

Mauricio Morais de Lima

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7185224/publications.pdf>

Version: 2024-02-01

60
papers

2,885
citations

448610

19
h-index

198040

52
g-index

62
all docs

62
docs citations

62
times ranked

5854
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect induced room temperature ferromagnetism in high quality Co-doped ZnO bulk samples. Journal of Alloys and Compounds, 2021, 859, 157772.	2.8	21
2	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.	1.7	3
3	Acoustic spectral hole-burning in a two-level system ensemble. Npj Quantum Information, 2021, 7, .	2.8	12
4	Thermally Tunable Surface Acoustic Wave Cavities. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 850-854.	1.7	1
5	Optical Absorption Exhibits Pseudo-Direct Band Gap of Wurtzite Gallium Phosphide. Scientific Reports, 2020, 10, 7904.	1.6	18
6	Compact acousto-optic multimode interference device in (Al,Ga)As. Optics Express, 2020, 28, 35833.	1.7	1
7	Semiconductor optical waveguide devices modulated by surface acoustic waves. Journal Physics D: Applied Physics, 2019, 52, 253001.	1.3	13
8	Isotopic Heft on the Γ_1 Silent Mode in Ultra-Narrow Gallium Nitride Nanowires. Nano Letters, 2018, 18, 5091-5097.	4.5	7
9	Fermi energy dependence of the optical emission in core/shell InAs nanowire homostructures. Nanotechnology, 2017, 28, 295702.	1.3	1
10	Structural and luminescence properties of GaN nanowires grown using cobalt phthalocyanine as catalyst. Journal of Applied Physics, 2015, 118, .	1.1	11
11	Far-infrared spectroscopic study of CeO ₂ nanocrystals. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	6
12	Dynamics of the incorporation of Co into the wurtzite ZnO matrix and its magnetic properties. Journal of Alloys and Compounds, 2015, 637, 407-417.	2.8	16
13	Acoustically driven arrayed waveguide grating. Optics Express, 2015, 23, 21213.	1.7	16
14	Ce _{1-x} Co _x O ₂ Nanorods Prepared by Microwave-Assisted Hydrothermal Method: Novel Catalysts for Removal of Volatile Organic Compounds. Science of Advanced Materials, 2015, 7, 1406-1414.	0.1	5
15	Defect spectroscopy of single ZnO microwires. Journal of Applied Physics, 2014, 115, 133101.	1.1	20
16	Photonic Mach-Zehnder modulators driven by surface acoustic waves in AlGaAs technology. Proceedings of SPIE, 2014, , .	0.8	1
17	F-centre luminescence in nanocrystalline CeO ₂ . Journal Physics D: Applied Physics, 2013, 46, 495306.	1.3	73
18	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.	2.0	8

#	ARTICLE	IF	CITATIONS
19	Synchronized photonic modulators driven by surface acoustic waves. <i>Optics Express</i> , 2013, 21, 21669.	1.7	21
20	Optical phonon modes of wurtzite InP. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	30
21	Carrier Transport in GaAs Nanowires Using Surface Acoustic Waves. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1408, 43.	0.1	2
22	Optical emission of InAs nanowires. <i>Nanotechnology</i> , 2012, 23, 375704.	1.3	45
23	Tunable coupled surface acoustic cavities. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	6
24	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors. <i>Nanoscale Research Letters</i> , 2012, 7, 1.	3.1	1,685
25	E _g Gap of Wurtzite InAs Single Nanowires Measured by Means of Resonant Raman Spectroscopy. , 2011, , .		1
26	Optical properties of nitride nanostructures. <i>Annalen Der Physik</i> , 2011, 523, 51-61.	0.9	6
27	Spatial carrier distribution in InP/GaAs type II quantum dots and quantum posts. <i>Nanotechnology</i> , 2011, 22, 065703.	1.3	2
28	Polarized and resonant Raman spectroscopy on single InAs nanowires. <i>Physical Review B</i> , 2011, 84, .	1.1	59
29	Surface Acoustic Bloch Oscillations, the Wannier-Stark Ladder, and Landau-Zener Tunneling in a Solid. <i>Physical Review Letters</i> , 2010, 104, 165502.	2.9	37
30	Valence-band splitting energies in wurtzite InP nanowires: Photoluminescence spectroscopy and ab initio calculations. <i>Physical Review B</i> , 2010, 82, .	1.1	60
31	Influence of krypton atoms on the structure of hydrogenated amorphous carbon deposited by plasma enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2010, 108, 123525.	1.1	2
32	Acousto-optical multiple interference devices. <i>Journal of Applied Physics</i> , 2008, 103, 014505.	1.1	11
33	Coherent modulation of microcavity-polaritons by acoustic phonons. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
34	Acousto-electric single-photon detector. , 2007, , .		3
35	Acoustic phonons for coherent photon control in semiconductor structures. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012006.	0.3	1
36	Acousto-optical multiple interference switches. <i>Applied Physics Letters</i> , 2007, 91, 061118.	1.5	22

