

Abdelilah Lahmar

List of Publications by Year in descending order

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1,853
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279487

23
h-index

288905

40
g-index

96
all docs

96
docs citations

96
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-free Ba _{0.8} Ca _{0.2} (Zr _x Ti _{1-x})O ₃ ceramics with large electrocaloric effect. Applied Physics Letters, 2015, 106, .	1.5	127
2	Effects of rare earth manganites on structural, ferroelectric, and magnetic properties of BiFeO ₃ thin films. Applied Physics Letters, 2009, 94, .	1.5	109
3	Structural, optical, and electrical properties of Nd-doped Na _{0.5} Bi _{0.5} TiO ₃ . Materials Chemistry and Physics, 2012, 134, 829-833.	2.0	92
4	Dielectric, ferroelectric, and energy storage properties in dysprosium doped sodium bismuth titanate ceramics. Ceramics International, 2018, 44, 19451-19460.	2.3	86
5	Observation of structural transitions and Jahn-Teller distortion in LaMnO ₃ -doped BiFeO ₃ thin films. Applied Physics Letters, 2008, 92, .	1.5	72
6	Off-stoichiometry effects on BiFeO ₃ thin films. Solid State Ionics, 2011, 202, 1-5.	1.3	67
7	Brookite Formation in TiO ₂ /Ag Nanocomposites and Visible-Light-Induced Templated Growth of Ag Nanostructures in TiO ₂ . Advanced Functional Materials, 2010, 20, 377-385.	7.8	63
8	Sequence of structural transitions and electrocaloric properties in (Ba _{1-x} Ca _x)(Zr _{0.1} Ti _{0.9})O ₃ ceramics. Journal of Alloys and Compounds, 2017, 713, 164-179.	2.8	62
9	Room temperature electro-caloric effect in lead-free Ba(Zr _{0.1} Ti _{0.9}) _{1-x} Sn O ₃ (x=0, x=0.075) ceramics. Solid State Communications, 2015, 201, 64-67.	0.9	60
10	Electrocaloric effect and luminescence properties of lanthanide doped (Na _{1/2} Bi _{1/2})TiO ₃ lead free materials. Applied Physics Letters, 2015, 107, .	1.5	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.	1.5	52
12	Correlation between structure, dielectric, and ferroelectric properties in BiFeO ₃ /LaMnO ₃ solid solution thin films. Journal of Applied Physics, 2009, 105, 014111.	1.1	50
13	Complex impedance and Raman spectroscopy of Na _{0.5} (Bi _{1-x} Dy _x) _{0.5} TiO ₃ ceramics. Ceramics International, 2020, 46, 10979-10991.	2.3	46
14	Indirect and direct electrocaloric measurements of (Ba _{1-x} Ca _x)(Zr _{0.1} Ti _{0.9})O ₃ ceramics (x=0.05, x=0.20). Journal of Alloys and Compounds, 2016, 667, 198-203.	2.8	45
15	Multiferroic properties of Bi _{0.9} Gd _{0.1} Fe _{0.9} Mn _{0.1} O ₃ thin film. Journal of Applied Physics, 2010, 107, .	1.1	41
16	Electro-caloric effect in lead-free ferroelectric Ba _{1-x} Ca (Zr _{0.1} Ti _{0.9}) _{0.925} Sn _{0.075} O ₃ ceramics. Ceramics International, 2015, 41, 15103-15110.	2.3	38
17	Effect of BaO/Bi ₂ O ₃ /P ₂ O ₅ glass additive on structural, dielectric and energy storage properties of BaTiO ₃ ceramics. Materials Chemistry and Physics, 2020, 241, 122434.	2.0	36
18	Energy storage property in lead free gd doped Na _{1/2} Bi _{1/2} TiO ₃ ceramics. Solid State Communications, 2016, 245, 1-4.	0.9	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.	1.1	32
20	Ferroelectric phase changes and electrocaloric effects in Ba(Zr _{0.1} Ti _{0.9}) _{1-x} Sn _x O ₃ ceramics solid solution. Journal of Materials Science, 2016, 51, 3454-3462.	1.7	30
21	Enhancing the dielectric, electrocaloric and energy storage properties of lead-free Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics prepared via sol-gel process. Physica B: Condensed Matter, 2021, 603, 412760.	1.3	30
22	Ferroelectric properties of manganese doped (Bi _{1/2} Na _{1/2})TiO ₃ and (Bi _{1/2} Na _{1/2})TiO ₃ ∕BaTiO ₃ epitaxial thin films. Applied Surface Science, 2015, 359, 923-930.	3.1	27
23	Dielectric permittivity enhancement and large electrocaloric effect in the lead free (Ba _{0.8} Ca _{0.2}) _{1-x} La _{2x/3} TiO ₃ ferroelectric ceramics. Journal of Alloys and Compounds, 2018, 730, 501-508.	2.8	27
24	Substrate heterostructure effects on interface composition, microstructure development and functional properties of PZT thin films. Acta Materialia, 2009, 57, 2328-2338. Dielectric, ultraviolet/visible, and Raman spectroscopic investigations of the phase transition	3.8	23
25			

