Adenilson J Chiquito

List of Publications by Year
in descending order

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111 papers	1,432 citations	430874 18 h-index	395702 33 g-index
111 all docs	111 docs citations	111 times ranked	1831 citing authors

#	Article	IF	Citations
1	A label-free Acetone based SnO2 nanowire network sensor at room temperature. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	3
2	Effect of hydrothermal temperature on the antibacterial and photocatalytic activity of WO3 decorated with silver nanoparticles. Journal of Sol-Gel Science and Technology, 2021, 97, 228-244.	2.4	8
3	Synthesis, characterization, photocatalytic, and antimicrobial activity of ZrO2 nanoparticles and Ag@ZrO2 nanocomposite prepared by the advanced oxidative process/hydrothermal route. Journal of Sol-Gel Science and Technology, 2021, 98, 113-126.	2.4	15
4	A simple band model for ultraviolet induced ambipolarity in single SnO2 nanowire devices. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114607.	2.7	3
5	A Study of Visible-Blind Properties of a SnO2â€™s Nanowires Network Photodetector. Engineering Proceedings, 2021, 6, .	0.4	0
6	Active-electrode biosensor of SnO₂ nanowire for cyclodextrin detection from microbial enzyme. Nanotechnology, 2020, 31, 165501.	2.6	5
7	Reliable Tin dioxide based nanowire networks as ultraviolet solar radiation sensors. Sensors and Actuators A: Physical, 2020, 302, 111825.	4.1	11
8	Influence of the metastable state (V++) on the electronic properties of SnO2 nanowires under the influence of light. Journal of Applied Physics, 2020, 128, .	2.5	8
9	A New Possibility for Fermentation Monitoring by Electrical Driven Sensing of Ultraviolet Light and Glucose. Biosensors, 2020, 10, 97.	4.7	2
10	Metallic behavior in STO/LAO heterostructures with non-uniformly atomic interfaces. Materials Today Communications, 2020, 24, 101339.	1.9	1
11	Influence of Synthesis Time on the Morphology and Properties of CeO₂ Nanoparticles: An Experimentalâ€“Theoretical Study. Crystal Growth and Design, 2020, 20, 5031-5042.	3.0	22
12	One-step controllable synthesis of three-dimensional WO₃ hierarchical architectures with different morphologies decorated with silver nanoparticles: enhancing the photocatalytic activity. RSC Advances, 2020, 10, 6625-6639.	3.6	18
13	Synthesis and characterization of ZrO2@SiO2 core-shell nanostructure as nanocatalyst: Application for environmental remediation of rhodamine B dye aqueous solution. Materials Chemistry and Physics, 2019, 233, 1-8.	4.0	28
14	Investigation of defects dependence of local piezoelectric response on Fe, La-modified (Pb,Sr)TiO3 thin films: A piezoresponse force microscopy study. Materials Chemistry and Physics, 2018, 214, 180-184.	4.0	4
15	Sb doping of VLS synthesized SnO2 nanowires probed by Raman and XPS spectroscopy. Chemical Physics Letters, 2018, 695, 125-130.	2.6	97
16	Effect of inhomogeneous Schottky barrier height of SnO2nanowires device. Semiconductor Science and Technology, 2018, 33, 055003.	2.0	17
17	Silver-controlled evolution of morphological, structural, and optical properties of three-dimensional hierarchical WO 3 structures synthesized from hydrothermal method. Journal of Alloys and Compounds, 2018, 736, 143-151.	5.5	24
18	Computational Chemistry Meets Experiments for Explaining the Geometry, Electronic Structure, and Optical Properties of Ca₁₀V₆O₂₅. Inorganic Chemistry, 2018, 57, 15489-15499.	4.0	18

