

## List of Publications by Year in descending order

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51  
papers

922  
citations

471509

17  
h-index

501196

28  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1096  
citing authors

#	ARTICLE	IF	CITATIONS
1	Abnormal resistive switching in electrodeposited Prussian White thin films. <i>Journal of Alloys and Compounds</i> , 2022, 896, 162971.	5.5	2
2	Ferroelectric properties of ZrO <sub>2</sub> films deposited on ITO-coated glass. <i>Ceramics International</i> , 2022, 48, 6131-6137.	4.8	17
3	Progress and perspective on different strategies to achieve wake-up-free ferroelectric hafnia and zirconia-based thin films. <i>Applied Materials Today</i> , 2022, 26, 101394.	4.3	10
4	Semiconductor/relaxor O <sup>3</sup> type composites: A novel strategy for energy storage capacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 19-26.	3.1	10
5	Advances in Dielectric Thin Films for Energy Storage Applications, Revealing the Promise of Group IV Binary Oxides. <i>ACS Energy Letters</i> , 2021, 6, 2208-2217.	17.4	50
6	All-Oxide p-n Junction Thermoelectric Generator Based on SnO <sub>x</sub> and ZnO Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35187-35196.	8.0	21
7	Effect of ZnO surface morphology on its electrochemical performance. <i>RSC Advances</i> , 2021, 11, 23346-23354.	3.6	13
8	Wake-up Free Ferroelectric Rhombohedral Phase in Epitaxially Strained ZrO <sub>2</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51383-51392.	8.0	23
9	Microstructure tailoring for enhancing the energy storage performance of 0.98[0.6Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.4(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ]-0.02BiZn <sub>1/2</sub> Ti <sub>1/2</sub> O <sub>3</sub> ceramic capacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 119-124.	3.1	13
10	Energy Harvesting Technologies for Structural Health Monitoring of Airplane Components—A Review. <i>Sensors</i> , 2020, 20, 6685.	3.8	45
11	HfO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Dielectric Layer for a Performing Metal-Ferroelectric-Insulator-Semiconductor Structure with a Ferroelectric 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> Thin Film. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2780-2787.	4.3	5
12	Robust resistive switching performance of pulsed laser deposited SiC/Ag/SiC tri-layer thin films deposited on a glass substrate. <i>MRS Communications</i> , 2020, 10, 353-358.	1.8	0
13	Perovskite ferroelectric thin film as an efficient interface to enhance the photovoltaic characteristics of Si/SnO <sub>x</sub> heterojunctions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11314-11326.	10.3	10
14	Energy storage performance of ferroelectric ZrO <sub>2</sub> film capacitors: effect of HfO <sub>2</sub> :Al <sub>2</sub> O <sub>3</sub> dielectric insert layer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14171-14177.	10.3	29
15	Morphological, optical and photovoltaic characteristics of MoSe <sub>2</sub> /SiO <sub>x</sub> /Si heterojunctions. <i>Scientific Reports</i> , 2020, 10, 1215.	3.3	13
16	Highly sensitive thermoelectric touch sensor based on p-type SnO <sub>x</sub> thin film. <i>Nanotechnology</i> , 2019, 30, 435502.	2.6	17
17	High-Performance 1/4-Thermoelectric Device Based on Bi <sub>2</sub> Te <sub>3</sub> /Sb <sub>2</sub> Te <sub>3</sub> p-n Junctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38946-38954.	8.0	36
18	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.4(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics through the incorporation of paraelectric SrTiO <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19374-19382.	2.2	18

