# Carlos DÃ-az-Guerra

List of Publications by Year
in descending order



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|---|---|---|---|
| 63 papers | 991 citations | 471371 17 h-index | 477173 29 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 1376 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Obtaining and Characterization of Highly Crystalline Recycled Graphites from Different Types of Spent Batteries. Materials, 2022, 15, 3246. | 1.3 | 4 |
| 2 | Anisotropy of the Electric Field Gradient in Two-Dimensional Î±-MoO3 Investigated by 57Mn(57Fe) Emission MÃ¶ssbauer Spectroscopy. Crystals, 2022, 12, 942. | 1.0 | 2 |
| 3 | Synthesis, characterization and electrochemical assessment of hexagonal molybdenum trioxide (h-MoO3) micro-composites with graphite, graphene and graphene oxide for lithium ion batteries. Electrochimica Acta, 2021, 365, 137355. | 2.6 | 29 |
| 4 | h-MoO3/AlCl3-Urea/Al: High performance and low-cost rechargeable Al-ion battery. Journal of Power Sources, 2021, 516, 230656. | 4.0 | 13 |
| 5 | Estimating the uncertainties of strain and damage analysis by X-ray diffraction in ion implanted MoO3. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 290-296. | 0.6 | 1 |
| 6 | Femtosecond Double-Pulse Laser Ablation and Deposition of Co-Doped ZnS Thin Films. Nanomaterials, 2020, 10, 2229. | 1.9 | 10 |
| 7 | Influence of the synthesis conditions of Y0.9Dy0.1VO4 and silica-coated Y0.9Dy0.1VO4 nanophosphors on the powder morphology and luminescence emission intensity. Journal of Nanoparticle Research, 2019, 21, 1. | 0.8 | 7 |
| 8 | Engineering strain and conductivity of MoO3 by ion implantation. Acta Materialia, 2019, 169, 15-27. | 3.8 | 19 |
| 9 | Electrical characterization of molybdenum oxide lamellar crystals irradiated with UV light and proton beams. Surface and Coatings Technology, 2018, 355, 50-54. | 2.2 | 5 |
| 10 | In situ local assessment of laser irradiation-induced phase transformations in hexagonal MoO<sub>3</sub> microrods. CrystEngComm, 2018, 20, 4954-4961. | 1.3 | 9 |
| 11 | Spatially resolved optical activation of Eu ions by laser irradiation in implanted hexagonal MoO3 microrods. Applied Physics Letters, 2018, 113, 031902. | 1.5 | 4 |
| 12 | Correlation of Electrical Response and Structural Phase Transitions in Bi<sub>2</sub>O<sub>3</sub> Nanowires. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800186. | 0.8 | 3 |
| 13 | Effects of thermal annealing on the structural and electronic properties of rare earth-implanted MoO<sub>3</sub> nanoplates. CrystEngComm, 2017, 19, 2339-2348. | 1.3 | 6 |
| 14 | Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. Journal of Physical Chemistry C, 2017, 121, 24809-24815. | 1.5 | 23 |
| 15 | Thermal growth, structural and optical characterization of hierarchical Bi2O3 - MoO3 nanostructures. Journal of Alloys and Compounds, 2017, 728, 827-835. | 2.8 | 4 |
| 16 | Formation of Î²-Bi2O3 and Î´-Bi2O3 during laser irradiation of Bi films studied in-situ by spatially resolved Raman spectroscopy. Journal of Alloys and Compounds, 2017, 723, 520-526. | 2.8 | 65 |
| 17 | Comparative study of Y0.9Er0.1V1â^'xPxO4 nanophosphors with xÂ=Â0, 0.1, 0.5, 0.9 and 1 prepared by sol-gel and hydrothermal processes. Journal of Alloys and Compounds, 2016, 687, 754-764. | 2.8 | 5 |
| 18 | Preparation of Ca<sub>0.5</sub>Zr<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>and Ca<sub>0.45</sub>Eu<sub>0.05</sub>Zr<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>nanopowders: structural characterization and luminescence emission study. Journal Physics D: Applied Physics, 2016, 49, 115501. | 1.3 | 9 |