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19	Direct preparation of standard functional interfaces in oxide heterostructures for 2DEG analysis through beam-induced platinum contacts. Applied Physics Letters, 2018, 113, .	3.3	2
20	Photocurrent enhancement and magnetoresistance in indium phosphide single nanowire by zinc doping. Journal Physics D: Applied Physics, 2018, 51, 255106.	2.8	2
21	Investigation of trapping levels in p-type Zn3P2nanowires using transport and optical properties. Applied Physics Letters, 2018, 112, 193103.	3.3	12
22	Annealing temperature dependence of local piezoelectric response of (Pb,Ca)TiO3 ferroelectric thin films. Ceramics International, 2017, 43, 5047-5052.	4.8	2
23	Combined theoretical and nanoscale experimental study of Pb(Ca,Ba)TiO3, Pb(Sr,Ba)TiO3, and Pb(Sr,Ca)TiO3 complex perovskite structures: An investigation of the ferroelectric and electronic properties. Journal of Alloys and Compounds, 2017, 702, 327-337.	5.5	4
24	Nanoscale investigation of ferroelectric and piezoelectric properties in (Pb,Ca)TiO3 thin films grown on LaNiO3/LaAlO3(1 0 0) and Pt/Si(1 1 1) using piezoresponse force microscopy. Materials Letters, 2017, 196, 64-68.	2.6	4
25	Direct evidence of traps controlling the carriers transport in SnO₂nanobelts. Journal of Semiconductors, 2017, 38, 122001.	3.7	4
26	Metal to insulator transition in Sb doped SnO2 monocrystalline nanowires thin films. Journal of Applied Physics, 2016, 120, .	2.5	21
27	Optical and transport properties correlation driven by amorphous/crystalline disorder in InP nanowires. Journal of Physics Condensed Matter, 2016, 28, 475303.	1.8	1
28	Electrical properties of SnO₂:Sb ultrathin films prepared by colloidal deposition process. Journal of Materials Research, 2016, 31, 148-153.	2.6	2
29	The interplay between Arrhenius and hopping conduction mechanisms in a percolating nanowire network. Journal Physics D: Applied Physics, 2016, 49, 315303.	2.8	8
30	Structural, optical, magnetic, ferroelectric, and piezoelectric properties of (Pb,Ba)(Ti,Fe)O₃ perovskites: a macroscopic and nanoscale properties approach. Journal of Materials Chemistry C, 2016, 4, 9331-9342.	5.5	10
31	Schottky contacts in germanium nanowire network devices synthesized from nickel seeds. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 84, 537-542.	2.7	0
32	Germanium nanowires grown using different catalyst metals. Materials Chemistry and Physics, 2016, 183, 145-151.	4.0	8
33	Understanding the fundamental electrical and photoelectrochemical behavior of a hematite photoanode. Physical Chemistry Chemical Physics, 2016, 18, 21780-21788.	2.8	22
34	Effect of Fe-doping on the structural, microstructural, optical, and ferroeletric properties of Pb1/2Sr1/2Ti1â^'xFexO3 oxide prepared by spin coating technique. Materials Letters, 2015, 138, 179-183.	2.6	14
35	Fluorine doped SnO2(FTO) nanobelts: some data on electronic parameters. Journal Physics D: Applied Physics, 2014, 47, 045301.	2.8	11
36	Structural, dielectric, ferroelectric and optical properties of PBCT, PBST and PCST complex thin films on LaNiO3 metallic conductive oxide layer coated Si substrates by the CSD technique. Journal of Alloys and Compounds, 2014, 609, 33-39.	5.5	6

