

Mauricio Morais de Lima

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,885
citations

394421

19
h-index

175258

52
g-index

62
all docs

62
docs citations

62
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors. <i>Nanoscale Research Letters</i> , 2012, 7, 1.	5.7	1,685
2	Modulation of photonic structures by surface acoustic waves. <i>Reports on Progress in Physics</i> , 2005, 68, 1639-1701.	20.1	169
3	Coefficient of thermal expansion and elastic modulus of thin films. <i>Journal of Applied Physics</i> , 1999, 86, 4936-4942.	2.5	126
4	F-centre luminescence in nanocrystalline CeO ₂ . <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495306.	2.8	73
5	Phonon-Induced Polariton Superlattices. <i>Physical Review Letters</i> , 2006, 97, 045501.	7.8	68
6	Compact Mach-Zehnder acousto-optic modulator. <i>Applied Physics Letters</i> , 2006, 89, 121104.	3.3	65
7	Focusing of surface-acoustic-wave fields on (100) GaAs surfaces. <i>Journal of Applied Physics</i> , 2003, 94, 7848.	2.5	62
8	Valence-band splitting energies in wurtzite InP nanowires: Photoluminescence spectroscopy and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2010, 82, .	3.2	60
9	Polarized and resonant Raman spectroscopy on single InAs nanowires. <i>Physical Review B</i> , 2011, 84, .	3.2	59
10	Optical emission of InAs nanowires. <i>Nanotechnology</i> , 2012, 23, 375704.	2.6	45
11	Surface Acoustic Bloch Oscillations, the Wannier-Stark Ladder, and Landau-Zener Tunneling in a Solid. <i>Physical Review Letters</i> , 2010, 104, 165502.	7.8	37
12	Active photonic crystals based on surface acoustic waves. <i>Applied Physics Letters</i> , 2003, 83, 2997-2999.	3.3	30
13	Optical phonon modes of wurtzite InP. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	30
14	Embedded interdigital transducers for high-frequency surface acoustic waves on GaAs. <i>Journal of Applied Physics</i> , 2004, 96, 3494-3500.	2.5	28
15	Phonon-Induced Optical Superlattice. <i>Physical Review Letters</i> , 2005, 94, 126805.	7.8	28
16	Acousto-optical multiple interference switches. <i>Applied Physics Letters</i> , 2007, 91, 061118.	3.3	22
17	Synchronized photonic modulators driven by surface acoustic waves. <i>Optics Express</i> , 2013, 21, 21669.	3.4	21
18	Defect induced room temperature ferromagnetism in high quality Co-doped ZnO bulk samples. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157772.	5.5	21

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19	Defect spectroscopy of single ZnO microwires. Journal of Applied Physics, 2014, 115, 133101.	2.5	20
20	Optical Absorption Exhibits Pseudo-Direct Band Gap of Wurtzite Gallium Phosphide. Scientific Reports, 2020, 10, 7904.	3.3	18
21	Dynamics of the incorporation of Co into the wurtzite ZnO matrix and its magnetic properties. Journal of Alloys and Compounds, 2015, 637, 407-417.	5.5	16
22	Acoustically driven arrayed waveguide grating. Optics Express, 2015, 23, 21213.	3.4	16
23	Acoustic manipulation of electron-hole pairs in GaAs at room temperature. Applied Physics Letters, 2004, 84, 2569-2571.	3.3	15
24	Semiconductor optical waveguide devices modulated by surface acoustic waves. Journal Physics D: Applied Physics, 2019, 52, 253001.	2.8	13
25	Acoustic spectral hole-burning in a two-level system ensemble. Npj Quantum Information, 2021, 7, .	6.7	12
26	Acousto-optical multiple interference devices. Journal of Applied Physics, 2008, 103, 014505.	2.5	11
27	Structural and luminescence properties of GaN nanowires grown using cobalt phthalocyanine as catalyst. Journal of Applied Physics, 2015, 118, .	2.5	11
28	Light-induced electron spin resonance in amorphous hydrogenated germanium. Applied Physics Letters, 1999, 74, 3797-3799.	3.3	10
29	Hard a-C:H films deposited at high deposition rates. Thin Solid Films, 1999, 343-344, 222-225.	1.8	9
30	Boron doping of hydrogenated amorphous silicon prepared by rf-co-sputtering. Brazilian Journal of Physics, 2002, 32, 379-382.	1.4	8
31	Catalytic oxidation of n-hexane promoted by Ce _{1-x} Cu _x O ₂ catalysts prepared by one-step polymeric precursor method. Materials Chemistry and Physics, 2013, 142, 677-681.	4.0	8
32	Stress and Elastic Constants of Amorphous Germanium Nitrogen Alloys. Physica Status Solidi (B): Basic Research, 1995, 192, 549-554.	1.5	7
33	On the doping mechanism of boron-doped hydrogenated amorphous silicon deposited by rf-co-sputtering. Journal of Non-Crystalline Solids, 2002, 299-302, 605-609.	3.1	7
34	Isotopic Heft on the $B_{1 1}$ Silent Mode in Ultra-Narrow Gallium Nitride Nanowires. Nano Letters, 2018, 18, 5091-5097.	9.1	7
35	Optical properties of nitride nanostructures. Annalen Der Physik, 2011, 523, 51-61.	2.4	6
36	Tunable coupled surface acoustic cavities. Applied Physics Letters, 2012, 100, .	3.3	6

