

# Giancarlo Salviati

## List of Publications by Year in descending order

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314  
papers

7,394  
citations

47006

47  
h-index

88630

70  
g-index

319  
all docs

319  
docs citations

319  
times ranked

7495  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Synthetic recovery of impulse propagation in myocardial infarction via silicon carbide semiconductive nanowires. <i>Nature Communications</i> , 2022, 13, 6.   | 12.8 | 7         |
| 2  | Excitonic absorption and defect-related emission in three-dimensional MoS <sub>2</sub> pyramids. <i>Nanoscale</i> , 2022, 14, 1179-1186.   | 5.6  | 3         |
| 3  | Evaluating the plasmon-exciton interaction in ZnO tetrapods coupled with gold nanostructures by nanoscale cathodoluminescence. <i>Nano Express</i> , 2021, 2, 014004.  | 2.4  | 1         |
| 4  | Enhancement of X-ray-Excited Red Luminescence of Chromium-Doped Zinc Gallate via Ultrasmall Silicon Carbide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 2457-2465.   | 6.7  | 9         |
| 5  | Cathodoluminescence, Raman and scanning electron microscopy with energy dispersion system mapping to unravel the mineralogy and texture of an altered Ca <sub>2</sub> Al <sub>2</sub> Si <sub>2</sub> O <sub>10</sub> carbonaceous chondrite. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1892. | 2.5  | 0         |
| 6  | Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. <i>Nano Letters</i> , 2020, 20, 567-576.  | 9.1  | 22        |
| 7  | Influence of organic promoter gradient on the MoS <sub>2</sub> growth dynamics. <i>Nanoscale Advances</i> , 2020, 2, 2352-2362.  | 4.6  | 20        |
| 8  | Growth of graphitic carbon layers around silicon carbide nanowires. <i>Journal of Applied Physics</i> , 2019, 126, .   | 2.5  | 6         |
| 9  | Strain engineering of core-shell silicon carbide nanowires for mechanical and piezoresistive characterizations. <i>Nanotechnology</i> , 2019, 30, 265702.  | 2.6  | 12        |
| 10 | Sub-Micropillar Spacing Modulates the Spatial Arrangement of Mouse MC3T3-E1 Osteoblastic Cells. <i>Nanomaterials</i> , 2019, 9, 1701.  | 4.1  | 5         |
| 11 | Macroalgae to nanoparticles: Study of <i>Ulva lactuca</i> L. role in biosynthesis of gold and silver nanoparticles and of their cytotoxicity on colon cancer cell lines. <i>Materials Science and Engineering C</i> , 2019, 97, 498-509.   | 7.3  | 57        |
| 12 | Hierarchical cobalt oxide-functionalized silicon carbide nanowire array for efficient and robust oxygen evolution electro-catalysis. <i>Materials Today Energy</i> , 2018, 7, 37-43.   | 4.7  | 12        |
| 13 | Osteoblasts preferentially adhere to peaks on micro-structured titanium. <i>Dental Materials Journal</i> , 2018, 37, 278-285.  | 1.8  | 23        |
| 14 | ALLES: A random walk simulation approach to cathodoluminescence processes in semiconductors. , 2018, , 565-568.  |      | 0         |
| 15 | Comparative cathodoluminescence and EBIC analysis of partially relaxed InGaAs/GaAs p-i-n structures. , 2018, , 567-570.  |      | 0         |
| 16 | Depth resolved cathodoluminescence study of optical transitions in MOVPE grown hexagonal GaN. , 2018, , 251-254.   |      | 0         |
| 17 | Characterization of GaN based MESFETs by comparing electroluminescence, photoionization and cathodoluminescence spectroscopy. , 2018, , 503-506.   |      | 0         |
| 18 | Growth and characterization of <sup>125</sup> I-Ga <sub>2</sub> O <sub>3</sub> nanowires obtained on not-catalyzed and Au/Pt catalyzed substrates. <i>Journal of Crystal Growth</i> , 2017, 457, 255-261.  | 1.5  | 12        |

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|----|---|------|-----------|
| 19 | Functionalization of SiC/SiO <sub>x</sub> nanowires with a porphyrin derivative: a hybrid nanosystem for X-ray induced singlet oxygen generation. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 165-172.       | 3.4  | 11        |
| 20 | MnO <sub>x</sub> -decorated carbonized porous silicon nanowire electrodes for high performance supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1505-1516.  | 30.8 | 109       |
| 21 | Effect of a halogen-based precursor on dopant incorporation in 3C-SiC film epitaxy. <i>Journal of Materials Science</i> , 2017, 52, 9787-9793.  | 3.7  | 1         |
| 22 | A cytotoxicity study of silicon oxycarbide nanowires as cell scaffold for biomedical applications. <i>Materials Science and Engineering C</i> , 2017, 73, 465-471.  | 7.3  | 29        |
| 23 | Degradation mechanisms in heterostructure devices and their correlation with defects. , 2017, , 503-514.  |      | 0         |
| 24 | Silicon Carbide-Based Nanowires for Biomedical Applications. , 2016, , 311-342.   |      | 3         |
| 25 | MoS <sub>2</sub> Impurities: Evidence of Native Cs Impurities and Metal-Insulator Transition in MoS <sub>2</sub> Natural Crystals ( <i>Adv. Electron. Mater.</i> 6/2016). <i>Advanced Electronic Materials</i> , 2016, 2, . | 5.1  | 0         |
| 26 | Structural, optical and compositional stability of MoS <sub>2</sub> multi-layer flakes under high dose electron beam irradiation. <i>2D Materials</i> , 2016, 3, 025024.  | 4.4  | 19        |
| 27 | SiC Nanostructures Toward Biomedical Applications and Its Future Challenges. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 430-446.   | 12.3 | 36        |
| 28 | Cold field electron emission of large-area arrays of SiC nanowires: photo-enhancement and saturation effects. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8226-8234.   | 5.5  | 18        |
| 29 | CeF <sub>3</sub> -ZnO scintillating nanocomposite for self-lighted photodynamic therapy of cancer. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 159.  | 3.6  | 21        |
| 30 | Novel near-infrared emission from crystal defects in MoS <sub>2</sub> multilayer flakes. <i>Nature Communications</i> , 2016, 7, 13044.   | 12.8 | 60        |
| 31 | S-induced modifications of the optoelectronic properties of ZnO mesoporous nanobelts. <i>Scientific Reports</i> , 2016, 6, 27948.   | 3.3  | 16        |
| 32 | Nanoscale mapping of plasmon and exciton in ZnO tetrapods coupled with Au nanoparticles. <i>Scientific Reports</i> , 2016, 6, 19168.  | 3.3  | 27        |
| 33 | Evidence of Native Cs Impurities and Metal-Insulator Transition in MoS <sub>2</sub> Natural Crystals. <i>Advanced Electronic Materials</i> , 2016, 2, 1600091.  | 5.1  | 12        |
| 34 | Synthesis and enhanced effect of vanadium on structural and optical properties of zinc oxide. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.   | 3.3  | 4         |
| 35 | Degradation mechanisms and lifetime of state-of-the-art green laser diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 974-979.   | 1.8  | 9         |
| 36 | Cytocompatible SiC/SiO <sub>x</sub> nanowires for X-ray-excited photodynamic therapy. , 2015, , .   |      | 0         |