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37	Microstructure and property control in TiO ₂ @Pt nanocomposite thin films. <i>Ceramics International</i> , 2015, 41, 443-449.	2.3	13
38	Sequence of structural transitions in BiFeO ₃ @RMnO ₃ thin films (R=Rare earth). <i>Ceramics International</i> , 2015, 41, 5721-5726.	2.3	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. <i>Journal of Alloys and Compounds</i> , 2016, 686, 153-159.	2.8	12
40	Effect of CdSe nanoparticles incorporation on the performance of P3OT organic photovoltaic cells. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 343-349.	1.9	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. <i>Journal of Alloys and Compounds</i> , 2017, 711, 205-214.	2.8	12
42	Structural, electrical and energy storage properties of BaO@Na ₂ O@Nb ₂ O ₅ @WO ₃ @P ₂ O ₅ glass-ceramics system. <i>Materials Research Express</i> , 2019, 6, 115203.	1.8	12
43	Design, structural evolution, optical, electrical and dielectric properties of perovskite ceramics Ba _{1-x} BixTi _{1-x} FexO ₃ (0 ≤ x ≤ 0.8). <i>Materials Chemistry and Physics</i> , 2021, 273, 125096.	2.0	12
44	Large direct and inverse electrocaloric effects in lead-free Dy doped 0.975KNN-0.025NBT ceramics. <i>Ceramics International</i> , 2021, 47, 31286-31293.	2.3	12
45	Structural and dielectric properties of a new lead-free ferroelectric Ba _{0.8} Ca _{0.2} Ti _{0.8} Ge _{0.2} O ₃ ceramics. <i>Superlattices and Microstructures</i> , 2014, 71, 162-167.	1.4	11
46	Synthesis, Crystal Structure and Properties of a New Phosphate, Na ₂ Co ₂ Cr(PO ₄) ₃ . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2854-2864.	1.9	11
47	Structural, optical, and dielectric properties of Bi ₂ O ₃ -K ₂ O-Ti ₂ O-P ₂ O ₅ glasses and related glass-ceramics. <i>Phase Transitions</i> , 2020, 93, 1030-1047.	0.6	10
48	Lead free Ba _{0.8} Ca _{0.2} Ti _{1-x} O ₃ ferroelectric ceramics exhibiting high electrocaloric properties. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	9
49	Electrocaloric response in lanthanum-modified lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	9
50	Prediction of magnetoelectric properties of defect BiFeO ₃ thin films using Monte Carlo simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168402.	1.0	9
51	Multiferroic properties and frequency dependent coercive field in BiFeO ₃ -LaMn _{0.5} Co _{0.5} O ₃ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 30-37.	1.0	8
52	Structural and dielectrics properties of Pr ³⁺ doped BaTi _{0.925} (Yb _{0.5} Nb _{0.5}) _{0.075} O ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 729, 858-865.	2.8	8
53	Unconventional spin-glass-like state in AgCo ₂ V ₃ O ₁₀ , the novel magnetically frustrated material. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 491, 165623.	1.0	8
54	Synthesis, characterization, magnetic properties, and lead sensing based on a new alluaudite-like phosphate Na ₂ Mn ₂ Cr(PO ₄) ₃ . <i>Journal of Materials Science</i> , 2021, 56, 2163-2175.	1.7	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.	2.8	8
56	Structural, optical, and dielectric properties of the BaOâ€“TiO2â€“P2O5 glasses. Journal of the Australian Ceramic Society, 2020, 56, 1467-1479.	1.1	7
57	Optical properties of P3HT:tributylphosphine oxide-capped CdSe nanocomposites. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	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.	1.0	6
59	Structural investigation, dielectric, ferroelectric, and electrocaloric properties of lead-free Ba(1âