# Bertrand Lacroix

List of Publications by Year
in descending order



| 48 | 692 | 516561 16 | 610775 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 48 | 48 | 48 | 1055 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Application of advanced (S)TEM methods for the study of nanostructured porous functional surfaces: A few working examples. Materials Characterization, 2022, 185, 111741. | 1.9 | 5 |
| 2 | Anisotropic optical properties of indium tin oxide thin films prepared by ion beam sputtering under oblique angle deposition. Applied Surface Science, 2022, 595, 152945. | 3.1 | 6 |
| 3 | Reduction of N<sub>2</sub>O with hydrosilanes catalysed by RuSNS nanoparticles. Chemical Communications, 2022, 58, 7176-7179. | 2.2 | 5 |
| 4 | Controlled grain-size thermochromic VO2 coatings by the fast oxidation of sputtered vanadium or vanadium oxide films deposited at glancing angles. Surfaces and Interfaces, 2021, 27, 101581. | 1.5 | 6 |
| 5 | Simultaneous Optical and Electrical Characterization of GaN Nanowire Arrays by Means of Vis-IR Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2020, 124, 1535-1543. | 1.5 | 5 |
| 6 | Biodegradable double cross-linked chitosan hydrogels for drug delivery: Impact of chemistry on rheological and pharmacological performance. International Journal of Biological Macromolecules, 2020, 165, 2205-2218. | 3.6 | 27 |
| 7 | Optical and nanostructural insights of oblique angle deposited layers applied for photonic coatings. Applied Surface Science, 2020, 520, 146312. | 3.1 | 7 |
| 8 | Platinum nanoparticles stabilized by N-heterocyclic thiones. Synthesis and catalytic activity in mono- and di-hydroboration of alkynes. Nanoscale, 2020, 12, 6821-6831. | 2.8 | 18 |
| 9 | On the importance of light scattering for high performances nanostructured antireflective surfaces. Acta Materialia, 2020, 188, 386-393. | 3.8 | 5 |
| 10 | Surface oxidation of amorphous Si and Ge slanted columnar and mesoporous thin films: Evidence, scrutiny and limitations for infrared optics. Applied Surface Science, 2019, 493, 807-817. | 3.1 | 8 |
| 11 | Nanostructure and Physical Properties Control of Indium Tin Oxide Films Prepared at Room Temperature through Ion Beam Sputtering Deposition at Oblique Angles. Journal of Physical Chemistry C, 2019, 123, 14036-14046. | 1.5 | 12 |
| 12 | Porosity Control for Plasma-Assisted Molecular Beam Epitaxy of GaN Nanowires. Crystal Growth and Design, 2019, 19, 2461-2469. | 1.4 | 7 |
| 13 | Exchange bias and two steps magnetization reversal in porous Co/CoO layer. Materials and Design, 2019, 171, 107691. | 3.3 | 10 |
| 14 | Towards perfect MWIR transparency using oblique angle deposition. Applied Surface Science, 2019, 470, 943-950. | 3.1 | 9 |
| 15 | Growth of nanocolumnar thin films on patterned substrates at oblique angles. Plasma Processes and Polymers, 2019, 16, 1800135. | 1.6 | 11 |
| 16 | The nanostructure of porous cobalt coatings deposited by magnetron sputtering in helium atmosphere. Micron, 2018, 108, 49-54. | 1.1 | 13 |
| 17 | Engineering of III-Nitride Semiconductors on Low Temperature Co-fired Ceramics. Scientific Reports, 2018, 8, 6879. | 1.6 | 6 |
| 18 | Fundamental aspects about the first steps of irradiation-induced phase transformations in fluorite-related oxides. Acta Materialia, 2018, 153, 303-313. | 3.8 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Core cross-linked nanoparticles from self-assembling polyfma-based micelles. Encapsulation of lipophilic molecules. European Polymer Journal, 2017, 89, 406-418. | 2.6 | 12 |
| 20 | Stabilisation of gold nanoparticles by N-heterocyclic thiones. Dalton Transactions, 2017, 46, 8367-8371. | 1.6 | 19 |
| 21 | Low temperature epitaxial deposition of GaN on LTCC substrates. , 2017, , . | | 1 |
| 22 | Disorderâ€“order phase transformation in a fluorite-related oxide thin film: In-situ X-ray diffraction and modelling of the residual stress effects. Thin Solid Films, 2016, 601, 84-88. | 0.8 | 22 |
| 23 | Effects of electronic and nuclear stopping power on disorder induced in GaN under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2016, 381, 39-44. | 0.6 | 16 |
| 24 | Manganese Dioxide Supported on Porous Biomorphic Carbons as Hybrid Materials for Energy Storage Devices. ACS Applied Materials & Interfaces, 2016, 8, 30890-30898. | 4.0 | 15 |
| 25 | Nitrogen Nanobubbles in a-SiO<sub>x</sub>N<sub>y</sub> Coatings: Evaluation of Its Physical Properties and Chemical Bonding State by Spatially Resolved Electron Energy-Loss Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 5651-5658. | 1.5 | 10 |
| 26 | Fabrication of Optical Multilayer Devices from Porous Silicon Coatings with Closed Porosity by Magnetron Sputtering. ACS Applied Materials & Interfaces, 2015, 7, 13889-13897. | 4.0 | 13 |
| 27 | STEMâ€“EELS analysis reveals stable high-density He in nanopores of amorphous silicon coatings deposited by magnetron sputtering. Nanotechnology, 2015, 26, 075703. | 1.3 | 29 |
| 28 | Direct imaging of rare-earth ion clusters in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Yb</mml:mi><mml:mo>:</mml:mo><mml:msub><mml:mi>CaF</mml:mi><mml:mn>2</mml:mn></mml:msub><br>Physical Review B, 2014, 90, . | 1.1 | 34 |
| 29 | Ion irradiation-induced diffusion in bixbyite-fluorite related oxides: Dislocations and phase transformation. Nuclear Instruments & Methods in Physics Research B, 2014, 327, 44-46. | 0.6 | 1 |
| 30 | Surface and crystal structure of nitridated sapphire substrates and their effect on polar InN layers. Applied Surface Science, 2014, 307, 461-467. | 3.1 | 11 |
| 31 | Synthesis, structuring and characterization of rare earth oxide thin films: Modeling of the effects of stress and defects on the phase stability. Thin Solid Films, 2014, 553, 43-46. | 0.8 | 3 |
| 32 | Phase transformations in Y2O3 thin films under swift Xe ions irradiation. Nuclear Instruments & Methods in Physics Research B, 2013, 310, 6-9. | 0.6 | 16 |
| 33 | Ion irradiation-induced phase transformation mechanisms in Y2O3 thin films. Nuclear Instruments & Methods in Physics Research B, 2013, 311, 86-92. | 0.6 | 29 |
| 34 | Polarity determination of polar and semipolar (112Â¯2)â€‰InN and GaN layers by valence band photoemission spectroscopy. Journal of Applied Physics, 2013, 114, . | 1.1 | 30 |
| 35 | Mechanisms of damage formation in Eu-implanted AlN. Journal of Applied Physics, 2012, 112, . | 1.1 | 27 |
| 36 | Defect evolution and interplay in n-type InN. Applied Physics Letters, 2012, 100, 091907. | 1.5 | 10 |

