Abdelilah Lahmar

List of Publications by Year
in descending order

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95 papers	1,853 citations	279798 23 h-index	289244 40 g-index
96 all docs	96 docs citations	96 times ranked	1631 citing authors

#	Article	IF	Citations
1	Lead-free Ba0.8Ca0.2(ZrxTi1â^'x)O3 ceramics with large electrocaloric effect. Applied Physics Letters, 2015, 106, .	3.3	127
2	Effects of rare earth manganites on structural, ferroelectric, and magnetic properties of BiFeO3 thin films. Applied Physics Letters, 2009, 94, .	3.3	109
3	Structural, optical, and electrical properties of Nd-doped Na0.5Bi0.5TiO3. Materials Chemistry and Physics, 2012, 134, 829-833.	4.0	92
4	Dielectric, ferroelectric, and energy storage properties in dysprosium doped sodium bismuth titanate ceramics. Ceramics International, 2018, 44, 19451-19460.	4.8	86
5	Observation of structural transitions and Jahnâ€“Teller distortion in LaMnO3-doped BiFeO3 thin films. Applied Physics Letters, 2008, 92, .	3.3	72
6	Off-stoichiometry effects on BiFeO3 thin films. Solid State Ionics, 2011, 202, 1-5.	2.7	67
7	Brookite Formation in TiO₂ï£¿Ag Nanocomposites and Visibleâ€Lightâ€Induced Templated Growth of Ag Nanostructures in TiO₂. Advanced Functional Materials, 2010, 20, 377-385.	14.9	63
8	Sequence of structural transitions and electrocaloric properties in (Ba1-xCax)(Zr0.1Ti0.9)O3 ceramics. Journal of Alloys and Compounds, 2017, 713, 164-179.	5.5	62
9	Room temperature electro-caloric effect in lead-free Ba(Zr0.1Ti0.9)1â^'Sn O3 (x=0, x=0.075) ceramics. Solid State Communications, 2015, 201, 64-67.	1.9	60
10	Electrocaloric effect and luminescence properties of lanthanide doped (Na1/2Bi1/2)TiO3 lead free materials. Applied Physics Letters, 2015, 107, .	3.3	56
11	Electrocaloric effect and energy storage in lead free Gd 0.02 Na 0.5 Bi 0.48 TiO 3 ceramic. Solid State Sciences, 2017, 66, 31-37.	3.2	52
12	Correlation between structure, dielectric, and ferroelectric properties in BiFeO3â€“LaMnO3 solid solution thin films. Journal of Applied Physics, 2009, 105, 014111.	2.5	50
13	Complex impedance and Raman spectroscopy of Na0.5(Bi1-xDyx)0.5TiO3 ceramics. Ceramics International, 2020, 46, 10979-10991.	4.8	46
14	Indirect and direct electrocaloric measurements of (Ba1â^'xCax)(Zr0.1Ti0.9)O3 ceramics (xÂ=Â0.05, xÂ=Â0.20). Journal of Alloys and Compounds, 2016, 667, 198-203.	5.5	45
15	Multiferroic properties of Bi0.9Gd0.1Fe0.9Mn0.1O3 thin film. Journal of Applied Physics, 2010, 107, .	2.5	41
16	Electro-caloric effect in lead-free ferroelectric Ba1â^'Ca (Zr0.1Ti0.9)0.925 Sn0.075O3 ceramics. Ceramics International, 2015, 41, 15103-15110.	4.8	38
17	Effect of BaOâ€“Bi2O3â€“P2O5 glass additive on structural, dielectric and energy storage properties of BaTiO3 ceramics. Materials Chemistry and Physics, 2020, 241, 122434.	4.0	36
18	Energy storage property in lead free gd doped Na1/2Bi1/2TiO3 ceramics. Solid State Communications, 2016, 245, 1-4.	1.9	32