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37	Influence of a co-substituted A-site on structural characteristics and ferroelectricity of (Pb, Ba,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Science and Technology, 2014, 69, 605-616.	2.4	8
38	Weak localization and electronâ€“electron scattering in fluorine-doped SnO2 random nanobelt thin films. Journal of Physics and Chemistry of Solids, 2014, 75, 583-587.	4.0	9
39	Structural, ferroelectric, and optical properties of Pb0.60Ca0.20Sr0.20TiO3, Pb0.50Ca0.25Sr0.25TiO3 and Pb0.40Ca0.30Sr0.30TiO3 thin films prepared by the chemical solution deposition technique. Ceramics International, 2014, 40, 13363-13370.	4.8	6
40	Investigation of the structural, optical and dielectric properties of highly (100)-oriented (Pb0.60Ca0.20Sr0.20)TiO3 thin films on LaNiO3 bottom electrode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 123-128.	3.5	3
41	Ferroelectric and structural instability of (Pb,Ca)TiO3 thin films prepared in an oxygen atmosphere and deposited on LSCO thin films which act as a buffer layer. Ceramics International, 2014, 40, 4085-4093.	4.8	6
42	Structural, microstructural, optical and electrical properties of (Pb,Ba,Sr)TiO3 films growth on conductive LaNiO3-coated LaAO3(100) and Pt/Ti/SiO2/Si substrates. Materials Letters, 2014, 121, 93-96.	2.6	7
43	Transport properties of polycrystalline boron doped diamond. Applied Surface Science, 2014, 311, 5-8.	6.1	8
44	Grazing Angle Photoluminescence of Porous Alumina as an Analytical Transducer for Gaseous Ethanol Detection. Journal of Nanoscience and Nanotechnology, 2014, 14, 6653-6657.	0.9	4
45	Structural and electrical properties of LaNiO3 thin films grown on (100) and (001) oriented SrLaAlO4 substrates by chemical solution deposition method. Ceramics International, 2013, 39, 8025-8034.	4.8	14
46	Disorder induced interface states and their influence on the Al/Ge nanowires Schottky devices. Journal of Applied Physics, 2013, 114, .	2.5	12
47	Surface States Influence in Al Schottky Barrier of Ge Nanowires. Materials Research Society Symposia Proceedings, 2013, 1510, 1.	0.1	1
48	Growth and electrical characterization of semiconducting Ge nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1776-1779.	2.7	11
49	Back-to-back Schottky diodes: the generalization of the diode theory in analysis and extraction of electrical parameters of nanodevices. Journal of Physics Condensed Matter, 2012, 24, 225303.	1.8	122
50	Detection of oxygen vacancy defect states in oxide nanobelts by using thermally stimulated current spectroscopy. Semiconductor Science and Technology, 2012, 27, 065021.	2.0	4
51	The study of electron scattering mechanisms in single crystal oxide nanowires. Journal Physics D: Applied Physics, 2011, 44, 215405.	2.8	6
52	Measuring the mobility of single crystalline wires and its dependence on temperature and carrier density. Journal of Physics Condensed Matter, 2011, 23, 205803.	1.8	6
53	Gaussian distribution of Schottky barrier heights on SnO2 nanowires. Materials Research Society Symposia Proceedings, 2011, 1406, .	0.1	1
54	Investigation in SrTiO3-CaTiO3-PbTiO3 ternary thin films by dielectric proprieties and Raman spectroscopy. Journal of Sol-Gel Science and Technology, 2010, 55, 151-157.	2.4	1

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55	Characterization of dense lead lanthanum titanate ceramics prepared from powders synthesized by the oxidant peroxo method. Materials Chemistry and Physics, 2010, 124, 1051-1056.	4.0	12
56	Sn3O4 single crystal nanobelts grown by carbothermal reduction process. Journal of Crystal Growth, 2010, 312, 2881-2886.	1.5	18
57	Electrical properties of diamond films prepared from carbon disulfide and ethanol in hydrogen. Vacuum, 2010, 85, 180-183.	3.5	3
58	Electrical Properties of Highly Conducting SnO₂:Sb Nanocrystals Synthesized using a Nonaqueous Solâ€“Gel Method. Journal of the American Ceramic Society, 2010, 93, 3862-3866.	3.8	24
59	Weak localization and quantum interference in Sn doped In[sub 2]O[sub 3] nanowires. AIP Conference Proceedings, 2010, , .	0.4	1
60	Structural characterization of indium oxide nanostructures: a Raman analysis. Journal Physics D: Applied Physics, 2010, 43, 045401.	2.8	148
61	Reply to â€˜Comment on â€œElectronâ€“phonon scattering in Sn-doped In2O3FET nanowires probed by temperature-dependent measurementsâ€â€™. Nanotechnology, 2009, 20, 468002.	2.6	0
62	Electronâ€“phonon scattering in Sn-doped In2O3FET nanowires probed by temperature-dependent measurements. Nanotechnology, 2009, 20, 245706.	2.6	9
63	Magnetoresistance in Sn-Doped In2O3Nanowires. Nanoscale Research Letters, 2009, 4, 921-5.	5.7	15
64	Effect of strontium addition on ferroelectric phase transition ofÂPZTÂthin films prepared by chemical route. Applied Physics A: Materials Science and Processing, 2009, 95, 693-698.	2.3	4
65	Effects of strontium and calcium simultaneous substitution on electrical and structural properties of Pb1â^'xâ^'y Ca x Sr y TiO3 thin films. Applied Physics A: Materials Science and Processing, 2009, 96, 731-740.	2.3	3
66	Development of individual semiconductor nanowire for bioelectrochemical device at low overpotential conditions. Electrochemistry Communications, 2009, 11, 1744-1747.	4.7	12
67	Electron transport properties of undoped SnO2 monocrystals. Journal of Applied Physics, 2009, 105, 023708.	2.5	29
68	Synthesis and Electrical Characterization of Tin Oxide Nanostructures. Materials Research Society Symposia Proceedings, 2009, 1178, 74.	0.1	0
69	Electronâ€“electron scattering in Sn doped In2O3 nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 449-451.	2.7	8
70	Compressibility of electron liquid in the quantized Hall phase of GaAs/AlGaAs multi-layers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2682-2685.	2.7	3
71	Leakage current, ferroelectric and structural properties in Pb1â^'xBaxTiO3 thin films prepared by chemical route. Journal of Physics and Chemistry of Solids, 2008, 69, 2796-2803.	4.0	4
72	Structural and morphological characterization of Pb1â^'xBaxTiO3 thin films prepared by chemical route: An investigation of phase transition. Materials Chemistry and Physics, 2008, 108, 312-318.	4.0	5