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|----|---|------|-----------|
| 37 | Porphyrin conjugated SiC/SiO <sub>2</sub> nanowires for X-ray-excited photodynamic therapy. Scientific Reports, 2015, 5, 7606.  | 3.3  | 64        |
| 38 | The critical role of intragap states in the energy transfer from gold nanoparticles to TiO <sub>2</sub> . Physical Chemistry Chemical Physics, 2015, 17, 4864-4869.   | 2.8  | 41        |
| 39 | Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725.   | 5.6  | 16        |
| 40 | Origin of the visible emission of black silicon microstructures. Applied Physics Letters, 2015, 107, .  | 3.3  | 7         |
| 41 | AC conductivity and structural properties of Mg-doped ZnO ceramic. Applied Physics A: Materials Science and Processing, 2015, 121, 625-634.   | 2.3  | 16        |
| 42 | Tuning the radial structure of core-shell silicon carbide nanowires. CrystEngComm, 2015, 17, 1258-1263.   | 2.6  | 27        |
| 43 | PEDOT:PSS Interfaces Support the Development of Neuronal Synaptic Networks with Reduced Neuroglia Response In vitro. Frontiers in Neuroscience, 2015, 9, 521.   | 2.8  | 45        |
| 44 | Cubic Silicon Carbide Nanowires. Carbon Materials, 2015, , 101-129.   | 1.2  | 1         |
| 45 | 3C-SiC nanowires luminescence enhancement by coating with a conformal oxides layer. Journal Physics D: Applied Physics, 2014, 47, 394006.   | 2.8  | 12        |
| 46 | Dielectric study on Zn <sub>1-x</sub> Mg <sub>x</sub> O ceramic materials prepared by the solid-state route. Applied Physics A: Materials Science and Processing, 2014, 117, 1515-1524.                                 | 2.3  | 3         |
| 47 | Microscopic-scale investigation of the degradation of InGaN-based laser diodes submitted to electrical stress. , 2014, , .  |      | 0         |
| 48 | Solid solutions and phase transitions in (Ca,M <sub>2</sub> <sup>+</sup> )M <sub>2</sub> Si <sub>2</sub> O <sub>6</sub> pyroxenes (M <sub>2</sub> <sup>+</sup> = Co, Fe, Mg). American Mineralogist, 2014, 99, 704-711. | 1.9  | 23        |
| 49 | Optical and structural properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O ceramic materials. Applied Physics A: Materials Science and Processing, 2014, 116, 1501-1509.  | 2.3  | 29        |
| 50 | Cytocompatibility and Cellular Internalization Mechanisms of SiC/SiO <sub>2</sub> Nanowires. Nano Letters, 2014, 14, 4368-4375.   | 9.1  | 44        |
| 51 | Selective Ultrathin Carbon Sheath on Porous Silicon Nanowires: Materials for Extremely High Energy Density Planar Micro-Supercapacitors. Nano Letters, 2014, 14, 1843-1847.   | 9.1  | 96        |
| 52 | Carbon-doped SiO <sub>2</sub> nanowires with a large yield of white emission. Nanotechnology, 2014, 25, 185704.   | 2.6  | 16        |
| 53 | Decoration of graphene with nickel nanoparticles: study of the interaction with hydrogen. Journal of Materials Chemistry A, 2014, 2, 1039-1046.   | 10.3 | 67        |
| 54 | Growth of SiC NWs by vapor phase technique using Fe as catalyst. Materials Letters, 2014, 124, 169-172.   | 2.6  | 26        |

