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	Structural characterization of indium oxide nanostructures: a Raman analysis. Journal Physics D: Applied Physics, 2010, 43, 045401.	2.8	148
2	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
3	Sb doping of VLS synthesized SnO2 nanowires probed by Raman and XPS spectroscopy. Chemical Physics Letters, 2018, 695, 125-130.	2.6	97
4	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
5	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
6	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
7	Electron Dephasing and Weak Localization in Sn Doped In2O3Nanowires. Nano Letters, 2007, 7, 1439-1443.	9.1	43
8	Investigation of phase transition in ferroelectric Pb0.70Sr0.30TiO3 thin films. Journal of Applied Physics, 2004, 96, 1192-1196.	2.5	36
9	Structural and ferroelectric properties of Pb1-xSrxTiO3 thin films. Applied Physics A: Materials Science and Processing, 2005, 80, 875-880.	2.3	30
10	Electron transport properties of undoped SnO2 monocrystals. Journal of Applied Physics, 2009, 105, 023708.	2.5	29
11	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
12	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
13	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
14	Understanding the fundamental electrical and photoelectrochemical behavior of a hematite photoanode. Physical Chemistry Chemical Physics, 2016, 18, 21780-21788.	2.8	22
15	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
16	An alternative chemical route for synthesis of SrBi₂Ta₂O₉ thin films. Journal of Materials Research, 2000, 15, 2091-2095.	2.6	21
17	Metal to insulator transition in Sb doped SnO2 monocrystalline nanowires thin films. Journal of Applied Physics, 2016, 120, .	2.5	21
18	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

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19	Parallel conductivity of random GaAs/AlGaAs superlattices in regime of controlled vertical disorder. Journal of Applied Physics, 2002, 92, 3830-3834.	2.5	18
20	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
21	Sn3O4 single crystal nanobelts grown by carbothermal reduction process. Journal of Crystal Growth, 2010, 312, 2881-2886.	1.5	18
22	Computational Chemistry Meets Experiments for Explaining the Geometry, Electronic Structure, and Optical Properties of Ca₁₀V₆O₂₅. Inorganic Chemistry, 2018, 57, 15489-15499.	4.0	18
23	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
24	One-dimensional character of miniband transport in doped GaAs/AlAs superlattices. Physical Review B, 1997, 56, 3892-3896.	3.2	17
25	Effect of inhomogeneous Schottky barrier height of SnO2nanowires device. Semiconductor Science and Technology, 2018, 33, 055003.	2.0	17
26	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
27	Magnetoresistance in Sn-Doped In2O3Nanowires. Nanoscale Research Letters, 2009, 4, 921-5.	5.7	15
28	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
29	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
30	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
31	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
32	Electrical characterization of SnO2:Sb ultrathin films obtained by controlled thickness deposition. Journal of Applied Physics, 2007, 102, .	2.5	12
33	Development of individual semiconductor nanowire for bioelectrochemical device at low overpotential conditions. Electrochemistry Communications, 2009, 11, 1744-1747.	4.7	12
34	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
35	Disorder induced interface states and their influence on the Al/Ge nanowires Schottky devices. Journal of Applied Physics, 2013, 114, .	2.5	12
36	Investigation of trapping levels in p-type Zn3P2nanowires using transport and optical properties. Applied Physics Letters, 2018, 112, 193103.	3.3	12

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37	Growth and electrical characterization of semiconducting Ge nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1776-1779.	2.7	11
38	Fluorine doped SnO2(FTO) nanobelts: some data on electronic parameters. Journal Physics D: Applied Physics, 2014, 47, 045301.	2.8	11
39	Reliable Tin dioxide based nanowire networks as ultraviolet solar radiation sensors. Sensors and Actuators A: Physical, 2020, 302, 111825.	4.1	11
40	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
41	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
42	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
43	Electronâ€“phonon scattering in Sn-doped In2O3FET nanowires probed by temperature-dependent measurements. Nanotechnology, 2009, 20, 245706.	2.6	9
44	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
45	Deposition of Controlled Thickness Ultrathin SnO₂:Sb Films by Spin-Coating. Journal of Nanoscience and Nanotechnology, 2006, 6, 3849-3853.	0.9	8
46	Electronâ€“electron scattering in Sn doped In2O3 nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 449-451.	2.7	8
47	Influence of a co-substituted A-site on structural characteristics and ferroelectricity of (Pb, Ba,) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Science and Technology, 2014, 69, 605-616.	2.4	8
48	Transport properties of polycrystalline boron doped diamond. Applied Surface Science, 2014, 311, 5-8.	6.1	8
49	The interplay between Arrhenius and hopping conduction mechanisms in a percolating nanowire network. Journal Physics D: Applied Physics, 2016, 49, 315303.	2.8	8
50	Germanium nanowires grown using different catalyst metals. Materials Chemistry and Physics, 2016, 183, 145-151.	4.0	8
51	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
52	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
53	Activation energies in diamond films evaluated using admittance spectroscopy and resistivity measurements. Journal of Applied Physics, 2007, 101, 033714.	2.5	7
54	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

