

Cristina Gheorghe

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Energy transfer and luminescent properties of Tb ³⁺ and Tb ³⁺ , Yb ³⁺ doped CNGG phosphors. Journal of Rare Earths, 2022, 40, 1445-1453. | 4.8 | 8 |
| 2 | Optical thermometry through infrared excited green upconversion emissions of Er ³⁺ -Yb ³⁺ co-doped LaAlO ₃ phosphors. Journal of Luminescence, 2022, 242, 118602. | 3.1 | 14 |
| 3 | Growth and characterization of 3.5 at.% Nd:LGSB bifunctional crystal. Optical Materials, 2022, 123, 111832. | 3.6 | 3 |
| 4 | Pr:LGSB as a new nonlinear optical crystal: Czochralski growth and optical characterization. Journal of Alloys and Compounds, 2022, 908, 164633. | 5.5 | 1 |
| 5 | Novel optical temperature sensors based on the emission of the Pr ³⁺ ions doped Ca ₃ (M,Ga)5O ₁₂ (M ⁵⁺) Tj ETQq1 1,0.784314 rgBT /Dv | 5.5 | 7 |
| 6 | A novel IR-transparent Ho ³⁺ :Y ₂ O ₃ @MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406. | 4.8 | 6 |
| 7 | LYSB and Yb-doped LYSB Crystals: Czochralski Growth, Optical Characterization and Laser Emission Performances. , 2021, , . | | 0 |
| 8 | Enhancement of the laser emission efficiency of Yb:Y ₂ O ₃ ceramics via multi-step sintering method fabrication. EPJ Web of Conferences, 2020, 243, 06005. | 0.3 | 0 |
| 9 | Efficient near-infrared laser emission and nonlinear optical properties of a newly developed Yb:LYSB laser crystal. Journal of Alloys and Compounds, 2020, 844, 156143. | 5.5 | 9 |
| 10 | (INVITED) Czochralski-grown La _x Gd _y RzSc _{4-x-y-z} (BO ₃) ₄ (R = Yb, Nd) crystals - A review of recent developments. Optical Materials: X, 2020, 7, 100052. | 0.8 | 2 |
| 11 | Bifunctional La _x Nd _y Gd _z Sc _{4-x-y-z} (BO ₃) ₄ crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances. Optics and Laser Technology, 2020, 131, 106433. | 4.6 | 9 |
| 12 | Enhancement of the laser emission efficiency of Yb:Y ₂ O ₃ ceramics via multi-step sintering method fabrication. Optical Materials, 2020, 109, 110411. | 3.6 | 7 |
| 13 | New Yb:LYSB bifunctional crystal for efficient near-infrared laser emission and self-frequency doubling conversion. EPJ Web of Conferences, 2020, 243, 06004. | 0.3 | 0 |
| 14 | Efficient 1 μm Laser Emission of Czochralski-Grown Nd:LGSB Single Crystal. Materials, 2019, 12, 2005. | 2.9 | 7 |
| 15 | Highly Efficient Laser Emission from a Novel Nd:LGSB Crystal. , 2019, , . | | 0 |
| 16 | Spectroscopic investigations of Pr ³⁺ ions doped CNGG and CLNGG single crystals. Journal of Alloys and Compounds, 2019, 799, 288-301. | 5.5 | 8 |
| 17 | Highly transparent Yb:Y ₂ O ₃ ceramics obtained by solid-state reaction and combined sintering procedures. Ceramics International, 2019, 45, 3217-3222. | 4.8 | 17 |
| 18 | Yellow laser potential of cubic Ca ₃ (Nb,Ga)5O ₁₂ :Dy ³⁺ and Ca ₃ (Li,Nb,Ga)5O ₁₂ :Dy ³⁺ single crystals. Journal of Alloys and Compounds, 2018, 739, 806-816. | 5.5 | 16 |

