Luiz Hg Tizei

List of Publications by Year
in descending order

70 papers	2,227 citations	279701 23 h-index	223716 46 g-index
70 all docs	70 docs citations	70 times ranked	3354 citing authors

#	Article	IF	Citations
1	Electroreduction of CO₂ on Singleâ€Site Copperâ€Nitrogenâ€Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. Angewandte Chemie - International Edition, 2019, 58, 15098-15103.	7.2	369
2	Bright UV Single Photon Emission at Point Defects in <i>h</i>-BN. Nano Letters, 2016, 16, 4317-4321.	4.5	321
3	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. Science, 2021, 374, 621-625.	6.0	137
4	Photon Bunching in Cathodoluminescence. Physical Review Letters, 2015, 114, 197401.	2.9	97
5	Spatially Resolved Quantum Nano-Optics of Single Photons Using an Electron Microscope. Physical Review Letters, 2013, 110, 153604.	2.9	88
6	Nanometric Resolved Luminescence in h-BN Flakes: Excitons and Stacking Order. ACS Photonics, 2014, 1, 857-862.	3.2	80
7	Exciton Mapping at Subwavelength Scales in Two-Dimensional Materials. Physical Review Letters, 2015, 114, 107601.	2.9	79
8	Visualizing Spatial Variations of Plasmonâ€"Exciton Polaritons at the Nanoscale Using Electron Microscopy. Nano Letters, 2019, 19, 8171-8181.	4.5	77
9	Valence-band splitting energies in wurtzite InP nanowires: Photoluminescence spectroscopy and<i>ab initio</i>calculations. Physical Review B, 2010, 82, .	1.1	60
10	Carbonâ€Nanotubeâ€Supported Copper Polyphthalocyanine for Efficient and Selective Electrocatalytic CO₂ Reduction to CO. ChemSusChem, 2020, 13, 173-179.	3.6	60
11	Spatiotemporal imaging of 2D polariton wave packet dynamics using free electrons. Science, 2021, 372, 1181-1186.	6.0	56
12	Spectrally and spatially resolved cathodoluminescence of nanodiamonds: local variations of the NV⁰emission properties. Nanotechnology, 2012, 23, 175702.	1.3	53
13	Seeing and measuring in colours: Electron microscopy and spectroscopies applied to nano-optics. Comptes Rendus Physique, 2014, 15, 158-175.	0.3	43
14	Can Copper Nanostructures Sustain High-Quality Plasmons?. Nano Letters, 2021, 21, 2444-2452.	4.5	43
15	Lifetime Measurements Well below the Optical Diffraction Limit. ACS Photonics, 2016, 3, 1157-1163.	3.2	37
16	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. Nano Letters, 2020, 20, 2973-2979.	4.5	36
17	Structure and Local Chemical Properties of Boron-Terminated Tetravacancies in Hexagonal Boron Nitride. Physical Review Letters, 2015, 114, 075502.	2.9	33
18	Interplay Between Cr Dopants and Vacancy Clustering in the Structural and Optical Properties of WSe₂. ACS Nano, 2017, 11, 11162-11168.	7.3	33

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19	Spontaneous Periodic Diameter Oscillations in InP Nanowires: The Role of Interface Instabilities. Nano Letters, 2013, 13, 9-13.	4.5	32
20	Enhanced Eshelby Twist on Thin Wurtzite InP Nanowires and Measurement of Local Crystal Rotation. Physical Review Letters, 2011, 107, 195503.	2.9	29
21	Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds. Nanoscale, 2016, 8, 11588-11594.	2.8	29
22	Self-hybridization within non-Hermitian localized plasmonic systems. Nature Physics, 2018, 14, 360-364.	6.5	28
23	Probing Plasmon-NV⁰ Coupling at the Nanometer Scale with Photons and Fast Electrons. ACS Photonics, 2018, 5, 324-328.	3.2	24
24	Postsynthesis of hâ€BN/Graphene Heterostructures Inside a STEM. Small, 2016, 12, 252-259.	5.2	23
25	Nanoscale Modification of WS₂ Trion Emission by Its Local Electromagnetic Environment. Nano Letters, 2021, 21, 10178-10185.	4.5	23
26	Optical gap and optically active intragap defects in cubic BN. Physical Review B, 2018, 98, .	1.1	22
27	Kinetic Effects in InP Nanowire Growth and Stacking Fault Formation: The Role of Interface Roughening. Nano Letters, 2011, 11, 1934-1940.	4.5	19
28	Spatially and spectrally resolved cathodoluminescence with fast electrons: A tool for background subtraction in luminescence intensity secondâ€order correlation measurements applied to subwavelength inhomogeneous diamond nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2060-2065.	0.8	17
29	Nanometer-scale monitoring of quantum-confined Stark effect and emission efficiency droop in multiple GaN/AlN quantum disks in nanowires. Physical Review B, 2016, 93, .	1.1	17
30	Spatial and spectral dynamics in STEM hyperspectral imaging using random scan patterns. Ultramicroscopy, 2020, 212, 112912.	0.8	17
31	Mapping Modified Electronic Levels in the MoirÃ© Patterns in MoS₂/WSe₂ Using Low-Loss EELS. Nano Letters, 2021, 21, 4071-4077.	4.5	16
32	IIIâ€"V semiconductor nanowire growth: does arsenic diffuse through the metal nanoparticle catalyst?. Nanotechnology, 2009, 20, 275604.	1.3	15
33	Time-resolved cathodoluminescence in an ultrafast transmission electron microscope. Applied Physics Letters, 2021, 119, .	1.5	15
34	Unveiling the Coupling of Single Metallic Nanoparticles to Whispering-Gallery Microcavities. Nano Letters, 2022, 22, 319-327.	4.5	15
35	Electron energy loss spectroscopy of excitons in two-dimensional-semiconductors as a function of temperature. Applied Physics Letters, 2016, 108, .	1.5	14
36	Event-based hyperspectral EELS: towards nanosecond temporal resolution. Ultramicroscopy, 2022, 239, 113539.	0.8	13

