Carlos DÃ-az-Guerra

List of Publications by Year
in descending order

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	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
2	Luminescence and Raman study of Î±-Bi2O3 ceramics. Materials Chemistry and Physics, 2012, 133, 559-564.	2.0	64
3	Cathodoluminescence and Photoluminescence Spectroscopy of NiO. Physica Status Solidi A, 1997, 163, 497-503.	1.7	55
4	Optical and magnetic properties of CuO nanowires grown by thermal oxidation. Journal Physics D: Applied Physics, 2010, 43, 135403.	1.3	53
5	Exchange bias in single-crystalline CuO nanowires. Applied Physics Letters, 2010, 96, .	1.5	52
6	Î±-Bi2O3 microcrystals and microrods: Thermal synthesis, structural and luminescence properties. Journal of Alloys and Compounds, 2013, 548, 188-193.	2.8	50
7	Thermal Deposition Growth and Luminescence Properties of Single-Crystalline V₂O₅ Elongated Nanostructures. Crystal Growth and Design, 2008, 8, 1031-1034.	1.4	48
8	Laser irradiation-induced Î± to Î´ phase transformation in Bi2O3 ceramics and nanowires. Applied Physics Letters, 2012, 101, 071905.	1.5	40
9	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
10	Structural, magnetic and luminescent characteristics of Pr³⁺-doped ZrO₂powders synthesized by a solâ€“gel method. Journal Physics D: Applied Physics, 2009, 42, 075418.	1.3	36
11	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
12	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
13	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
14	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
15	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. Journal of Physical Chemistry C, 2017, 121, 24809-24815.	1.5	23
16	Magnetic transitions in Î±-Fe2O3 nanowires. Journal of Applied Physics, 2009, 106, .	1.1	21
17	Engineering strain and conductivity of MoO3 by ion implantation. Acta Materialia, 2019, 169, 15-27.	3.8	19
18	Structural and cathodoluminescence assessment of V2O5 nanowires and nanotips grown by thermal deposition. Journal of Applied Physics, 2007, 102, 084307.	1.1	17

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19	Spatially resolved cathodoluminescence of GaN nanostructures fabricated by photoelectrochemical etching. Applied Physics Letters, 2005, 86, 223103.	1.5	15
20	Synthesis and Cathodoluminescence of Undoped and Cr³⁺-Doped Sodium Titanate Nanotubes and Nanoribbons. Journal of Physical Chemistry C, 2010, 114, 8192-8198.	1.5	15
21	Scanning tunneling spectroscopy study of silicon and platinum assemblies in an opal matrix. Applied Physics Letters, 2000, 77, 3194-3196.	1.5	14
22	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
23	Electron-beam-induced current study of electrically active defects in 4H-SiC. Journal of Physics Condensed Matter, 2004, 16, S217-S223.	0.7	13
24	h-MoO3/AlCl3-Urea/Al: High performance and low-cost rechargeable Al-ion battery. Journal of Power Sources, 2021, 516, 230656.	4.0	13
25	Shape-controlled synthesis and cathodoluminescence properties of elongated Î±-Fe2O3 nanostructures. Journal of Applied Physics, 2008, 104, 124311.	1.1	12
26	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
27	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
28	Growth, structure, luminescence and mechanical resonance of Bi₂O₃nano- and microwires. CrystEngComm, 2015, 17, 132-139.	1.3	12
29	Femtosecond Double-Pulse Laser Ablation and Deposition of Co-Doped ZnS Thin Films. Nanomaterials, 2020, 10, 2229.	1.9	10
30	Cathodoluminescence microscopy and spectroscopy of superconducting Bi2Sr2CaCu2O8+x single crystals. Physica C: Superconductivity and Its Applications, 1997, 275, 37-46.	0.6	9
31	Luminescence from indented Te-doped GaSb crystals. Semiconductor Science and Technology, 2004, 19, 490-493.	1.0	9
32	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
33	Preparation of Ca_{0.5}Zr₂(PO₄)₃and Ca_{0.45}Eu_{0.05}Zr₂(PO₄)₃nanopowders: structural characterization and luminescence emission study. Journal Physics D: Applied Physics, 2016, 49, 115501.	1.3	9
34	In situ local assessment of laser irradiation-induced phase transformations in hexagonal MoO₃ microrods. CrystEngComm, 2018, 20, 4954-4961.	1.3	9
35	Anomalies in the cathodoluminescence of the antiferromagnetic oxides NiO and CoO. Solid State Communications, 1997, 104, 763-766.	0.9	8
36	Influence of doping level on the cathodoluminescence of Se-doped GaSb crystals. Journal Physics D: Applied Physics, 2007, 40, 137-143.	1.3	8

