

Maria Dolores Serrano Hernandez

List of Publications by Year in descending order

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75
papers

1,406
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331259

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36
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76
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docs citations

76
times ranked

822
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A roadmap for laser optimization of Yb:Ca ₃ (NbGa) ₅ O ₁₂ -CNGG-type single crystal garnets. Journal of Materials Chemistry C, 2021, 9, 4628-4642. | 2.7 | 7 |
| 2 | A probe of the radiation field magnetic component based on octahedral Yb ³⁺ in the CaNbGa garnet "CNGG" single crystal. Journal of Materials Chemistry C, 2020, 8, 7882-7889. | 2.7 | 5 |
| 3 | Design of Yb ³⁺ optical bandwidths by crystallographic modification of disordered calcium niobium gallium laser garnets. Journal of Materials Chemistry C, 2017, 5, 11481-11495. | 2.7 | 26 |
| 4 | Efficient up-conversion in Yb:Er:NaT(XO ₄) ₂ thermal nanoprobos. Imaging of their distribution in a perfused mouse. PLoS ONE, 2017, 12, e0177596. | 1.1 | 9 |
| 5 | Na Modification of Lanthanide Doped Ca ₃ Nb _{1.5} Ga _{3.5} O ₁₂ -Type Laser Garnets: Czochralski Crystal Growth and Characterization. Crystal Growth and Design, 2016, 16, 1480-1491. | 1.4 | 29 |
| 6 | Efficient infrared ($\lambda_{\text{em}} \approx 1.9 \mu\text{m}$) laser operation in color-defect-free Tm:NaGd(MoO ₄) ₂ crystal. Laser Physics Letters, 2013, 10, 045808. | 0.6 | 4 |
| 7 | Thermo-optical properties of uniaxial NaT(XO ₄) ₂ laser host crystals (where T = Y, La, Gd or Bi, and X = W) Tj ETQq1 1 0.784314 rgBT | 1.1 | 19 |
| 8 | Thermal Characterization, Crystal Field Analysis and In-Band Pumped Laser Performance of Er Doped NaY(WO ₄) ₂ Disordered Laser Crystals. PLoS ONE, 2013, 8, e59381. | 1.1 | 9 |
| 9 | Structurally Disordered Er ³⁺ -Doped NaY(WO ₄) ₂ as a Gain Medium for Resonantly-Pumped Eye-Safe Laser at $\sim 1.6 \mu\text{m}$. , 2012, , . | | 0 |
| 10 | Ultraviolet to infrared refractive indices of tetragonal double tungstate and double molybdate laser crystals. Applied Physics B: Lasers and Optics, 2012, 108, 509-514. | 1.1 | 10 |
| 11 | Epitaxial Growth of NaGd _{0.935} Yb _{0.065} (WO ₄) ₂ Layers on Lattice Matched Tetragonal Double Tungstate Substrates for Ultrafast Thin Disk Lasers. Crystal Growth and Design, 2017, 17, 1831-1839. | 1.4 | 7 |
| 12 | Comparative Study of Crystallographic, Spectroscopic, and Laser Properties of Tm ³⁺ in Na ₃ Mo ₃ O ₁₀ and Na ₃ Mo ₃ O ₁₀ Crystals. Journal of Materials Chemistry C, 2017, 5, 11481-11495. | | |

