JosÃ© P B Silva

List of Publications by Year
in descending order

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51	922	471509	501196
papers	citations	17 h-index	28 g-index

51	51	51	1096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€Performance Ferroelectricâ€“Dielectric Multilayered Thin Films for Energy Storage Capacitors. Advanced Functional Materials, 2019, 29, 1807196.	14.9	78
2	Charge Coupling Enhanced Photocatalytic Activity of BaTiO₃/MoO₃ Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 40114-40124.	8.0	61
3	Composition-dependent xBa(Zr0.2Ti0.8)O3-(1-x)(Ba0.7Ca0.3)TiO3 bulk ceramics for high energy storage applications. Ceramics International, 2019, 45, 5808-5818.	4.8	61
4	Advances in Dielectric Thin Films for Energy Storage Applications, Revealing the Promise of Group IV Binary Oxides. ACS Energy Letters, 2021, 6, 2208-2217.	17.4	50
5	Energy Harvesting Technologies for Structural Health Monitoring of Airplane Componentsâ€”A Review. Sensors, 2020, 20, 6685.	3.8	45
6	Semiconductor layer thickness impact on optical and resistive switching behavior of pulsed laser deposited BaTiO3/ZnO heterostructures. Applied Physics Letters, 2013, 102, .	3.3	43
7	High-Performance Î¼-Thermoelectric Device Based on Bi₂Te₃/Sb₂Te₃ pâ€“n Junctions. ACS Applied Materials & Interfaces, 2019, 11, 38946-38954.	8.0	36
8	Ferroelectric phase transitions studies in 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 ceramics. Journal of Electroceramics, 2015, 35, 135-140.	2.0	31
9	Enhanced resistive switching characteristics in Pt/BaTiO3/ITO structures through insertion of HfO2:Al2O3 (HAO) dielectric thin layer. Scientific Reports, 2017, 7, 46350.	3.3	30
10	Energy storage performance of ferroelectric ZrO₂ film capacitors: effect of HfO₂:Al₂O₃ dielectric insert layer. Journal of Materials Chemistry A, 2020, 8, 14171-14177.	10.3	29
11	Effect of Pt bottom electrode texture selection on the tetragonality and physical properties of Ba0.8Sr0.2TiO3 thin films produced by pulsed laser deposition. Journal of Applied Physics, 2012, 112, .	2.5	23
12	Wake-up Free Ferroelectric Rhombohedral Phase in Epitaxially Strained ZrO₂ Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 51383-51392.	8.0	23
13	Resistive switching in MoSe₂/BaTiO₃ hybrid structures. Journal of Materials Chemistry C, 2017, 5, 10353-10359.	5.5	22
14	All-Oxide pâ€“n Junction Thermoelectric Generator Based on SnO_x and ZnO Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 35187-35196.	8.0	21
15	Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO₃thin films. Materials Research Express, 2019, 6, 066421.	1.6	20
16	Unraveling the resistive switching effect in ZnO/0.5Ba(Zr 0.2 Ti 0.8)O 3 -0.5(Ba 0.7 Ca 0.3)TiO 3 heterostructures. Applied Surface Science, 2017, 400, 453-460.	6.1	19
17	Resistive switching in ferroelectric lead-free 0.5Ba(Zr_{0.2}Ti_{0.8})O₃â€“0.5(Ba_{0.7}Ca_{0.3})TiO₃thin films. Journal Physics D: Applied Physics, 2016, 49, 335301.	2.8	18
18	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O3â€“0.4(Ba0.7Ca0.3)TiO3 ceramics through the incorporation of paraelectric SrTiO3. Journal of Materials Science: Materials in Electronics, 2019, 30, 19374-19382.	2.2	18