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73	Pressure-induced electrical and structural anomalies in Pb_{1â^'x}Ca_xTiO₃thin films grown at various oxygen pressures by chemical solution route. Journal Physics D: Applied Physics, 2008, 41, 115402.	2.8	2
74	INHOMOGENEITY OF ELECTRON LIQUID AND EFFECTS OF INTERLAYER COUPLING IN GaAs/AlGaAs SUPERLATTICES IN THE REGIME OF THE QUANTUM HALL EFFECT. International Journal of Modern Physics B, 2007, 21, 1409-1413.	2.0	1
75	Activation energies in diamond films evaluated using admittance spectroscopy and resistivity measurements. Journal of Applied Physics, 2007, 101, 033714.	2.5	7
76	Electrical characterization of SnO2:Sb ultrathin films obtained by controlled thickness deposition. Journal of Applied Physics, 2007, 102, .	2.5	12
77	Electron Dephasing and Weak Localization in Sn Doped In2O3Nanowires. Nano Letters, 2007, 7, 1439-1443.	9.1	43
78	Temperature sensors based on synthetic diamond films. Diamond and Related Materials, 2007, 16, 1652-1655.	3.9	3
79	ExcitaÃ§Ã£o dos modos normais de um sistema usando um motor desbalanceado. Revista Brasileira De Ensino De Fisica, 2007, 29, 5-10.	0.2	1
80	Temperature dependence of electron properties of Sn doped nanobelts. Physica B: Condensed Matter, 2007, 400, 243-247.	2.7	3
81	Deposition of Controlled Thickness Ultrathin SnO₂:Sb Films by Spin-Coating. Journal of Nanoscience and Nanotechnology, 2006, 6, 3849-3853.	0.9	8
82	The temperature dependence of electrical and optical properties in InAs/GaAs and GaAs/InAs/AlAs self-assembled quantum dots. Semiconductor Science and Technology, 2006, 21, 912-917.	2.0	3
83	Temperature dependence of the electron distribution in a GaAs matrix with embedded InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 25, 613-618.	2.7	5
84	Carrier confinement in disordered GaAs/AlAs superlattices probed by capacitanceâ€“voltage experiments. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 30, 69-73.	2.7	0
85	A comparative study of p-type diamond films using Raman and transport measurements. Thin Solid Films, 2005, 476, 246-251.	1.8	5
86	Structural and ferroelectric properties of Pb1-xSrxTiO3 thin films. Applied Physics A: Materials Science and Processing, 2005, 80, 875-880.	2.3	30
87	Absence of relaxor-like ferroelectric phase transition in (Pb,Sr)TiO3 thin films. Applied Physics A: Materials Science and Processing, 2005, 80, 813-817.	2.3	15
88	Effects of annealing on electrical and optical properties of a multilayer InAs/GaAs quantum dots system. Materials Research, 2004, 7, 459-465.	1.3	4
89	Controlling the optical properties of disorderedGaAs/AlxGa1â^'xAssuperlattices. Physical Review B, 2004, 69, .	3.2	4
90	Investigation of phase transition in ferroelectric Pb0.70Sr0.30TiO3 thin films. Journal of Applied Physics, 2004, 96, 1192-1196.	2.5	36