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37	Cathodoluminescence microscopy of superconducting and non-superconducting Tl2Ba2CuO6+Î´ polycrystals. Physica C: Superconductivity and Its Applications, 1996, 259, 121-130.	0.6	7
38	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
39	Deep Level Cathodoluminescence in Deformed CdTe Crystals. Physica Status Solidi A, 1995, 147, 75-80.	1.7	6
40	Cathodoluminescence microscopy and spectroscopy of GaN epilayers microstructured using surface charge lithography. Journal of Applied Physics, 2006, 100, 023509.	1.1	6
41	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
42	Effects of thermal annealing on the structural and electronic properties of rare earth-implanted MoO₃ nanoplates. CrystEngComm, 2017, 19, 2339-2348.	1.3	6
43	Synthesis and characterisation of GaSb and GaInSb feed materials. Journal of Crystal Growth, 2005, 275, e601-e607.	0.7	5
44	Growth, structure and luminescence properties of electrodeposited and post-oxidized Co oxide nanowires. Materials Chemistry and Physics, 2010, 124, 1177-1181.	2.0	5
45	Comparative study of Y0.9Er0.1V1â^'xPxO4 nanophosphors with xÂ=ÂO, 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
46	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
47	Cathodoluminescence microscopy and spectroscopy of n-type 4H-SiC epilayers. EPJ Applied Physics, 2004, 27, 227-230.	0.3	4
48	Structural and cathodoluminescence assessment of transition metal oxide nanostructures grown by thermal deposition methods. Superlattices and Microstructures, 2009, 45, 145-150.	1.4	4
49	Thermal growth, structural and optical characterization of hierarchical Bi2O3 - MoO3 nanostructures. Journal of Alloys and Compounds, 2017, 728, 827-835.	2.8	4
50	Spatially resolved optical activation of Eu ions by laser irradiation in implanted hexagonal MoO3 microrods. Applied Physics Letters, 2018, 113, 031902.	1.5	4
51	Obtaining and Characterization of Highly Crystalline Recycled Graphites from Different Types of Spent Batteries. Materials, 2022, 15, 3246.	1.3	4
52	Structural and composition changes in superconducting ceramics locally irradiated by electrons. Physics of the Solid State, 1997, 39, 392-396.	0.2	3
53	Cathodoluminescence study of the radiative recombination properties of Se-doped GaSb crystals. Journal of Applied Physics, 2005, 97, 023504.	1.1	3
54	Correlation of Electrical Response and Structural Phase Transitions in Bi₂O₃ Nanowires. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800186.	0.8	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 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
57	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
58	Cathodoluminescence Microscopy and Secondary Electron Emission in Mechanically Polished and Electron Irradiated YBa2Cu3O7â^'x Ceramics. Physica Status Solidi A, 1996, 155, 525-539.	1.7	1
59	Cathodoluminescence and photoluminescence studies of sintered BaCuO2. Journal of Luminescence, 1997, 71, 299-304.	1.5	1
60	Solidification features of cast and vertically fed Te-doped GaSb materials. Journal of Crystal Growth, 2006, 293, 285-290.	0.7	1
61	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
62	Electron beam induced compositional and structural changes in. Superconductor Science and Technology, 1996, 9, 766-774.	1.8	0
63	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