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|----|--|-----|-----------|
| 19 | 1532-nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics. Optical Materials, 2018, 77, 221-225. | 3.6 | 6 |
| 20 | Crystal growth and structural characterization of Sm ³⁺ , Pr ³⁺ and Dy ³⁺ -doped CNGG and CLNGG single crystals. Optical Materials, 2018, 84, 335-338. | 3.6 | 6 |
| 21 | Structural and electron-phonon interaction effects in optical spectra of Pr ³⁺ and Sm ³⁺ in YAG. Journal of Alloys and Compounds, 2017, 706, 176-185. | 5.5 | 6 |
| 22 | Optical properties of Sm ³⁺ doped Ca ₃ (Nb,Ga) ₅ O ₁₂ and Ca ₃ (Li,Nb,Ga) ₅ O ₁₂ single crystals. Journal of Luminescence, 2017, 186, 175-182. | 3.1 | 17 |
| 23 | Structural-phase state and lasing of 5 at% Yb ³⁺ :Y ₃ Al ₅ O ₁₂ optical ceramics. Journal of the European Ceramic Society, 2017, 37, 4115-4122. | 5.7 | 16 |
| 24 | Spectroscopic and de-excitation properties of (Cr,Nd):YAG transparent ceramics. Optical Materials Express, 2016, 6, 552. | 3.0 | 11 |
| 25 | Compositional dependence of optical properties of Sm ³⁺ -doped Y ₃ Sc _x Al _{5-x} O ₁₂ polycrystalline ceramics. Journal of Alloys and Compounds, 2016, 683, 547-553. | 5.5 | 13 |
| 26 | Spectroscopic properties and laser performances of Yb:LGSB nonlinear optical crystal. Journal of Alloys and Compounds, 2016, 688, 510-517. | 5.5 | 12 |
| 27 | Emission sensitization processes involving Nd ³⁺ in YAG. Journal of Luminescence, 2016, 170, 594-601. | 3.1 | 28 |
| 28 | Structure and temperature effects on Nd ³⁺ spectra in polycrystalline mixed scandium aluminum garnets Y ₃ Sc _x Al _{5-x} O ₁₂ . Optical Materials, 2015, 47, 465-472. | 3.6 | 7 |
| 29 | Optical properties of Sm ³⁺ doped strontium hexa-aluminate single crystals. Journal of Alloys and Compounds, 2015, 622, 296-302. | 5.5 | 17 |
| 30 | Lanthanide ^{III} lanthanide and lanthanide ^{III} defect interactions in co-doped ceria revealed by luminescence spectroscopy. Journal of Alloys and Compounds, 2014, 616, 535-541. | 5.5 | 12 |
| 31 | Multicenters in Ce ³⁺ visible emission of YAG ceramics. Optical Materials, 2014, 37, 727-733. | 3.6 | 15 |
| 32 | Emission properties and site occupation of Sm ³⁺ ion doped Lu ₂ O ₃ translucent ceramics. Journal of Alloys and Compounds, 2014, 588, 388-393. | 5.5 | 12 |
| 33 | Electronic structure of Sm ³⁺ ions in YAG and cubic sesquioxide ceramics. Optical Materials, 2013, 36, 419-424. | 3.6 | 12 |
| 34 | Thermal shifts of Sm ³⁺ lines in YAG and cubic sesquioxide ceramics. Optical Materials Express, 2013, 3, 1641. | 3.0 | 11 |
| 35 | Thermal effects on Sm ³⁺ -doped ceramic laser materials for ASE suppression. , 2013, , . | | 0 |
| 36 | Spectroscopic features and laser performance at 1.06 μm of Nd ³⁺ -doped Gd ³⁺ /Lu ³⁺ :Ca ₄ O(BO ₃) ₃ single crystal. Journal of Applied Physics, 2012, 111, . | 2.5 | 10 |