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19	Charge Coupling Enhanced Photocatalytic Activity of BaTiO <sub>3</sub> /MoO <sub>3</sub> Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 40114-40124.	8.0	61
20	Narrow optical gap ferroelectric Bi <sub>2</sub> ZnTiO <sub>6</sub> thin films deposited by RF sputtering. Journal of Materials Chemistry A, 2019, 7, 10696-10701.	10.3	8
21	Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO <sub>3</sub> thin films. Materials Research Express, 2019, 6, 066421.	1.6	20
22	Strain-Engineered Tetragonal Phase and Ferroelectricity in GdMnO <sub>3</sub> Thin Films Grown on SrTiO <sub>3</sub> (001). Scientific Reports, 2019, 9, 18755.	3.3	2
23	High-Performance Ferroelectric Dielectric Multilayered Thin Films for Energy Storage Capacitors. Advanced Functional Materials, 2019, 29, 1807196.	14.9	78
24	Composition-dependent xBa(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -(1-x)(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> bulk ceramics for high energy storage applications. Ceramics International, 2019, 45, 5808-5818.	4.8	61
25	Annealing induced effect on the physical properties of ion-beam sputtered 0.5 Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> - 0.5 (Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ferroelectric thin films. Applied Surface Science, 2018, 443, 354-360.	6.1	5
26	Ferroelectric photovoltaic characteristics of pulsed laser deposited 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> /ZnO heterostructures. Solar Energy, 2018, 167, 18-23.	6.1	13
27	Hysteretic Characteristics of Pulsed Laser Deposited 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> /ZnO Bilayers. ACS Applied Materials & Interfaces, 2018, 10, 15240-15249.	6.1	13
28	Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser Deposited Silver Nanoparticles. Plasmonics, 2018, 13, 1235-1241.	3.4	13
29	Multiscale in modelling and validation for solar photovoltaics. EPJ Photovoltaics, 2018, 9, 10.	1.6	6
30	Impact of the ferroelectric layer thickness on the resistive switching characteristics of ferroelectric/dielectric structures. Applied Physics Letters, 2018, 113, .	3.3	4
31	Ferroelectric switching dynamics in 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> thin films. Applied Physics Letters, 2018, 113, 082903.	3.3	11
32	Enhanced resistive switching characteristics in Pt/BaTiO <sub>3</sub> /ITO structures through insertion of HfO <sub>2</sub> :Al <sub>2</sub> O <sub>3</sub> (HAO) dielectric thin layer. Scientific Reports, 2017, 7, 46350.	3.3	30
33	Unraveling the resistive switching effect in ZnO/0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> heterostructures. Applied Surface Science, 2017, 400, 453-460.	6.1	19
34	Resistive switching in MoSe <sub>2</sub> /BaTiO <sub>3</sub> hybrid structures. Journal of Materials Chemistry C, 2017, 5, 10353-10359.	5.5	22
35	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
36	Light controlled resistive switching and photovoltaic effects in ferroelectric 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> thin films. Journal of the European Ceramic Society, 2017, 37, 583-591.	5.7	9

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37	Light-controlled resistive switching in laser-assisted annealed Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1082-1087.	1.8	10
38	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. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	13
39	Resistive switching in ferroelectric lead-free 0.5Ba (Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> â€“0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> thin films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 335301.	1.8	18
40	Ferroelectric polarization and resistive switching characteristics of ion beam assisted sputter deposited BaTiO <sub>3</sub> thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 92, 7-10.	4.0	15
41	Enhanced resistive switching and multilevel behavior in bilayered HfAlO/HfAlO <sub>x</sub> structures for non-volatile memory applications. <i>Applied Physics Letters</i> , 2015, 107, 242105.	3.3	15
42	Ferroelectric phase transitions studies in 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics. <i>Journal of Electroceramics</i> , 2015, 35, 135-140.	2.0	31
43	Optical and electrical behavior of organic/inorganic hybrid with embedded gold nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 69, 52-60.	2.4	0
44	Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> films crystallized on glass and platinized substrates by laser-assisted annealing at room temperature. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1271-1280.	2.3	3
45	On the formation of an interface amorphous layer in nanostructured ferroelectric Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> thin films integrated on Ptâ€“Si and its effect on the electrical properties. <i>Applied Surface Science</i> , 2013, 278, 136-141.	6.1	11
46	Effects of oxygen partial pressure on the ferroelectric properties of pulsed laser deposited Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 817-824.	2.3	9
47	Influence of laser repetition rate on ferroelectric properties of pulsed laser deposited BaTiO <sub>3</sub> films on platinized silicon substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 379-384.	2.3	12
48	Ferroelectric properties of pulsed laser deposited PZT (92/8) thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 5097-5101.	2.2	8
49	Semiconductor layer thickness impact on optical and resistive switching behavior of pulsed laser deposited BaTiO <sub>3</sub> /ZnO heterostructures. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	43
50	Structural and Electrical Properties of Nanostructured Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> Films Deposited by Pulsed Laser Deposition. <i>Journal of Nano Research</i> , 2012, 18-19, 299-306.	0.8	0
51	Effect of Pt bottom electrode texture selection on the tetragonality and physical properties of Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> thin films produced by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	23