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|---|---|---|---|
| 19 | Effects of preparation method and pH variation on the structural characteristics and luminescence properties of Y0.9Er0.1VO4 and Y0.9Er0.1V0.9Cr0.1O4 nanopowders. Journal of Luminescence, 2015, 165, 105-114. | 1.5 | 12 |
| 20 | Growth, structure, luminescence and mechanical resonance of Bi<sub>2</sub>O<sub>3</sub>nano- and microwires. CrystEngComm, 2015, 17, 132-139. | 1.3 | 12 |
| 21 | Intense luminescence emission from rare-earth-doped MoO3nanoplates and lamellar crystals for optoelectronic applications. Journal Physics D: Applied Physics, 2014, 47, 355105. | 1.3 | 28 |
| 22 | Effect of synthesis conditions on the structural characteristics and luminescence properties of Y0.9Eu0.1V1â^'xCrxO4 (0Ââ‰ÂxÂâ‰Â0.5) nanopowders. Materials Chemistry and Physics, 2014, 145, 18-26. | 2.0 | 12 |
| 23 | Structural and luminescence properties of Eu and Er implanted Bi2O3 nanowires for optoelectronic applications. Journal of Materials Chemistry C, 2013, 1, 7920. | 2.7 | 38 |
| 24 | Î±-Bi2O3 microcrystals and microrods: Thermal synthesis, structural and luminescence properties. Journal of Alloys and Compounds, 2013, 548, 188-193. | 2.8 | 50 |
| 25 | Influence of chromium content on the optical and electrical properties of Li1+xCrxTi2â^'x(PO4)3. Solid State Ionics, 2013, 241, 36-45. | 1.3 | 26 |
| 26 | Laser irradiation-induced Î± to Î´ phase transformation in Bi2O3 ceramics and nanowires. Applied Physics Letters, 2012, 101, 071905. | 1.5 | 40 |
| 27 | Luminescence and Raman study of Î±-Bi2O3 ceramics. Materials Chemistry and Physics, 2012, 133, 559-564. | 2.0 | 64 |
| 28 | Structural and cathodoluminiscent properties of Zr0.95Ce0.05O2 nanopowders prepared by solâ€“gel and template methods. Journal of Luminescence, 2011, 131, 2128-2132. | 1.5 | 6 |
| 29 | Growth, structure and luminescence properties of electrodeposited and post-oxidized Co oxide nanowires. Materials Chemistry and Physics, 2010, 124, 1177-1181. | 2.0 | 5 |
| 30 | Exchange bias in single-crystalline CuO nanowires. Applied Physics Letters, 2010, 96, . | 1.5 | 52 |
| 31 | Optical and magnetic properties of CuO nanowires grown by thermal oxidation. Journal Physics D: Applied Physics, 2010, 43, 135403. | 1.3 | 53 |
| 32 | Synthesis and Cathodoluminescence of Undoped and Cr<sup>3+</sup>-Doped Sodium Titanate Nanotubes and Nanoribbons. Journal of Physical Chemistry C, 2010, 114, 8192-8198. | 1.5 | 15 |
| 33 | Cathodoluminescence mapping and spectroscopy of Te-doped grown by the vertical Bridgman method under an alternating magnetic field. Superlattices and Microstructures, 2009, 45, 407-412. | 1.4 | 2 |
| 34 | Structural and cathodoluminescence assessment of transition metal oxide nanostructures grown by thermal deposition methods. Superlattices and Microstructures, 2009, 45, 145-150. | 1.4 | 4 |
| 35 | Magnetic transitions in Î±-Fe2O3 nanowires. Journal of Applied Physics, 2009, 106, . | 1.1 | 21 |
| 36 | Structural, magnetic and luminescent characteristics of Pr<sup>3+</sup>-doped ZrO<sub>2</sub>powders synthesized by a solâ€“gel method. Journal Physics D: Applied Physics, 2009, 42, 075418. | 1.3 | 36 |