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37	Far-infrared spectroscopic study of CeO ₂ nanocrystals. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	6
38	Thermomechanical properties of a-Si:H and a-Ge:H. Thin Solid Films, 2001, 398-399, 549-552.	1.8	5
39	Recombination mechanism of excess carriers in hydrogenated amorphous germanium. Journal of Non-Crystalline Solids, 2002, 299-302, 571-574.	3.1	5
40	Modulation of photonic crystals by surface acoustic waves. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 809-813.	2.7	5
41	Ce _{1-x} CoxO ₂ Nanorods Prepared by Microwave-Assisted Hydrothermal Method: Novel Catalysts for Removal of Volatile Organic Compounds. Science of Advanced Materials, 2015, 7, 1406-1414.	0.7	5
42	Optically excited paramagnetic centers in hydrogenated amorphous germanium. Journal of Non-Crystalline Solids, 2000, 266-269, 717-720.	3.1	4
43	The Staebler-Wronski effect in amorphous germanium. Journal of Non-Crystalline Solids, 2004, 338-340, 374-377.	3.1	4
44	Intense acoustic beams for photonic modulation. , 2004, , .		4
45	Acousto-electric single-photon detector. , 2007, , .		3
46	Raman signal reveals the rhombohedral crystallographic structure in ultra-thin layers of bismuth thermally evaporated on amorphous substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115240.	3.5	3
47	Influence of krypton atoms on the structure of hydrogenated amorphous carbon deposited by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2010, 108, 123525.	2.5	2
48	Spatial carrier distribution in InP/GaAs type II quantum dots and quantum posts. Nanotechnology, 2011, 22, 065703.	2.6	2
49	Carrier Transport in GaAs Nanowires Using Surface Acoustic Waves. Materials Research Society Symposia Proceedings, 2012, 1408, 43.	0.1	2
50	Acoustic phonons for coherent photon control in semiconductor structures. Journal of Physics: Conference Series, 2007, 92, 012006.	0.4	1
51	E ₁ Gap of Wurtzite InAs Single Nanowires Measured by Means of Resonant Raman Spectroscopy. , 2011, , .		1
52	Photonic Mach-Zehnder modulators driven by surface acoustic waves in AlGaAs technology. Proceedings of SPIE, 2014, , .	0.8	1
53	Fermi energy dependence of the optical emission in core/shell InAs nanowire homostructures. Nanotechnology, 2017, 28, 295702.	2.6	1
54	Thermally Tunable Surface Acoustic Wave Cavities. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 850-854.	3.0	1

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55	Compact acousto-optic multimode interference device in (Al,Ga)As. Optics Express, 2020, 28, 35833.	3.4	1
56	Acoustically tunable photonic band gap structures. , 2005, , .		0
57	Manipulation of photons and electrons in photonic structures using surface acoustic waves. AIP Conference Proceedings, 2005, , .	0.4	0
58	Acoustically tunable photonic structures based on microcavity polaritons. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 496-499.	2.7	0
59	Modulation of cavity-polaritons by surface acoustic waves. , 2006, , .		0
60	Coherent modulation of microcavity-polaritons by acoustic phonons. AIP Conference Proceedings, 2007, , .	0.4	0