

Luiz F. Zagonel

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,794
citations

279798

23
h-index

276875

41
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62
all docs

62
docs citations

62
times ranked

2766
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and implementation of a device based on an off-axis parabolic mirror to perform luminescence experiments in a scanning tunneling microscope. Review of Scientific Instruments, 2022, 93, 043704.	1.3	2
2	Epitaxial growth, electronic hybridization and stability under oxidation of monolayer MoS ₂ on Ag(1 1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.1	9
3	Multidimensional coherent spectroscopy reveals triplet state coherences in cesium lead-halide perovskite nanocrystals. Science Advances, 2021, 7, .	10.3	24
4	Toward Engineering Intrinsic Line Widths and Line Broadening in Perovskite Nanoplatelets. ACS Nano, 2021, 15, 6499-6506.	14.6	17
5	Band gap measurements of monolayer h-BN and insights into carbon-related point defects. 2D Materials, 2021, 8, 044001.	4.4	34
6	Effect of the period of the substrate oscillation in the dynamic glancing angle deposition technique: A columnar periodic nanostructure formation. Surface and Coatings Technology, 2020, 383, 125237.	4.8	10
7	Tunneling-current-induced local excitonic luminescence in p-doped WSe ₂ monolayers. Nanoscale, 2020, 12, 13460-13470.	5.6	21
8	Effective killing of bacteria under blue-light irradiation promoted by green synthesized silver nanoparticles loaded on reduced graphene oxide sheets. Materials Science and Engineering C, 2020, 113, 110984.	7.3	28
9	Revealing the Role of Tin(IV) Halides in the Anisotropic Growth of CsPbX ₃ Perovskite Nanoplates. Angewandte Chemie - International Edition, 2020, 59, 11501-11509.	13.8	22
10	Physical and micro-nano-structure properties of chromium nitride coating deposited by RF sputtering using dynamic glancing angle deposition. Surface and Coatings Technology, 2019, 372, 268-277.	4.8	20
11	Effect of dimensionality on the optical absorption properties of CsPbI ₃ perovskite nanocrystals. Journal of Chemical Physics, 2019, 151, 191103.	3.0	26
12	Stimulated electron energy loss and gain in an electron microscope without a pulsed electron gun. Ultramicroscopy, 2019, 203, 44-51.	1.9	36
13	Polarization-Selective Excitation of Triplet State Coherences in CsPbI ₃ Perovskite Nanocrystals. , 2019, , .		0
14	Study of nitrogen ion doping of titanium dioxide films. Applied Surface Science, 2018, 443, 619-627.	6.1	21
15	Cathodoluminescence in the scanning transmission electron microscope. Ultramicroscopy, 2017, 176, 112-131.	1.9	97
16	Publisher's Note. Ultramicroscopy, 2017, 174, 50.	1.9	21
17	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. Microscopy and Microanalysis, 2017, 23, 1528-1529.	0.4	0
18	Exploring Au Droplet Motion in Nanowire Growth: A Simple Route toward Asymmetric GaP Morphologies. Nano Letters, 2017, 17, 7274-7282.	9.1	5

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19	Nanometer-scale monitoring of quantum-confined Stark effect and emission efficiency droop in multiple GaN/AlN quantum disks in nanowires. <i>Physical Review B</i> , 2016, 93, .	3.2	17
20	Unveiling Nanometer Scale Extinction and Scattering Phenomena through Combined Electron Energy Loss Spectroscopy and Cathodoluminescence Measurements. <i>Nano Letters</i> , 2015, 15, 1229-1237.	9.1	143
21	Effect of bombarding steel with Xe ⁺ ions on the surface nanostructure and on pulsed plasma nitriding process. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 261-269.	4.0	11
22	Seeing and measuring in colours: Electron microscopy and spectroscopies applied to nano-optics. <i>Comptes Rendus Physique</i> , 2014, 15, 158-175.	0.9	43
23	Accessing the optical properties of single nanoobjects at the nanometer scale through fast electron based spectroscopies. , 2014, , .		0
24	The effect of noble gas bombarding on nitrogen diffusion in steel. <i>Materials Chemistry and Physics</i> , 2013, 143, 116-123.	4.0	6
25	Spatial modulation of above-the-gap cathodoluminescence in InP nanowires. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 505303.	1.8	2
26	Photocatalytic hydrogen production of Co(OH) ₂ nanoparticle-coated γ -Fe ₂ O ₃ nanorings. <i>Nanoscale</i> , 2013, 5, 9310.	5.6	59
27	Influence of the structure and composition of titanium nitride substrates on carbon nanotubes grown by chemical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 155308.	2.8	4
28	Visualizing highly localized luminescence in GaN/AlN heterostructures in nanowires. <i>Nanotechnology</i> , 2012, 23, 455205.	2.6	31
29	Single-Wire Light-Emitting Diodes Based on GaN Wires Containing Both Polar and Nonpolar InGaN/GaN Quantum Wells. <i>Applied Physics Express</i> , 2012, 5, 014101.	2.4	58
30	Growth mechanism and properties of InGaN insertions in GaN nanowires. <i>Nanotechnology</i> , 2012, 23, 135703.	2.6	67
31	Nanosized precipitates in H13 tool steel low temperature plasma nitriding. <i>Surface and Coatings Technology</i> , 2012, 207, 72-78.	4.8	40
32	High-Resolution Scanning Transmission Electron Microscopy (HRSTEM) Techniques: High-Resolution Imaging and Spectroscopy Side by Side. <i>ChemPhysChem</i> , 2012, 13, 437-443.	2.1	12
33	Nanometer Scale Spectral Imaging of Quantum Emitters in Nanowires and Its Correlation to Their Atomically Resolved Structure. <i>Nano Letters</i> , 2011, 11, 568-573.	9.1	165
34	Double strain state in a single GaN/AlN nanowire: Probing the core-shell effect by ultraviolet resonant Raman scattering. <i>Physical Review B</i> , 2011, 83, .	3.2	32
35	Blue-phase liquid-crystal mixtures and their induced stabilization by photopolymerization. <i>Journal of the Society for Information Display</i> , 2011, 19, 781-786.	2.1	1
36	Enhanced Eshelby Twist on Thin Wurtzite InP Nanowires and Measurement of Local Crystal Rotation. <i>Physical Review Letters</i> , 2011, 107, 195503.	7.8	29