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37	Core-Level Spectroscopy to Probe the Oxidation State of Single Europium Atoms. Physical Review Letters, 2015, 114, 197602.	2.9	12
38	Single atom spectroscopy: Decreased scattering delocalization at high energy losses, effects of atomic movement and X-ray fluorescence yield. Ultramicroscopy, 2016, 160, 239-246.	0.8	12
39	Solvothermally-synthesized tin-doped indium oxide plasmonic nanocrystals spray-deposited onto glass as near-infrared electrochromic films. Solar Energy Materials and Solar Cells, 2019, 200, 110014.	3.0	12
40	Incorporation of Europium into GaN Nanowires by Ion Implantation. Journal of Physical Chemistry C, 2019, 123, 11874-11887.	1.5	12
41	A polarity-driven nanometric luminescence asymmetry in AlN/GaN heterostructures. Applied Physics Letters, 2014, 105, 143106.	1.5	11
42	Interaction between lamellar twinning and catalyst dynamics in spontaneous coreâ€“shell InGaP nanowires. Nanoscale, 2015, 7, 12722-12727.	2.8	11
43	Nanocross: A Highly Tunable Plasmonic System. Journal of Physical Chemistry C, 2017, 121, 16521-16527.	1.5	10
44	Electronic structure and optical properties of semiconductor nanowires polytypes. European Physical Journal B, 2020, 93, 1.	0.6	10
45	Monolayer and thin <i>h</i>â€“BN as substrates for electron spectro-microscopy analysis of plasmonic nanoparticles. Applied Physics Letters, 2018, 113, .	1.5	9
46	Characterization of interface abruptness and material properties in catalytically grown IIIâ€“V nanowires: exploiting plasmon chemical shift. Nanotechnology, 2010, 21, 295701.	1.3	7
47	Single Molecular Spectroscopy: Identification of Individual Fullerene Molecules. Physical Review Letters, 2014, 113, 185502.	2.9	7
48	The role of mobility in epidemic dynamics. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120663.	1.2	7
49	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part I, Reducing Reconstruction Bias. Microscopy and Microanalysis, 2022, 28, 338-349.	0.2	7
50	Different growth regimes in InP nanowire growth mediated by Ag nanoparticles. Nanotechnology, 2017, 28, 505604.	1.3	5
51	Emergence of point defect states in a plasmonic crystal. Physical Review B, 2019, 100, .	1.1	5
52	New Directions Toward Nanophysics Experiments in STEM. Microscopy and Microanalysis, 2018, 24, 434-435.	0.2	3
53	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. Nano Research, 2019, 12, 939-946.	5.8	3
54	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part II. Uncertainty Intervals. Microscopy and Microanalysis, 2022, 28, 723-731.	0.2	3

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55	Spatial carrier distribution in InP/GaAs type II quantum dots and quantum posts. Nanotechnology, 2011, 22, 065703.	1.3	2
56	Spatial modulation of above-the-gap cathodoluminescence in InP nanowires. Journal of Physics Condensed Matter, 2013, 25, 505303.	0.7	2
57	Quantum Nanooptics in the Electron Microscope. Advances in Imaging and Electron Physics, 2017, 199, 185-235.	0.1	2
58	Enhanced sputter and secondary ion yields using MeV gold nanoparticle beams delivered by the Andromede facility. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 044008.	0.6	2
59	Heterostructure interface roughness characterization by chemical mapping: Application to InGaP/GaAs quantum wells. Journal of Applied Physics, 2008, 104, 074311.	1.1	1
60	Low Loss EELS of Lateral MoS₂/WS₂ Heterostructures. Microscopy and Microanalysis, 2019, 25, 640-641.	0.2	1
61	Understanding transition metal dichalcogenide absorption line widths in electron energy loss spectroscopy. Microscopy and Microanalysis, 2021, 27, 1170-1172.	0.2	1
62	Quantum nano optics of defect centers in diamond and h-BN with nano-cathodoluminescence. , 2014, , .		0
63	Monochromated EELS to Probe the Local Optical Properties of Low-Dimensional Materials. Microscopy and Microanalysis, 2016, 22, 950-951.	0.2	0
64	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. Microscopy and Microanalysis, 2017, 23, 1528-1529.	0.2	0
65	High spectral resolution EELS to probe optics at the nanometer scale. Microscopy and Microanalysis, 2019, 25, 630-631.	0.2	0
66	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. Microscopy and Microanalysis, 2021, 27, 320-321.	0.2	0
67	Correlative Luminescence and Absorption Spectroscopy from Monolayer WSe2 at the Nanoscale. Microscopy and Microanalysis, 2021, 27, 1470-1472.	0.2	0
68	Measurement of the autocorrelation function of a cathodoluminescence signal: characteristics and applications in nanosecond time resolved and nanometer spatially resolved experiment. , 2014, , .		0
69	Spectromicroscopies Ã©lectroniquesÂ: sonder les propriÃ©tÃ©s optiques de nanomatÃ©riaux avec des Ã©lectrons rapides. Photoniques, 2020, , 39-43.	0.0	0
70	Nanoscale Mapping of Light Emission in Nanospade-Based InGaAs Quantum Wells Integrated on Si(100): Implications for Dual Light-Emitting Devices. ACS Applied Nano Materials, 2022, 5, 5508-5515.	2.4	0