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19	Highly sensitive thermoelectric touch sensor based on p-type SnO _x thin film. Nanotechnology, 2019, 30, 435502.	2.6	17
20	Ferroelectric properties of ZrO2 films deposited on ITO-coated glass. Ceramics International, 2022, 48, 6131-6137.	4.8	17
21	Hysteretic Characteristics of Pulsed Laser Deposited 0.5Ba(Zr_{0.2}Ti_{0.8})O₃â€“0.5(Ba_{0.7}Ca_{0.3})TiO₃/ZnO Bilayers. ACS Applied Materials & Interfaces, 2018, 10, 15240-15249.	8.3	17
22	Enhanced resistive switching and multilevel behavior in bilayered HfAlO/HfAlOx structures for non-volatile memory applications. Applied Physics Letters, 2015, 107, 242105.	3.3	15
23	Ferroelectric polarization and resistive switching characteristics of ion beam assisted sputter deposited BaTiO 3 thin films. Journal of Physics and Chemistry of Solids, 2016, 92, 7-10.	4.0	15
24	Influence of substrate temperature on the properties of pulsed laser deposited silver nanoparticle thin films and their application in SERS detection of bovine serum albumin. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	13
25	Ferroelectric photovoltaic characteristics of pulsed laser deposited 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3/ZnO heterostructures. Solar Energy, 2018, 167, 18-23.	6.1	13
26	Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser Deposited Silver Nanoparticles. Plasmonics, 2018, 13, 1235-1241.	3.4	13
27	Microstructure tailoring for enhancing the energy storage performance of 0.98[0.6Ba(Zr0.2Ti0.8)O3-0.4(Ba0.7Ca0.3)TiO3]-0.02BiZn1/2Ti1/2O3 ceramic capacitors. Journal of Science: Advanced Materials and Devices, 2020, 5, 119-124.	3.1	13
28	Morphological, optical and photovoltaic characteristics of MoSe2/SiOx/Si heterojunctions. Scientific Reports, 2020, 10, 1215.	3.3	13
29	Effect of ZnO surface morphology on its electrochemical performance. RSC Advances, 2021, 11, 23346-23354.	3.6	13
30	Influence of laser repetition rate on ferroelectric properties of pulsed laser deposited BaTiO3 films on platinized silicon substrate. Applied Physics A: Materials Science and Processing, 2013, 113, 379-384.	2.3	12
31	On the formation of an interface amorphous layer in nanostructured ferroelectric Ba0.8Sr0.2TiO3 thin films integrated on Ptâ€“Si and its effect on the electrical properties. Applied Surface Science, 2013, 278, 136-141.	6.1	11
32	Ferroelectric switching dynamics in 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 thin films. Applied Physics Letters, 2018, 113, 082903.	3.3	11
33	Light-controlled resistive switching in laser-assisted annealed Ba_{0.8} Sr_{0.2} TiO₃ thin films. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1082-1087.	1.8	10
34	Perovskite ferroelectric thin film as an efficient interface to enhance the photovoltaic characteristics of Si/SnO_x heterojunctions. Journal of Materials Chemistry A, 2020, 8, 11314-11326.	10.3	10
35	Semiconductor/relaxor 0â€“3 type composites: A novel strategy for energy storage capacitors. Journal of Science: Advanced Materials and Devices, 2021, 6, 19-26.	3.1	10
36	Progress and perspective on different strategies to achieve wake-up-free ferroelectric hafnia and zirconia-based thin films. Applied Materials Today, 2022, 26, 101394.	4.3	10

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37	Effects of oxygen partial pressure on the ferroelectric properties of pulsed laser deposited Ba0.8Sr0.2TiO3 thin films. Applied Physics A: Materials Science and Processing, 2013, 113, 817-824.	2.3	9
38	Light controlled resistive switching and photovoltaic effects in ferroelectric 0.5Ba(Zr 0.2 Ti 0.8)O 3 -0.5(Ba 0.7 Ca 0.3)TiO 3 thin films. Journal of the European Ceramic Society, 2017, 37, 583-591.	5.7	9
39	Ferroelectric properties of pulsed laser deposited PZT (92/8) thin films. Journal of Materials Science: Materials in Electronics, 2013, 24, 5097-5101.	2.2	8
40	Narrow optical gap ferroelectric Bi₂ZnTiO₆ thin films deposited by RF sputtering. Journal of Materials Chemistry A, 2019, 7, 10696-10701.	10.3	8
41	Multiscale in modelling and validation for solar photovoltaics. EPJ Photovoltaics, 2018, 9, 10.	1.6	6
42	Annealing induced effect on the physical properties of ion-beam sputtered 0.5 Ba(Zr0.2Ti0.8)O3 â€“Â0.5 (Ba0.7Ca0.3)TiO3-Î´ ferroelectric thin films. Applied Surface Science, 2018, 443, 354-360.	6.1	5
43	HfO₂â€“Al₂O₃ Dielectric Layer for a Performing Metalâ€“Ferroelectricâ€“Insulatorâ€“Semiconductor Structure with a Ferroelectric 0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃ Thin Film. ACS Applied Electronic Materials, 2020, 2, 2780-2787.	4.3	5
44	Impact of the ferroelectric layer thickness on the resistive switching characteristics of ferroelectric/dielectric structures. Applied Physics Letters, 2018, 113, .	3.3	4
45	Ba0.8Sr0.2TiO3 films crystallized on glass and platinized substrates by laser-assisted annealing at room temperature. Applied Physics A: Materials Science and Processing, 2014, 116, 1271-1280.	2.3	3
46	Strain-Engineered Tetragonal Phase and Ferroelectricity in GdMnO3 Thin Films Grown on SrTiO3 (001). Scientific Reports, 2019, 9, 18755.	3.3	2
47	Abnormal resistive switching in electrodeposited Prussian White thin films. Journal of Alloys and Compounds, 2022, 896, 162971.	5.5	2
48	Optical and electrical properties of sol-gel spin coated titanium dioxide thin films. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012021.	0.6	1
49	Structural and Electrical Properties of Nanostructured Ba_{0.8}Sr_{0.2}TiO₃ Films Deposited by Pulsed Laser Deposition. Journal of Nano Research, 2012, 18-19, 299-306.	0.8	0
50	Optical and electrical behavior of organic/inorganic hybrid with embedded gold nanoparticles. Journal of Sol-Gel Science and Technology, 2014, 69, 52-60.	2.4	0
51	Robust resistive switching performance of pulsed laser deposited SiC/Ag/SiC tri-layer thin films deposited on a glass substrate. MRS Communications, 2020, 10, 353-358.	1.8	0