#	ARTICLE	IF	CITATIONS
37	Acoustically tunable photonic structures based on microcavity polaritons. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 496-499.	1.3	0
38	Phonon-Induced Polariton Superlattices. Physical Review Letters, 2006, 97, 045501.	2.9	68
39	Compact Mach-Zehnder acousto-optic modulator. Applied Physics Letters, 2006, 89, 121104.	1.5	65
40	Modulation of cavity-polaritons by surface acoustic waves. , 2006, , .		0
41	Acoustically tunable photonic band gap structures. , 2005, , .		0
42	Manipulation of photons and electrons in photonic structures using surface acoustic waves. AIP Conference Proceedings, 2005, , .	0.3	0
43	Phonon-Induced Optical Superlattice. Physical Review Letters, 2005, 94, 126805.	2.9	28
44	Modulation of photonic structures by surface acoustic waves. Reports on Progress in Physics, 2005, 68, 1639-1701.	8.1	169
45	Embedded interdigital transducers for high-frequency surface acoustic waves on GaAs. Journal of Applied Physics, 2004, 96, 3494-3500.	1.1	28
46	Acoustic manipulation of electron-hole pairs in GaAs at room temperature. Applied Physics Letters, 2004, 84, 2569-2571.	1.5	15
47	Modulation of photonic crystals by surface acoustic waves. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 809-813.	1.3	5
48	The Staebler-Wronski effect in amorphous germanium. Journal of Non-Crystalline Solids, 2004, 338-340, 374-377.	1.5	4
49	Intense acoustic beams for photonic modulation. , 2004, , .		4
50	Active photonic crystals based on surface acoustic waves. Applied Physics Letters, 2003, 83, 2997-2999.	1.5	30
51	Focusing of surface-acoustic-wave fields on (100) GaAs surfaces. Journal of Applied Physics, 2003, 94, 7848.	1.1	62
52	Recombination mechanism of excess carriers in hydrogenated amorphous germanium. Journal of Non-Crystalline Solids, 2002, 299-302, 571-574.	1.5	5
53	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.	1.5	7
54	Boron doping of hydrogenated amorphous silicon prepared by rf-co-sputtering. Brazilian Journal of Physics, 2002, 32, 379-382.	0.7	8

#	ARTICLE	IF	CITATIONS
55	Thermomechanical properties of a-Si:H and a-Ge:H. Thin Solid Films, 2001, 398-399, 549-552.	0.8	5
56	Optically excited paramagnetic centers in hydrogenated amorphous germanium. Journal of Non-Crystalline Solids, 2000, 266-269, 717-720.	1.5	4
57	Light-induced electron spin resonance in amorphous hydrogenated germanium. Applied Physics Letters, 1999, 74, 3797-3799.	1.5	10
58	Hard a-C:H films deposited at high deposition rates. Thin Solid Films, 1999, 343-344, 222-225.	0.8	9
59	Coefficient of thermal expansion and elastic modulus of thin films. Journal of Applied Physics, 1999, 86, 4936-4942.	1.1	126
60	Stress and Elastic Constants of Amorphous Germanium Nitrogen Alloys. Physica Status Solidi (B): Basic Research, 1995, 192, 549-554.	0.7	7