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19	Chemical synthesis and magnetic properties of monodisperse cobalt ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 14913-14922.	2.2	32
20	Ferroelectric phase changes and electrocaloric effects in Ba(Zr0.1Ti0.9)1â^'x Sn x O3 ceramics solid solution. Journal of Materials Science, 2016, 51, 3454-3462.	3.7	30
21	Enhancing the dielectric, electrocaloric and energy storage properties of lead-free Ba0.85Ca0.15Zr0.1Ti0.9O3 ceramics prepared via sol-gel process. Physica B: Condensed Matter, 2021, 603, 412760.	2.7	30
22	Ferroelectric properties of manganese doped (Bi1/2Na1/2)TiO3 and (Bi1/2Na1/2)TiO3â€“BaTiO3 epitaxial thin films. Applied Surface Science, 2015, 359, 923-930.	6.1	27
23	Dielectric permittivity enhancement and large electrocaloric effect in the lead free (Ba0.8Ca0.2)1-xLa2x/3TiO3 ferroelectric ceramics. Journal of Alloys and Compounds, 2018, 730, 501-508.	5.5	27
24	Substrate heterostructure effects on interface composition, microstructure development and functional properties of PZT thin films. Acta Materialia, 2009, 57, 2328-2338.	7.9	23
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37	Microstructure and property control in TiO2â€“Pt nanocomposite thin films. Ceramics International, 2015, 41, 443-449.	4.8	13
38	Sequence of structural transitions in BiFeO3â€“RMnO3 thin films (R=Rare earth). Ceramics International, 2015, 41, 5721-5726.	4.8	12
39	Effect of Pr 3+ doping on structural, electrical, and optical properties of BaTi 0.925 (Yb 0.5 Nb 0.5) 0.075 O 3 ceramics. Journal of Alloys and Compounds, 2016, 686, 153-159.	5.5	12
40	Effect of CdSe nanoparticles incorporation on the performance of P3OT organic photovoltaic cells. Materials Science in Semiconductor Processing, 2016, 41, 343-349.	4.0	12
41	Effects of lanthanide amphoteric incorporation on structural, electrical, and photoluminescence properties of BaTi 0.925 (Yb 0.5 Nb 0.5) 0.075 O 3 ceramic. Journal of Alloys and Compounds, 2017, 711, 205-214.	5.5	12
42	Structural, elelectrical and energy storage properties of BaOâ€“Na₂Oâ€“Nb₂O₅â€“WO₃â€“P₂O₅ glassâ€“ceramics system. Materials Research Express, 2019, 6, 115203.	1.6	12
43	Design, structural evolution, optical, electrical and dielectric properties of perovskite ceramics Ba1-xBixTi1-xFexO3 (0 â‰¤ x â‰¤ 0.8). Materials Chemistry and Physics, 2021, 273, 125096.	4.0	12
44	Large direct and inverse electrocaloric effects in lead-free Dy doped 0.975KNN-0.025NBT ceramics. Ceramics International, 2021, 47, 31286-31293.	4.8	12
45	Structural and dielectric properties of a new lead-free ferroelectric Ba0.8Ca0.2Ti0.8Ge0.2O3 ceramics. Superlattices and Microstructures, 2014, 71, 162-167.	3.1	11
46	Synthesis, Crystal Structure and Properties of a New Phosphate, Na2Co2Cr(PO4)3. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2854-2864.	3.7	11
47	Structural, optical, and dielectric properties of Bi₂O₃-K₂O-TiO₂-P₂O₅ glasses and related glass-ceramics. Phase Transitions, 2020, 93, 1030-1047.	1.3	10
48	Lead free Ba0.8Ca0.2TexTi1â^'xO3 ferroelectric ceramics exhibiting high electrocaloric properties. Journal of Applied Physics, 2017, 121, .	2.5	9
49	Electrocaloric response in lanthanum-modified lead zirconate titanate ceramics. Journal of Applied Physics, 2020, 127, .	2.5	9
50	Prediction of magnetoelectric properties of defect BiFeO3 thin films using Monte Carlo simulations. Journal of Magnetism and Magnetic Materials, 2021, 539, 168402.	2.3	9
51	Multiferroic properties and frequency dependent coercive field in BiFeO 3 -LaMn 0.5 Co 0.5 O 3 thin films. Journal of Magnetism and Magnetic Materials, 2017, 439, 30-37.	2.3	8
52	Structural and dielectrics properties of Pr3+ doped BaTi0.925(Yb0.5Nb0.5)0.075O3 ceramics. Journal of Alloys and Compounds, 2017, 729, 858-865.	5.5	8
53	Unconventional spin-glass-like state in AgCo2V3O10, the novel magnetically frustrated material. Journal of Magnetism and Magnetic Materials, 2019, 491, 165623.	2.3	8
54	Synthesis, characterization, magnetic properties, and lead sensing based on a new alluaudite-like phosphate Na2Mn2Cr(PO4)3. Journal of Materials Science, 2021, 56, 2163-2175.	3.7	8

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55	Multifunctionality of rare earth doped 0.925Na0.5Bi0.5TiO3-0.075K0.5Na0.5NbO3 ferroelectric ceramics. Journal of Alloys and Compounds, 2022, 921, 166188.	5.5	8
56	Structural, optical, and dielectric properties of the BaOâ€“TiO2â€“P2O5 glasses. Journal of the Australian Ceramic Society, 2020, 56, 1467-1479.	1.9	7
57	Optical properties of P3HT:tributylphosphine oxide-capped CdSe nanocomposites. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	6
58	RF magnetron sputtering deposition of NiO/Ni bilayer and approach of the Magnetic behavior using the Preisach model. Journal of Magnetism and Magnetic Materials, 2017, 428, 377-381.	2.3	6
59	Structural investigation, dielectric, ferroelectric, and elecrocaloric properties of lead-free Ba(1â^'x)CaxTi(1â^'x)(Li1/3Nb2/3)xO3â^Î´ (xâ€‰=â€‰0.02 and xâ€‰=â€‰0.07) ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 18640-18649.	2.2	6
60	Evaluation of the impact of buffered peptone water composition on the discrimination between Salmonella enterica and Escherichia coli by Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 3595-3604.	3.7	6
61	Main Technological Advancements in Bacterial Bioluminescent Biosensors Over the Last Two Decades. Advances in Biochemical Engineering/Biotechnology, 2015, , 101-116.	1.1	5
62	Structural, vibrational, and dielectric investigations of Ba0.925Bi0.05(Ti0.95â^'xZrx)Sn0.05O3 ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 16144-16154.	2.2	5
63	Perovskite solar cells free of hole transport layer. Journal of Sol-Gel Science and Technology, 2019, 90, 443-449.	2.4	5
64	Synthesis, Characterization, and Magnetic Properties of A2Co2Fe(VO4)3 (A = Ag or Na) Alluaudite-Type Vanadates. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2437-2446.	1.8	5
65	Calcination temperature effect on dielectric, structural and morphology properties of BaTiO₃ nano-structure prepared by modified solâ€"gel technique. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 015015.	1.5	5
66	The effects of N2 atmosphere annealing on the physical properties of BiFe0.5Mn0.5O3 ceramic. Journal of Alloys and Compounds, 2021, 877, 160323.	5.5	5
67	Temperature influence on microstructure and optical properties of TiO2â€“Au thin films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
68	Modelling of the ferroelectric and energy storage properties of PbZr_{1â^'x}Ti_xO₃ thin films using Monte Carlo simulation. Materials Research Express, 2019, 6, 126429.	1.6	4
69	Phase separation and local lattice distortions analysis of charge-ordered manganese films La1-CaxMnO3- by Raman spectroscopy. Superlattices and Microstructures, 2019, 127, 100-108.	3.1	4
70	Theoretical Investigation of Magnetoelectric Coupling in MFe2O4/PbZ0.5T0.5O3/MFe2O4 (Mâ€‰=â€‰Ni, Co) Heterostructure. Journal of Superconductivity and Novel Magnetism, 0, , 1.	1.8	4
71	Magnetic properties of a new cobalt hydrogen vanadate with a dumortierite-like structure: Co_{13.5}(OH)₆(H_{0.5}VO_{3.5})₂(VO₄)₆. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 777-782.	1.0	4
72	Photoelectrochemical Enhancement of Graphene@WS2 Nanosheets for Water Splitting Reaction. Nanomaterials, 2022, 12, 1914.	4.1	4