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|----|---|-----|-----------|
| 19 | Continuous-wave laser operation of Tm and Ho co-doped NaY(WO ₄) ₂ and NaLu(WO ₄) ₂ crystals. , 2010, , . | | 0 |
| 20 | Tunable, continuous-wave near 2- $\hat{1}$ /4m laser operation of Tm ³⁺ in NaY(WO ₄) ₂ single crystal. , 2009, , . | | 2 |
| 21 | Wavelength dispersive x-ray fluorescence spectrometry for the analysis of laser active lanthanides (Ln) in NaTl \hat{a} ^x Ln _x (WO ₄) ₂ crystals. X-Ray Spectrometry, 2009, 38, 287-292. | 0.9 | 6 |
| 22 | Nonlinear refractive indices of disordered NaT(XO ₄) ₂ T=Y, La, Gd, Lu and Bi, X=Mo, W femtosecond laser crystals. Applied Physics B: Lasers and Optics, 2008, 91, 507-510. | 1.1 | 9 |
| 23 | Infrared spectroscopic and laser characterization of Tm in disordered double tungstates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 22-28. | 1.7 | 31 |
| 24 | Continuous-wave tunable and femtosecond mode-locked laser operation of Yb:NaY(MoO ₄) ₂ . Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1341. | 0.9 | 36 |
| 25 | Z-scan measurements of nonlinear refractive indices of NaT(XO ₄) ₂ T= Y, La, Gd, Lu and Bi, X= Mo, W, femtosecond laser crystals. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 26 | Diode-pumped femtosecond Yb:NaY(WO ₄) ₂ laser. Electronics Letters, 2008, 44, 806. | 0.5 | 1 |
| 27 | Nonlinear refractive indices in disordered NaT(XO ₄) ₂ T = Y, La, Gd, Lu and Bi, X = Mo, W laser crystals. , 2008, , . | | 0 |
| 28 | Mode-locking of the Yb:NaY(WO ₄) ₂ laser. , 2007, , . | | 0 |
| 29 | Spectroscopy and Lasing of Yb-Doped $\text{NaY}(\text{WO}_4)_2$ Tunable and Femtosecond Mode-Locked Laser Operation. IEEE Journal of Quantum Electronics, 2007, 43, 758-764. | 1.0 | 105 |
| 30 | Tunable CW laser operation of Tm ³⁺ in locally disordered NaLa(WO ₄) ₂ . , 2007, , . | | 0 |
| 31 | Structural and Thermal Properties of Tetragonal Double Tungstate Crystals Intended for Ytterbium Laser Composites. Chemistry of Materials, 2007, 19, 3002-3010. | 3.2 | 49 |
| 32 | Continuous-wave diode-pumped operation of an Yb:NaLa(WO ₄) ₂ laser at room temperature. Optics and Laser Technology, 2007, 39, 558-561. | 2.2 | 46 |
| 33 | Laser operation of Tm near 2- \hat{A} μ m in the disordered double tungstate host NaGd(WO ₄) ₂ . , 2007, , . | | 0 |
| 34 | Structural, spectroscopic, and tunable laser properties of Yb ³⁺ -doped NaGd(WO ₄) ₂ . Physical Review B, 2006, 74, . | 1.1 | 134 |
| 35 | Broadly tunable laser operation near 2- $\hat{1}$ /4m in a locally disordered crystal of Tm ³⁺ -doped NaGd(WO ₄) ₂ . Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2494. | 0.9 | 64 |
| 36 | Continuous-wave laser operation of disordered double tungstate and molybdate crystals doped with ytterbium. Journal of Non-Crystalline Solids, 2006, 352, 2371-2375. | 1.5 | 17 |

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|----|---|-----|-----------|
| 37 | Growth and spectroscopic investigation of ytterbium-doped NaLa(WO ₄) ₂ single crystals. Journal of Crystal Growth, 2005, 275, e819-e825. | 0.7 | 27 |
| 38 | Growth and continuous-wave laser operation of disordered crystals of Yb ³⁺ :NaLa(WO ₄) ₂ and Yb ³⁺ :NaLa(MoO ₄) ₂ . Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R29-R31. | 0.8 | 49 |
| 39 | Tunable laser operation of ytterbium in disordered single crystals of Yb:NaGd(WO ₄) ₂ . Optics Express, 2004, 12, 5362. | 1.7 | 87 |
| 40 | Evidence for a bundle of 4 Å... single-walled carbon nanotubes. Nanotechnology, 2003, 14, L4-L5. | 1.3 | 8 |
| 41 | Convection-assisted synthesis of small-diameter single-walled carbon nanotubes by the electric arc technique, in the vertical configuration. Nanotechnology, 2002, 13, 218-220. | 1.3 | 10 |
| 42 | Lithium niobate films on periodic poled lithium niobate substrates prepared by liquid phase epitaxy. Journal of Crystal Growth, 2002, 237-239, 596-601. | 0.7 | 5 |
| 43 | Are protein crystallization mechanisms relevant to understanding and control of polymerization of deoxyhemoglobin S?. Journal of Crystal Growth, 2001, 232, 368-375. | 0.7 | 11 |
| 44 | Compositional study of LiNbO ₃ thin films grown by liquid phase epitaxy. Journal of Crystal Growth, 2001, 226, 488-492. | 0.7 | 13 |
| 45 | Determination of the Li/Nb ratio in LiNbO ₃ crystals grown by Czochralski method with K ₂ O added to the melt. Journal of Crystal Growth, 2000, 210, 670-676. | 0.7 | 41 |
| 46 | Incorporation of hexavalent impurities into LiNbO ₃ . Radiation Effects and Defects in Solids, 1999, 150, 249-253. | 0.4 | 10 |
| 47 | On the opposite domain nature of Er-doped lithium niobate crystals. Solid State Communications, 1999, 109, 605-609. | 0.9 | 8 |
| 48 | Er incorporation into congruent LiNbO ₃ crystals. Solid State Communications, 1999, 112, 699-703. | 0.9 | 13 |
| 49 | Growth and characterization of LiNbO ₃ thin films obtained by liquid phase epitaxy on Li _x Nb _{1-x} O ₃ substrates. Journal of Crystal Growth, 1999, 198-199, 526-530. | 0.7 | 8 |
| 50 | Bulk periodic poled lithium niobate crystals doped with Er and Yb. Journal of Crystal Growth, 1999, 200, 185-190. | 0.7 | 35 |
| 51 | Opposite domain formation in Er-doped LiNbO ₃ bulk crystals grown by the off-centered Czochralski technique. Journal of Crystal Growth, 1999, 203, 179-185. | 0.7 | 12 |
| 52 | Marangoni Convective Effect during Crystal Growth in Space. Crystal Research and Technology, 1999, 34, 457-465. | 0.6 | 11 |
| 53 | Incorporation of vanadium in liquid phase epitaxy films of LiNbO ₃ . , 1999, , . | | 0 |
| 54 | Nature of bulk periodic poled lithium niobate formation. , 1999, , . | | 0 |

