and Bioelectronics, 2016, 78, 367-373. | 10.1 | 16 |
| 141 | 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 |
| 142 | Tb ³⁺ /Yb ³⁺ codoped silica-hafnia glass and glass-ceramic waveguides to improve the efficiency of photovoltaic solar cells. Optical Materials, 2016, 52, 62-68. | 3.6 | 53 |
| 143 | Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2016, , 1-43. | | 3 |
| 144 | Sol-Gel-Derived SnO ₂ -Based Photonic Systems. , 2016, , 1-19. | | 1 |

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|-----|---|-----|-----------|
| 145 | Enhancing photovoltaic performance of silicon solar cells by rare earth doped glass ceramic. , 2015, , . | | 0 |
| 146 | Thermo optical coefficient of tin-oxide films measured by ellipsometry. Journal of Applied Physics, 2015, 118, . | 2.5 | 9 |
| 147 | Tailoring the Structure and Luminescence of Nanostructured Er ³⁺ and Er ³⁺ /Yb ³⁺ -Activated Hafnia-Based Systems. Journal of the American Ceramic Society, 2015, 98, 3136-3144. | 3.8 | 3 |
| 148 | Comparison of photodarkening in 1030nm and 1070nm Yb-doped fibre lasers. Proceedings of SPIE, 2015, , . | 0.8 | 1 |
| 149 | Photonic glass-ceramics: consolidated outcomes and prospects. , 2015, , . | | 4 |
| 150 | CO ₂ Laser irradiation of GeO ₂ planar waveguide fabricated by rf-sputtering. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012006. | 0.6 | 6 |
| 151 | Modeling of Whispering Gallery Modes for Rare Earth Spectroscopic Characterization. IEEE Photonics Technology Letters, 2015, 27, 1861-1863. | 2.5 | 22 |
| 152 | Strain-sensitive photonic crystals for sensing applications in structural health monitoring. , 2015, , . | | 0 |
| 153 | Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. Optical Materials, 2015, 50, 229-233. | 3.6 | 45 |
| 154 | Photodarkening and photobleaching impact on 1030 nm fiber laser emission. Journal of Optics (United Kingdom) 17, 022202. doi:10.1088/1751-8758/17/2/022202 | 2.2 | 4 |
| 155 | Downconversion in Pr ³⁺ /Yb ³⁺ co-doped ZBLA fluoride glasses. Journal of Luminescence, 2015, 161, 198-201. | 3.1 | 21 |
| 156 | New trend in non-invasive prenatal diagnosis. Clinica Chimica Acta, 2015, 451, 9-13. | 1.1 | 16 |
| 157 | Exome sequencing and pathway analysis for identification of genetic variability relevant for bronchopulmonary dysplasia (BPD) in preterm newborns: A pilot study. Clinica Chimica Acta, 2015, 451, 39-45. | 1.1 | 49 |
| 158 | Morphologic, structural, and optical characterization of sol-gel derived TiO ₂ thin films for memristive devices. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 192-196. | 0.8 | 15 |
| 159 | Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures. Ceramics International, 2015, 41, 7429-7433. | 4.8 | 22 |
| 160 | Prospective evaluation of RASSF1A cell-free DNA as a biomarker of pre-eclampsia. Placenta, 2015, 36, 996-1001. | 1.5 | 27 |
| 161 | High-throughput genetic characterization of a cohort of Brugada syndrome patients. Human Molecular Genetics, 2015, 24, 5828-5835. | 2.9 | 35 |
| 162 | Optical properties of one-dimensional disordered multilayer photonic structures. , 2015, , . | | 3 |

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|-----|--|-----|-----------|
| 163 | Fabrication and optical properties of assembled gold nanoparticles film on elastomeric substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 482, 431-437. | 4.7 | 13 |
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