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|----|---|------|-----------|
| 55 | Visible and Infra-red Light Emission in Boron-Doped Wurtzite Silicon Nanowires. Scientific Reports, 2014, 4, 3603.  | 3.3  | 46        |
| 56 | Zn vacancy induced green luminescence on non-polar surfaces in ZnO nanostructures. Scientific Reports, 2014, 4, 5158.   | 3.3  | 144       |
| 57 | Electronic properties of CuPc and H2Pc: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2013, 15, 12864.  | 2.8  | 51        |
| 58 | Surface Functionalization of Nanostructured Fe <sub>2</sub> O <sub>3</sub> Polymorphs: From Design to Light-Activated Applications. ACS Applied Materials & Interfaces, 2013, 5, 7130-7138.   | 8.0  | 44        |
| 59 | Cathodoluminescence of Self-assembled Nanosystems. , 2013, , 557-601.   |      | 2         |
| 60 | Structural and luminescence properties of HfO <sub>2</sub> nanocrystals grown by atomic layer deposition on SiC/SiO <sub>2</sub> core/shell nanowires. Scripta Materialia, 2013, 69, 744-747. | 5.2  | 7         |
| 61 | Thermal Processing and Characterizations of Dye-Sensitized Solar Cells Based on Nanostructured TiO <sub>2</sub> . Journal of Physical Chemistry C, 2013, 117, 3729-3738.                      | 3.1  | 5         |
| 62 | Ion irradiation induced formation of CdO microcrystals on CdTe surfaces. Materials Letters, 2013, 92, 397-400.  | 2.6  | 7         |
| 63 | Preparing the Way for Doping Wurtzite Silicon Nanowires while Retaining the Phase. Nano Letters, 2013, 13, 5900-5906.   | 9.1  | 32        |
| 64 | Efficiency Improvement of DSSC Photoanode by Scandium Doping of Mesoporous Titania Beads. Journal of Physical Chemistry C, 2013, 117, 25276-25289.  | 3.1  | 69        |
| 65 | Degradation of InGaN/GaN laser diodes investigated by micro-cathodoluminescence and micro-photoluminescence. Applied Physics Letters, 2013, 103, .  | 3.3  | 25        |
| 66 | Ultrathin InAlN/GaN heterostructures on sapphire for high on/off current ratio high electron mobility transistors. Journal of Applied Physics, 2013, 113, 214503.                             | 2.5  | 17        |
| 67 | Depth-resolved cathodoluminescence spectroscopy of silicon supersaturated with sulfur. Applied Physics Letters, 2013, 102, .  | 3.3  | 14        |
| 68 | Selective $\hat{1}^2$ -SiC/SiO <sub>2</sub> Core-Shell NW Growth on Patterned Silicon Substrate. Materials Science Forum, 2012, 711, 75-79.   | 0.3  | 1         |
| 69 | Emission Enhancement of SiC/SiO <sub>2</sub> Core/Shell Nanowires Induced by the Oxide Shell. Materials Science Forum, 2012, 717-720, 557-560.  | 0.3  | 1         |
| 70 | Excitonic recombination in superstoichiometric nanocrystalline TiO <sub>2</sub> grown by cluster precursors at room temperature. Physical Chemistry Chemical Physics, 2012, 14, 5705.         | 2.8  | 6         |
| 71 | Epitaxy of Nanocrystalline Silicon Carbide on Si(111) at Room Temperature. Journal of the American Chemical Society, 2012, 134, 17400-17403.  | 13.7 | 30        |
| 72 | Optical properties of hybrid T3Pyr/SiO <sub>2</sub> /3C-SiC nanowires. Nanoscale Research Letters, 2012, 7, 680.  | 5.7  | 19        |

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|----|---|------|-----------|
| 73 | Growth of InAs/InAsSb heterostructured nanowires. Nanotechnology, 2012, 23, 115606.   | 2.6  | 48        |
| 74 | Luminescence properties of SiC/SiO <sub>2</sub> core-shell nanowires with different radial structure. Materials Letters, 2012, 71, 137-140.   | 2.6  | 34        |
| 75 | Synthesis of AlAs and AlAs-GaAs Core-Shell Nanowires. Crystal Growth and Design, 2011, 11, 4053-4058.   | 3.0  | 11        |
| 76 | The Effect of Substrate Type on SiC Nanowire Orientation. Journal of Nanoscience and Nanotechnology, 2011, 11, 4109-4113.   | 0.9  | 9         |
| 77 | InAs/InP/InSb Nanowires as Low Capacitance Heterojunction Diodes. Physical Review X, 2011, 1, .   | 8.9  | 21        |
| 78 | Assessment of Semiconductors by Scanning Electron Microscopy Techniques. , 2011, , 308-356.   |      | 5         |
| 79 | Cathodoluminescence Spectroscopy and Imaging of Semiconductor Nanostructures. Microscopy and Microanalysis, 2010, 16, 814-815.  | 0.4  | 0         |
| 80 | Room Temperature Strong Infra-Red Light Emission of Boron Doped Silicon Nanowires. Microscopy and Microanalysis, 2010, 16, 824-825.   | 0.4  | 0         |
| 81 | Optical, Structural and Interface Characterization of Single SiO <sub>2</sub> -SiC Core-Shell Nanowires Grown with a Low-Cost Method. Microscopy and Microanalysis, 2010, 16, 826-827.  | 0.4  | 0         |
| 82 | Effects of Chemical Treatment on the Luminescence of ZnO. Journal of Electronic Materials, 2010, 39, 761-765.   | 2.2  | 4         |
| 83 | Coexistence of Vapor-Liquid-Solid and Vapor-Solid-Solid Growth Modes in Pd-Assisted InAs Nanowires. Small, 2010, 6, 1935-1941.  | 10.0 | 19        |
| 84 | Enhancement of the core near-band-edge emission induced by an amorphous shell in coaxial one-dimensional nanostructure: the case of SiC/SiO <sub>2</sub> core/shell self-organized nanowires. Nanotechnology, 2010, 21, 345702. | 2.6  | 37        |
| 85 | SiC Epitaxial Growth on Si(100) Substrates Using Carbon Tetrabromide. Materials Science Forum, 2010, 645-648, 139-142.  | 0.3  | 1         |
| 86 | Correlation between kink and cathodoluminescence spectra in AlGaIn/GaN high electron mobility transistors. Applied Physics Letters, 2010, 96, .   | 3.3  | 40        |
| 87 | Faceting of InAs-InSb Heterostructured Nanowires. Crystal Growth and Design, 2010, 10, 4038-4042.   | 3.0  | 49        |
| 88 | Pd-Assisted Growth of InAs Nanowires. Crystal Growth and Design, 2010, 10, 4197-4202.   | 3.0  | 21        |
| 89 | Extensive analysis of the luminescence properties of AlGaIn/GaN high electron mobility transistors. Applied Physics Letters, 2010, 97, 063508.  | 3.3  | 42        |
| 90 | Unpredicted Nucleation of Extended Zinc Blende Phases in Wurtzite ZnO Nanotetrapod Arms. ACS Nano, 2009, 3, 3158-3164.  | 14.6 | 49        |