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55	The study of electron scattering mechanisms in single crystal oxide nanowires. Journal Physics D: Applied Physics, 2011, 44, 215405.	2.8	6
56	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
57	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
58	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
59	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
60	Ferroelectric phase transition in Pb0.60Sr0.40TiO3 thin films. Materials Chemistry and Physics, 2004, 87, 353-356.	4.0	5
61	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
62	A comparative study of p-type diamond films using Raman and transport measurements. Thin Solid Films, 2005, 476, 246-251.	1.8	5
63	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
64	Active-electrode biosensor of SnO₂ nanowire for cyclodextrin detection from microbial enzyme. Nanotechnology, 2020, 31, 165501.	2.6	5
65	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
66	Controlling the optical properties of disorderedGaAs/AlxGa1â^'xAssuperlattices. Physical Review B, 2004, 69, .	3.2	4
67	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
68	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
69	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
70	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
71	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
72	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

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73	Direct evidence of traps controlling the carriers transport in SnO₂nanobelts. Journal of Semiconductors, 2017, 38, 122001.	3.7	4
74	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
75	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
76	Temperature sensors based on synthetic diamond films. Diamond and Related Materials, 2007, 16, 1652-1655.	3.9	3
77	Temperature dependence of electron properties of Sn doped nanobelts. Physica B: Condensed Matter, 2007, 400, 243-247.	2.7	3
78	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
79	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
80	Electrical properties of diamond films prepared from carbon disulfide and ethanol in hydrogen. Vacuum, 2010, 85, 180-183.	3.5	3
81	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
82	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
83	A label-free Acetone based SnO2 nanowire network sensor at room temperature. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	3
84	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
85	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
86	Capacitance-voltage characteristics of InAs dots: a simple model. Brazilian Journal of Physics, 2002, 32, 784-789.	1.4	2
87	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
88	Electrical properties of SnO₂:Sb ultrathin films prepared by colloidal deposition process. Journal of Materials Research, 2016, 31, 148-153.	2.6	2
89	Annealing temperature dependence of local piezoelectric response of (Pb,Ca)TiO3 ferroelectric thin films. Ceramics International, 2017, 43, 5047-5052.	4.8	2
90	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

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91	Photocurrent enhancement and magnetoresistance in indium phosphide single nanowire by zinc doping. Journal Physics D: Applied Physics, 2018, 51, 255106.	2.8	2
92	A New Possibility for Fermentation Monitoring by Electrical Driven Sensing of Ultraviolet Light and Glucose. Biosensors, 2020, 10, 97.	4.7	2
93	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
94	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
95	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
96	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
97	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
98	Weak localization and quantum interference in Sn doped In[sub 2]O[sub 3] nanowires. AIP Conference Proceedings, 2010, , .	0.4	1
99	Gaussian distribution of Schottky barrier heights on SnO2 nanowires. Materials Research Society Symposia Proceedings, 2011, 1406, .	0.1	1
100	Surface States Influence in Al Schottky Barrier of Ge Nanowires. Materials Research Society Symposia Proceedings, 2013, 1510, 1.	0.1	1
101	Optical and transport properties correlation driven by amorphous/crystalline disorder in InP nanowires. Journal of Physics Condensed Matter, 2016, 28, 475303.	1.8	1
102	Metallic behavior in STO/LAO heterostructures with non-uniformly atomic interfaces. Materials Today Communications, 2020, 24, 101339.	1.9	1
103	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
104	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
105	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
106	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
107	Synthesis and Electrical Characterization of Tin Oxide Nanostructures. Materials Research Society Symposia Proceedings, 2009, 1178, 74.	0.1	0
108	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

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109	A Study of Visible-Blind Properties of a SnO2â€™s Nanowires Network Photodetector. Engineering Proceedings, 2021, 6, .	0.4	0
110	Super-redes semicondutoras: um laboratÃ³rio de MecÃ¢nica QuÃ¢ntica. Revista Brasileira De Ensino De Fisica, 2004, 26, 315-322.	0.2	0
111	CÃ©lulas solares "caseiras". Revista Brasileira De Ensino De Fisica, 2004, 26, .	0.0	0