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|----|---|-----|-----------|
| 37 | Optical spectroscopy of Sm ³⁺ in C2 and C3i sites of Y ₂ O ₃ ceramics. Applied Physics B: Lasers and Optics, 2012, 108, 909-918. | 2.2 | 23 |
| 38 | Sm ³⁺ -doped Sc ₂ O ₃ polycrystalline ceramics: Spectroscopic investigation. Journal of Alloys and Compounds, 2012, 535, 78-82. | 5.5 | 8 |
| 39 | Crystal field disorder effects in the optical spectra of Nd ³⁺ and Yb ³⁺ -doped calcium lithium niobium gallium garnets laser crystals and ceramics. Journal of Applied Physics, 2012, 112, . | 2.5 | 23 |
| 40 | Spectroscopic characteristics of Dy ³⁺ doped Y ₃ Al ₅ O ₁₂ transparent ceramics. Journal of Applied Physics, 2011, 110, . | 2.5 | 60 |
| 41 | Intensity parameters of Tm ³⁺ doped Sc ₂ O ₃ transparent ceramic laser material. Optical Materials, 2011, 33, 501-505. | 3.6 | 16 |
| 42 | Nd ³⁺ →Yb energy transfer in (Nd, Yb):Y ₂ O ₃ transparent ceramics. Optical Materials, 2010, 32, 1333-1336. | 3.6 | 31 |
| 43 | Sensitized Yb ³⁺ emission in (Nd, Yb):Y ₃ Al ₅ O ₁₂ transparent ceramics. Journal of Applied Physics, 2010, 108, 123112. | 2.5 | 16 |
| 44 | Upconversion emission of RE ³⁺ in Sc ₂ O ₃ ceramic under 800nm pumping. Optical Materials, 2009, 31, 744-749. | 3.6 | 27 |
| 45 | Energy transfer-driven infrared emission processes in rare earth-doped Sc ₂ O ₃ ceramics. Journal of Luminescence, 2009, 129, 1862-1865. | 3.1 | 12 |
| 46 | Efficient sensitization of Yb ³⁺ emission by Nd ³⁺ in Y ₂ O ₃ transparent ceramics and the prospect for high-energy Yb lasers. Optics Letters, 2009, 34, 2141. | 3.3 | 18 |
| 47 | Spectroscopic properties of Ho ³⁺ doped Sc ₂ O ₃ transparent ceramic for laser materials. Journal of Applied Physics, 2009, 105, . | 2.5 | 28 |
| 48 | Comparative high-resolution spectroscopy and emission dynamics of Nd-doped GSGG crystals and transparent ceramics. Journal of Luminescence, 2008, 128, 885-887. | 3.1 | 12 |
| 49 | Excited states dynamics of Er ³⁺ in Sc ₂ O ₃ ceramic. Journal of Luminescence, 2008, 128, 918-920. | 3.1 | 30 |
| 50 | Spectroscopic characteristics of Tm ³⁺ in Tm and Tm, Nd, Yb:Sc ₂ O ₃ ceramic. Journal of Luminescence, 2008, 128, 901-904. | 3.1 | 17 |
| 51 | Cationic disorder effects in complex oxide laser materials and phosphors. Optical Materials, 2008, 30, 1677-1681. | 3.6 | 1 |
| 52 | Multicenter structure of the optical spectra and the charge-compensation mechanisms in Nd:SrWO ₄ laser crystals. Journal of Applied Physics, 2008, 104, 083102. | 2.5 | 19 |
| 53 | Absorption intensities and emission cross section of Er ³⁺ in Sc ₂ O ₃ transparent ceramics. Journal of Applied Physics, 2008, 103, . | 2.5 | 31 |
| 54 | Composition dependence of Pr ³⁺ spectral characteristics in strontium lanthanum aluminate crystals. Optical Materials, 2007, 30, 164-167. | 3.6 | 1 |

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|----|---|-----|-----------|
| 55 | Disorder effects in Nd ³⁺ -doped strontium hexa-aluminate laser crystals. Journal of Physics Condensed Matter, 2006, 18, 597-611. | 1.8 | 5 |
| 56 | Czochralski growth and characterization of neodymium-doped strontium lanthanum aluminate (ASL:Nd) single crystals. Journal of Crystal Growth, 2005, 277, 410-415. | 1.5 | 5 |
| 57 | Spectroscopic and structural properties of Nd ³⁺ doped strontium lanthanum aluminate laser crystals. Journal of Applied Physics, 2004, 96, 3057-3064. | 2.5 | 21 |
| 58 | Energy transfer processes of Nd ³⁺ in Y ₂ O ₃ ceramic. Journal of Luminescence, 2003, 102-103, 72-76. | 3.1 | 42 |