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|-----|--|-----|-----------|
| 91  | The Challenge for Large-scale Vapor-phase Growths of Not-catalyzed ZnO Nanostructures: Purity vs. Yield. Materials Research Society Symposia Proceedings, 2009, 1174, 43.                            | 0.1 | 0         |
| 92  | A new approach to correlate transport processes and optical efficiency in GaN-based LEDs. Journal Physics D: Applied Physics, 2009, 42, 045110.  | 2.8 | 1         |
| 93  | On the Luminescence of VLS-grown GaAs-AlGaAs Core-Shell Nanowires and its Dependence on MOVPE Growth Conditions. Materials Research Society Symposia Proceedings, 2009, 1206, 113601.                | 0.1 | 0         |
| 94  | A new growth method for the synthesis of 3C-SiC nanowires. Materials Letters, 2009, 63, 2581-2583.   | 2.6 | 22        |
| 95  | Growth and Characterization of 3C-SiC Films for Micro Electro Mechanical Systems (MEMS) Applications. Crystal Growth and Design, 2009, 9, 4852-4859.   | 3.0 | 36        |
| 96  | InAs/InSb nanowire heterostructures grown by chemical beam epitaxy. Nanotechnology, 2009, 20, 505605.  | 2.6 | 119       |
| 97  | Interface properties of HCF <sub>2</sub> Cl annealed CdTe thin films for solar cells applications. Thin Solid Films, 2008, 516, 7075-7078.   | 1.8 | 12        |
| 98  | Luminescence of GaAs/AlGaAs core-shell nanowires grown by MOVPE using tertiarybutylarsine. Journal of Crystal Growth, 2008, 310, 5114-5118.  | 1.5 | 35        |
| 99  | Cathodoluminescence characterization of $\beta$ -SiC nanowires and surface-related silicon dioxide. Materials Science in Semiconductor Processing, 2008, 11, 179-181.                                | 4.0 | 13        |
| 100 | A study of the CdTe treatment with a Freon gas such as CHF <sub>2</sub> Cl. Thin Solid Films, 2008, 516, 7079-7083.  | 1.8 | 40        |
| 101 | Synthesis and characterization of 3C-SiC nanowires. Journal of Non-Crystalline Solids, 2008, 354, 5227-5229.   | 3.1 | 36        |
| 102 | Lanthanide-Doped Scandia and Yttria Cathodoluminescent Films: A Comparative Study. Chemistry of Materials, 2008, 20, 5666-5674.  | 6.7 | 8         |
| 103 | Field dependence of the carrier injection mechanisms in InGaN Quantum wells: Its effect on the luminescence properties of blue light emitting diodes. Journal of Applied Physics, 2008, 103, 093504. | 2.5 | 12        |
| 104 | Power-dependent cathodoluminescence in III-nitrides heterostructures: from internal field screening to controlled band-gap modulation. , 2008, , 209-248.  |     | 3         |
| 105 | Controlled Band Gap Modulation of Hydrogenated Dilute Nitrides by SEM-Cathodoluminescence. Springer Proceedings in Physics, 2008, , 453-458.   | 0.2 | 0         |
| 106 | Visible-Range Luminescence Study in Indium Oxide Nanowires. Materials Research Society Symposia Proceedings, 2007, 1010, 1.  | 0.1 | 0         |
| 107 | Effect of interlayer strain interaction on the island composition and ordering in Ge/Si(001) island superlattices. Journal of Applied Physics, 2007, 102, 043518.                                    | 2.5 | 16        |
| 108 | Hydrogen-induced Nitrogen Passivation in Dilute Nitrides: A Novel Approach to Defect Engineering. Materials Research Society Symposia Proceedings, 2007, 994, 1.                                     | 0.1 | 0         |