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|----|---|-----|-----------|
| 55 | Bridgman solidification of GaSb in space. Journal of Crystal Growth, 1998, 192, 63-72. | 0.7 | 42 |
| 56 | Accurate interferometric measurement of electro-optic coefficients: application to quasi-stoichiometric LiNbO ₃ . Optics Communications, 1998, 154, 23-27. | 1.0 | 36 |
| 57 | The effect of native defects on the domain structures of :Fe - a case study by means of the addition of MgO and to the congruent melt. Journal of Physics Condensed Matter, 1997, 9, 6097-6101. | 0.7 | 8 |
| 58 | On the single domain nature of stoichiometric LiNbO ₃ grown from melts containing K ₂ O. Applied Physics Letters, 1997, 70, 729-731. | 1.5 | 18 |
| 59 | Transient electrical field characteristics due to polarization of domains in bulk LiNbO ₃ during Czochralski growth. Journal of Applied Physics, 1997, 81, 862-864. | 1.1 | 4 |
| 60 | Nonaxial sites for Er in LiNbO ₃ . Applied Physics Letters, 1997, 70, 1070-1072. | 1.5 | 31 |
| 61 | Effect of crystal composition on the domain structure of LiNbO ₃ grown from Li-rich melts by the Czochralski technique. Journal of Crystal Growth, 1997, 172, 269-273. | 0.7 | 10 |
| 62 | Nd ³⁺ active sites in Bi ₁₂ SiO ₂₀ :Nd:V codoped crystals. Journal of Luminescence, 1997, 71, 305-312. | 1.5 | 2 |
| 63 | Nd ³⁺ and Eu ³⁺ active sites in Bi ₁₂ SiO ₂₀ and Bi ₁₂ SiO ₂₀ :V ⁵⁺ crystals. Optical Materials, 1997, 8, 91-97. | 1.7 | 3 |
| 64 | In situ poling of LiNbO ₃ bulk crystal below the Curie temperature by application of electric field after growth. Journal of Crystal Growth, 1996, 169, 409-412. | 0.7 | 7 |
| 65 | Bridgman solidification of GaSb results of the EURECA AMF-118 experiment. Advances in Space Research, 1995, 16, 101-104. | 1.2 | 5 |
| 66 | Effect of thermal annealing on Te precipitates in CdTe wafers studied by Raman scattering and cathodoluminescence. Journal of Applied Physics, 1995, 77, 2806-2808. | 1.1 | 39 |
| 67 | Cathodoluminescence microscopic studies of ?-HgI ₂ platelets and crystals. Applied Physics A: Materials Science and Processing, 1995, 61, 645-649. | 1.1 | 3 |
| 68 | Cathodoluminescence microscopic studies of ?-HgI ₂ platelets and crystals. Applied Physics A: Materials Science and Processing, 1995, 61, 645-649. | 1.1 | 0 |
| 69 | Performance of low-energy gamma-ray HgI ₂ microdetectors. Journal Physics D: Applied Physics, 1994, 27, 2251-2257. | 1.3 | 3 |
| 70 | Short-time annealing of as-grown p-CdTe wafers. Semiconductor Science and Technology, 1994, 9, 1713-1718. | 1.0 | 22 |
| 71 | Study of point defects in CdTe and CdTe:V by cathodoluminescence. Journal of Applied Physics, 1994, 76, 3720-3723. | 1.1 | 16 |
| 72 | The effect of the in-situ sublimation in the growth of HgI ₂ platelets from vapour. Crystal Research and Technology, 1994, 29, 525-531. | 0.6 | 1 |

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|----|---|-----|-----------|
| 73 | VPE of the Hg _{1-x} Cdx Te ohmic contact layers on p-CdTe. Physica Status Solidi A, 1993, 140, 445-451. | 1.7 | 14 |
| 74 | The low temperature annealing of p-cadmium telluride in gallium-bath. Materials Research Bulletin, 1993, 28, 1061-1066. | 2.7 | 14 |
| 75 | Hyperfine interactions and Rutherford backscattering studies of Cd and Hg in CdTe single crystals and thin films. Nuclear Instruments & Methods in Physics Research B, 1992, 63, 248-253. | 0.6 | 7 |