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|---|---|---|---|
| 37 | Infrared photoluminescence of high Inâ€content InN/InGaN multipleâ€quantumâ€wells. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 17-20. | 0.8 | 4 |
| 38 | Ion irradiation-induced phase transformations in bixbyite-fluorite related oxides: The role of dislocation loop nucleation. Nuclear Instruments & Methods in Physics Research B, 2012, 277, 18-20. | 0.6 | 3 |
| 39 | A mechanism for damage formation in GaN during rare earth ion implantation at medium range energy and room temperature. Journal of Applied Physics, 2011, 109, . | 1.1 | 47 |
| 40 | Microstructural and conductivity changes induced by annealing of ZnO:B thin films deposited by chemical vapour deposition. Journal of Physics Condensed Matter, 2011, 23, 334209. | 0.7 | 13 |
| 41 | Mechanisms of damage formation in Eu-implanted GaN probed by X-ray diffraction. Europhysics Letters, 2011, 96, 46002. | 0.7 | 39 |
| 42 | The high sensitivity of InN under rare earth ion implantation at medium range energy. Journal Physics D: Applied Physics, 2011, 44, 295402. | 1.3 | 13 |
| 43 | Nonlinear absorption of InN/InGaN multiple-quantum-well structures at optical telecommunication wavelengths. Applied Physics Letters, 2011, 98, . | 1.5 | 27 |
| 44 | Crystal defects and related stress in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>thin films: O | 1.1 | 46 |
| 45 | Damage formation in GaN under medium energy range implantation of rare earth ions: a combined TEM, XRD and RBS/C investigation. Materials Research Society Symposia Proceedings, 2011, 1342, 35. | 0.1 | 0 |
| 46 | Efficient blocking of planar defects by prismatic stacking faults in semipolar (112Â¯2)-GaN layers on m-sapphire by epitaxial lateral overgrowth. Applied Physics Letters, 2011, 98, 121916. | 1.5 | 21 |
| 47 | Study of defects and structural transformations induced by ion irradiation of Y2O3 thin films deposited by Ion Beam Sputtering. Materials Research Society Symposia Proceedings, 2008, 1122, 4. | 0.1 | 0 |
| 48 | Yttrium oxide thin films: Influence of the oxygen vacancy network organization on the microstructure. Thin Solid Films, 2007, 515, 6385-6390. | 0.8 | 21 |