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|-----|--|------|-----------|
| 109 | In-Plane Band Gap Engineering by Hydrogenation of Dilute Nitride Semiconductors. AIP Conference Proceedings, 2007, , .   | 0.4  | 0         |
| 110 | Low-temperature In <sub>2</sub> O <sub>3</sub> nanowire luminescence properties as a function of oxidizing thermal treatments. Nanotechnology, 2007, 18, 355707.   | 2.6  | 78        |
| 111 | Role of thermal treatment on the luminescence properties of CdTe thin films for photovoltaic applications. Thin Solid Films, 2007, 515, 6184-6187.   | 1.8  | 22        |
| 112 | Effect of inter-layer strain interaction on the optical properties of Ge/Si(001) island multi-layers. Optoelectronics Letters, 2007, 3, 173-176.   | 0.8  | 0         |
| 113 | Carburisation layers for the growth of silicon carbide on silicon. , 2006, , .   |      | 0         |
| 114 | Influence of short-term low current dc aging on the electrical and optical properties of InGaN blue light-emitting diodes. Journal of Applied Physics, 2006, 99, 053104.   | 2.5  | 84        |
| 115 | On the Role of Oxygen Vacancies in the Determination of the Gas-Sensing Properties of Tin-Oxide Nanowires. Materials Research Society Symposia Proceedings, 2006, 915, 1.  | 0.1  | 2         |
| 116 | Cathodoluminescence characterization of SnO <sub>2</sub> nanoribbons grown by vapor transport technique. Materials Science in Semiconductor Processing, 2006, 9, 331-336.  | 4.0  | 9         |
| 117 | Influence of the fluorine doping on the optical properties of CdS thin films for photovoltaic applications. Thin Solid Films, 2006, 511-512, 448-452.  | 1.8  | 41        |
| 118 | Crystal Growth and Structural Refinement of NaMn <sub>7</sub> O <sub>12</sub> .. ChemInform, 2006, 37, no.   | 0.0  | 0         |
| 119 | In-Plane Bandgap Engineering by Modulated Hydrogenation of Dilute Nitride Semiconductors. Advanced Materials, 2006, 18, 1993-1997.   | 21.0 | 51        |
| 120 | Temperature and current dependence of the optical intensity and energy shift in blue InGaN-based light-emitting diodes: comparison between electroluminescence and cathodoluminescence. Semiconductor Science and Technology, 2006, 21, 638-642. | 2.0  | 8         |
| 121 | Sharp, Long Wavelength Cathodoluminescence Emission from Undoped Semi-insulating GaAs. Japanese Journal of Applied Physics, 2006, 45, 7611-7616.   | 1.5  | 0         |
| 122 | Growth and characterization of red-green-blue cathodoluminescent ceramic films. Journal of Applied Physics, 2006, 99, 123524.  | 2.5  | 10        |
| 123 | Cathodoluminescence investigations on CdTe and Cd <sub>0.96</sub> Zn <sub>0.04</sub> Te crystals. Journal of Luminescence, 2005, 113, 235-242.   | 3.1  | 9         |
| 124 | Nucleation and growth of SnO <sub>2</sub> nanowires. Journal of Crystal Growth, 2005, 275, e2083-e2087.  | 1.5  | 43        |
| 125 | Morphological, structural and optical study of quasi-1D SnO <sub>2</sub> nanowires and nanobelts. Crystal Research and Technology, 2005, 40, 937-941.  | 1.3  | 69        |
| 126 | Crystal growth and structural refinement of NaMn <sub>7</sub> O <sub>12</sub> . Crystal Research and Technology, 2005, 40, 1072-1075.  | 1.3  | 5         |