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37	Full field chemical imaging of buried native sub-oxide layers on doped silicon patterns. Surface Science, 2010, 604, 1628-1636.	1.9	19
38	Surface enhanced covalency and Madelung potentials in Nb doped SrTiO ₃ (100), (110) and (111) single crystals. Surface Science, 2010, 604, 1674-1683.	1.9	19
39	GaN/AlN quantum disc single nanowire photodetectors. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1323-1327.	1.8	10
40	Imaging and quantifying the morphology of an organic-inorganic nanoparticle at the sub-nanometre level. Nature Nanotechnology, 2010, 5, 538-544.	31.5	65
41	Ultraviolet Photodetector Based on GaN/AlN Quantum Disks in a Single Nanowire. Nano Letters, 2010, 10, 2939-2943.	9.1	155
42	Multiple scattering x-ray photoelectron diffraction study of the SrTiO ₃ (100) surface. Journal of Applied Physics, 2009, 106, .	2.5	18
43	Aspects of lateral resolution in energy-filtered core level photoelectron emission microscopy. Journal of Physics Condensed Matter, 2009, 21, 314002.	1.8	14
44	Orientation-dependent work function of <i>in situ</i> annealed strontium titanate. Journal of Physics Condensed Matter, 2009, 21, 314013.	1.8	34
45	Spatially resolved, energy-filtered imaging of core level and valence band photoemission of highly p and n doped silicon patterns. Journal of Physics Condensed Matter, 2009, 21, 314015.	1.8	16
46	X-ray Photoelectron Spectromicroscopy of Doped Silicon Patterns. , 2009, , .		0
47	Microstructure of tool steel after low temperature ion nitriding. Materials Science and Technology, 2009, 25, 726-732.	1.6	14
48	Orientation-dependent surface composition of <i>in situ</i> annealed strontium titanate. Surface and Interface Analysis, 2008, 40, 1709-1712.	1.8	23
49	Influence of the microstructure on the residual stresses of nitrided iron-chromium alloys. Acta Materialia, 2008, 56, 1196-1208.	7.9	36
50	Local silicon doping as a promoter of patterned electrografting of diazonium for directed surface functionalization. Journal of Materials Chemistry, 2008, 18, 3136.	6.7	30
51	Direct Quantification of Gold along a Single Si Nanowire. Nano Letters, 2008, 8, 3709-3714.	9.1	46
52	Changes in macroscopic behaviour through segregation in niobium doped strontium titanate. Journal of Physics: Conference Series, 2008, 94, 012015.	0.4	5
53	Energy-filtered XPEEM with NanoESCA using synchrotron and laboratory X-ray sources: Principles and first demonstrated results. Surface Science, 2007, 601, 4727-4732.	1.9	41
54	Growth of nitrogenated fullerene-like carbon on Ni islands by ion beam sputtering. Carbon, 2007, 45, 2678-2684.	10.3	14

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55	Tool steel ion beam assisted nitrocarburization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 465, 194-198.	5.6	6
56	Effect of Carbon on the Compound Layer Properties of AISI H13 Tool Steel in Pulsed Plasma Nitrocarburizing. Plasma Processes and Polymers, 2007, 4, S728-S731.	3.0	22
57	Precipitates Temperature Dependence in Ion Beam Nitrided AISI H13 Tool Steel. Plasma Processes and Polymers, 2007, 4, S736-S740.	3.0	4
58	Influence of the process temperature on the steel microstructure and hardening in pulsed plasma nitriding. Surface and Coatings Technology, 2006, 201, 452-457.	4.8	63
59	Magnetization switching in vicinal (111) iron and cobalt thin films. Physica B: Condensed Matter, 2006, 384, 135-137.	2.7	1
60	In situ photoemission electron spectroscopy study of nitrogen ion implanted AISI-H13 steel. Surface and Coatings Technology, 2005, 200, 2566-2570.	4.8	12
61	Oriented Carbon Nanostructures Containing Nitrogen Obtained by Ion Beam Assisted Deposition. Journal of Nanoscience and Nanotechnology, 2005, 5, 188-191.	0.9	8