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73	A novel phosphate, K4NiFe3(PO4)5: Synthesis, crystal structure and magnetic properties. Journal of Solid State Chemistry, 2022, 313, 123333.	2.9	4
74	Single crystal structure determination and infrared fluorescence of the system (K3Sr1â^'xNdx) (Nd1â^'xSr1+x) Nb10O30. Materials Research Bulletin, 2012, 47, 2566-2572.	5.2	3
75	Structural characterization and optical properties of pulsed laser deposition of Se75Te25 and Se75Te17Ge8 amorphous thin films. Materials Science in Semiconductor Processing, 2015, 39, 172-177.	4.0	3
76	Magnetoelectric coupling at the NiFe2O4/PZT (001) interface: A density functional theory investigation. Superlattices and Microstructures, 2020, 139, 106401.	3.1	3
77	Energy storage property of Lead-free Na_{0.5}Bi_{0.5}TiO₃ ceramic and thin film. , 2017, , .		2
78	A novel alluaudite-type vanadate, Na2Zn2Fe(VO4)3: Synthesis, crystal structure, characterization and magnetic properties. Inorganic Chemistry Communication, 2019, 107, 107472.	3.9	2
79	Enhanced magnetization in multiferroic nanocomposite Bi0.9Gd0.1Fe0.9Mn0.05X0.05O3 (X= Cr, Co) thin films. Thin Solid Films, 2020, 709, 138025.	1.8	2
80	Er³⁺ and Er³⁺/Yb³⁺ Ions Embedded in Nano-Structure BaTi_{0.9}Sn_{0.1}O₃: Structure, Morphology and Dielectric Properties. World Journal of Nano Science and Engineering, 2021, 11, 25-43.	0.3	2
81	Structural determination, dielectric and photoluminescence properties of Ba0.975Ln0.017(Ti0.95-xZrxSn0.05)O3 (Ln = Eu, Ho; x= 0.05, 0.20). Physica B: Condensed Matter, 2021, 623, 413365.	2.7	2
82	First-principles investigation on multiferroic properties of BiFeO3-REMnO3 (RE = Er, Eu, Gd, Ho, La, Tb). Materials Today Communications, 2021, 29, 102976.	1.9	2
83	Analyse of structural and electrical properties of NaBa(2-x)Nd2x/3Nb5O15 solid solution with (0 â‰¤ x) Tj ETQq1 1 0.784314 rgBT /Ov	4.0	2
84	Ferroelectric and photoelectrochemical studies of lead-free Ba0.925Bi0.05 â–¡0.025(Ti0.65Zr0.30Sn0.05)O3 ceramic and its application to Rhodamine B oxidation under solar light. Arabian Journal of Chemistry, 2022, 15, 103744.	4.9	2
85	Impact of annealing on electrocaloric response in Lanthanum-modified lead zirconate titanate ceramic. Journal of Alloys and Compounds, 2022, 907, 164517.	5.5	2
86	Nanostructured BaTi1-xSnxO3 ferroelectric materials for electrocaloric applications and energy performance. Current Applied Physics, 2022, 38, 59-66.	2.4	2
87	Structural and magnetic study of the influence of thickness on multilayer (Ni/NiO) deposits at room temperature. , 2018, , .		1
88	A new sodium- and manganese-based trivanadate NaMn2V3O10: synthesis, structural and magnetic insights. Monatshefte FÃ¼r Chemie, 2020, 151, 677-684.	1.8	1
89	Microstructure and surface characterization of Ni-Cr based composites containing variable solid lubricants. Tribology - Materials, Surfaces and Interfaces, 2020, 14, 219-228.	1.4	1
90	Effect of the BaO-Na2O-Nb2O5-P2O5 glass addition on microstructure and dielectric properties of BNN ceramics. Materials Today: Proceedings, 2021, , .	1.8	1

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91	Investigation of the cationic distribution within the lattice of a series of niobates with tetragonal tungsten bronze structure. Journal of Electroceramics, 2008, 21, 719-723.	2.0	0
92	H<inf>2</inf> production by water radiolysis in presence of M/TiO<inf>2</inf> (M=3D Pt; Au) nanocomposite films. , 2017, , .		0
93	Effect of thermal annealing on microstructure and optical properties of silver-carbon nanocomposite thin films. Materials Today: Proceedings, 2021, 51, 543-543.	1.8	0
94	Structural, dielectric and photoelectrochemical properties of new lead-free ceramics of composition Ba0.925Bi0.05(Ti0.95â^'x Zr x)Sn0.05O3. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e283-e283.	0.1	0
95	Magnetically controlled insertion of cobalt ferrite nanoparticles into a porous anodic aluminum oxide (AAO) membrane. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0