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|---|---|---|---|
| 37 | Thermal Deposition Growth and Luminescence Properties of Single-Crystalline V<sub>2</sub>O<sub>5</sub> Elongated Nanostructures. Crystal Growth and Design, 2008, 8, 1031-1034. | 1.4 | 48 |
| 38 | Shape-controlled synthesis and cathodoluminescence properties of elongated Î±-Fe2O3 nanostructures. Journal of Applied Physics, 2008, 104, 124311. | 1.1 | 12 |
| 39 | Influence of doping level on the cathodoluminescence of Se-doped GaSb crystals. Journal Physics D: Applied Physics, 2007, 40, 137-143. | 1.3 | 8 |
| 40 | Structural and cathodoluminescence assessment of V2O5 nanowires and nanotips grown by thermal deposition. Journal of Applied Physics, 2007, 102, 084307. | 1.1 | 17 |
| 41 | Growth of Ga(1â^'x)InxSb alloys by Vertical Bridgman technique under alternating magnetic field. Journal of Crystal Growth, 2006, 287, 224-229. | 0.7 | 28 |
| 42 | Characterization of undoped and Te-doped GaSb crystals grown by the vertical feeding method. Journal of Crystal Growth, 2006, 289, 18-23. | 0.7 | 9 |
| 43 | Solidification features of cast and vertically fed Te-doped GaSb materials. Journal of Crystal Growth, 2006, 293, 285-290. | 0.7 | 1 |
| 44 | Cathodoluminescence microscopy and spectroscopy of GaN epilayers microstructured using surface charge lithography. Journal of Applied Physics, 2006, 100, 023509. | 1.1 | 6 |
| 45 | Synthesis and characterisation of GaSb and GaInSb feed materials. Journal of Crystal Growth, 2005, 275, e601-e607. | 0.7 | 5 |
| 46 | Study of defects in InxGa1-xSb bulk crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1897-1901. | 0.8 | 0 |
| 47 | Spatially resolved cathodoluminescence of GaN nanostructures fabricated by photoelectrochemical etching. Applied Physics Letters, 2005, 86, 223103. | 1.5 | 15 |
| 48 | Cathodoluminescence study of the radiative recombination properties of Se-doped GaSb crystals. Journal of Applied Physics, 2005, 97, 023504. | 1.1 | 3 |
| 49 | Cathodoluminescence microscopy and spectroscopy of n-type 4H-SiC epilayers. EPJ Applied Physics, 2004, 27, 227-230. | 0.3 | 4 |
| 50 | Electron-beam-induced current study of electrically active defects in 4H-SiC. Journal of Physics Condensed Matter, 2004, 16, S217-S223. | 0.7 | 13 |
| 51 | Luminescence from indented Te-doped GaSb crystals. Semiconductor Science and Technology, 2004, 19, 490-493. | 1.0 | 9 |
| 52 | Scanning tunneling spectroscopy study of silicon and platinum assemblies in an opal matrix. Applied Physics Letters, 2000, 77, 3194-3196. | 1.5 | 14 |
| 53 | Electron beam induced current and scanning tunnelling spectroscopy correlative study of and CdTe crystals. Semiconductor Science and Technology, 1998, 13, 576-582. | 1.0 | 13 |
| 54 | Structural and composition changes in superconducting ceramics locally irradiated by electrons. Physics of the Solid State, 1997, 39, 392-396. | 0.2 | 3 |

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|---|---|---|---|
| 55 | Electron beam induced structural changes in Bi 2 Sr 2 CaCu 2 O 8+x studied by cathodoluminescence microscopy and secondary electron emission. Applied Physics A: Materials Science and Processing, 1997, 64, 361-366. | 1.1 | 2 |
| 56 | Cathodoluminescence microscopy and spectroscopy of superconducting Bi2Sr2CaCu2O8+x single crystals. Physica C: Superconductivity and Its Applications, 1997, 275, 37-46. | 0.6 | 9 |
| 57 | Anomalies in the cathodoluminescence of the antiferromagnetic oxides NiO and CoO. Solid State Communications, 1997, 104, 763-766. | 0.9 | 8 |
| 58 | Cathodoluminescence and photoluminescence studies of sintered BaCuO2. Journal of Luminescence, 1997, 71, 299-304. | 1.5 | 1 |
| 59 | Cathodoluminescence and Photoluminescence Spectroscopy of NiO. Physica Status Solidi A, 1997, 163, 497-503. | 1.7 | 55 |
| 60 | Cathodoluminescence microscopy of superconducting and non-superconducting Tl2Ba2CuO6+Î´ polycrystals. Physica C: Superconductivity and Its Applications, 1996, 259, 121-130. | 0.6 | 7 |
| 61 | Cathodoluminescence Microscopy and Secondary Electron Emission in Mechanically Polished and Electron Irradiated YBa2Cu3O7âˆ’x Ceramics. Physica Status Solidi A, 1996, 155, 525-539. | 1.7 | 1 |
| 62 | Electron beam induced compositional and structural changes in. Superconductor Science and Technology, 1996, 9, 766-774. | 1.8 | 0 |
| 63 | Deep Level Cathodoluminescence in Deformed CdTe Crystals. Physica Status Solidi A, 1995, 147, 75-80. | 1.7 | 6 |