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91	Characterization of BaTi1â‹'xZrxO3 thin films obtained by a soft chemical spin-coating technique. Journal of Applied Physics, 2004, 96, 4386-4391.	2.5	63
92	Ferroelectric phase transition in Pb0.60Sr0.40TiO3 thin films. Materials Chemistry and Physics, 2004, 87, 353-356.	4.0	5
93	A Raman and dielectric study of a diffuse phase transition in (Pb1-xCax)TiO3 thin films. Applied Physics A: Materials Science and Processing, 2004, 78, 349-354.	2.3	12
94	Super-redes semicondutoras: um laboratÃ³rio de MecÃ¢nica QuÃ¢ntica. Revista Brasileira De Ensino De Fisica, 2004, 26, 315-322.	0.2	0
95	CÃ©lulas solares "caseiras". Revista Brasileira De Ensino De Fisica, 2004, 26, .	0.0	0
96	Electrical conduction mechanism and phase transition studies using dielectric properties and Raman spectroscopy in ferroelectric Pb0.76Ca0.24TiO3 thin films. Journal of Applied Physics, 2003, 94, 7256-7260.	2.5	18
97	Parallel conductivity of random GaAs/AlGaAs superlattices in regime of controlled vertical disorder. Journal of Applied Physics, 2002, 92, 3830-3834.	2.5	18
98	Influence of Ca concentration on the electric, morphological, and structural properties of (Pb,Ca)TiO[sub 3] thin films. Journal of Applied Physics, 2002, 91, 6650.	2.5	57
99	Evidence of formation of an XLminiband in short-period type-II GaAs/AlAs superlattices. Journal of Physics Condensed Matter, 2002, 14, 9601-9605.	1.8	0
100	Capacitance-voltage characteristics of InAs dots: a simple model. Brazilian Journal of Physics, 2002, 32, 784-789.	1.4	2
101	Influence of annealing on the optical and electrical properties of multilayered InAs/GaAs quantum dots. Brazilian Journal of Physics, 2002, 32, 287-289.	1.4	0
102	Carrier confinement in an ultrathin barrier GaAs/AlAs superlattice probed by capacitanceâ€"voltage measurements. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 36-42.	2.7	9
103	Effects of Annealing on Electrical Coupling in a Multilayer InAs/GaAs Quantum Dots System. Japanese Journal of Applied Physics, 2001, 40, 1882-1884.	1.5	1
104	Investigation of the InAs/GaAs self-assembled quantum dots using the relationship between the capacitance and the density of states. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 321-325.	2.7	1
105	Thermostabilization of Electrical Properties of InAs/GaAs Self-Assembled Quantum Dots Embedded in GaAs/AlAs Superlattices. Japanese Journal of Applied Physics, 2001, 40, 2006-2009.	1.5	2
106	An alternative chemical route for synthesis of SrBi₂Ta₂O₉ thin films. Journal of Materials Research, 2000, 15, 2091-2095.	2.6	21
107	Plasma response of electrons in GaAs/AlAs superlattices in the presence of strong localization. Journal of Applied Physics, 2000, 88, 3093-3095.	2.5	2
108	Capacitance-voltage profile in a structure with negative differential capacitance caused by the presence of InAs/GaAs self-assembled quantum dots. Physical Review B, 2000, 61, 5499-5504.	3.2	48

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109	Effect of photogenerated holes on capacitance-voltage measurements in InAs/GaAs self-assembled quantum dots. Physical Review B, 2000, 61, 4481-4484.	3.2	10
110	Capacitance spectroscopy of InAs self-assembled quantum dots embedded in a GaAs/AlAs superlattice. Journal of Applied Physics, 2000, 88, 1987-1991.	2.5	20
111	One-dimensional character of miniband transport in doped GaAs/AlAs superlattices. Physical Review B, 1997, 56, 3892-3896.	3.2	17