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|-----|--|-----|-----------|
| 127 | Structural and optical study of SnO <sub>2</sub> nanobelts and nanowires. <i>Materials Science and Engineering C</i> , 2005, 25, 625-630.  | 7.3 | 75        |
| 128 | Investigation of the recombination dynamics in low In-content InGaN MQWs by means of cathodoluminescence and photoluminescence excitation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 817-821. | 0.8 | 1         |
| 129 | Cathodoluminescence spectroscopy of single SnO <sub>2</sub> nanowires and nanobelts. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 2963-2970.   | 1.8 | 20        |
| 130 | Formation of Ferromagnetic SiC:Mn Phases. <i>Materials Science Forum</i> , 2005, 483-485, 241-244.   | 0.3 | 2         |
| 131 | Optical characterization of radiative deep centres in 6H-SiC junction field effect transistors. <i>Semiconductor Science and Technology</i> , 2004, 19, 45-49.   | 2.0 | 6         |
| 132 | Narrow, deep level cathodoluminescence emission from semi-insulating GaAs. <i>Applied Physics Letters</i> , 2004, 84, 197-199.   | 3.3 | 2         |
| 133 | Optical and structural characterization of self-organized stacked GaN/AlN quantum dots. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S115-S126.  | 1.8 | 23        |
| 134 | Optical evidence of an electrothermal degradation of InGaN-based light-emitting diodes during electrical stress. <i>Applied Physics Letters</i> , 2004, 84, 3403-3405.   | 3.3 | 60        |
| 135 | Influence of long-term DC-aging and high power electron beam irradiation on the electrical and optical properties of InGaN LEDs. <i>EPL Applied Physics</i> , 2004, 27, 345-348.   | 0.7 | 5         |
| 136 | Recombination dynamics in InGaN/GaN quantum wells: role of the piezoelectric field versus carrier localization. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 1397-1402.                          | 0.8 | 2         |
| 137 | Stoichiometry related defects in CdTe crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 735-738.  | 0.8 | 9         |
| 138 | The role of Mg complexes in the degradation of InGaN-based LEDs. <i>Superlattices and Microstructures</i> , 2004, 36, 859-868.   | 3.1 | 10        |
| 139 | Cathodoluminescence and micro-Raman characterisation of GaN/AlN QDs grown on Si (111). <i>Physica Status Solidi A</i> , 2003, 195, 26-31.  | 1.7 | 7         |
| 140 | Correlation between Internal Electric Fields, Residual Strain and Optical Transitions in GaN/AlN Stacked Quantum Dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 346-350.                     | 0.8 | 2         |
| 141 | Electron-beam-induced current and cathodoluminescence characterization of InGaAs strain-balanced multiquantum well photovoltaic cells. <i>Journal of Applied Physics</i> , 2003, 94, 6341-6345.                                      | 2.5 | 10        |
| 142 | Cathodoluminescence characterization of dislocations in gallium nitride using a transmission electron microscope. <i>Journal of Applied Physics</i> , 2003, 94, 4315-4319.   | 2.5 | 60        |
| 143 | A Structural Study of InGaAs/InGaAs Strain-Balanced MQW for TPV Applications. <i>AIP Conference Proceedings</i> , 2003, , .  | 0.4 | 0         |
| 144 | Characterization of GaN-based metal-semiconductor field-effect transistors by comparing electroluminescence, photoionization, and cathodoluminescence spectroscopies. <i>Journal of Applied Physics</i> , 2002, 92, 2401-2405.       | 2.5 | 14        |

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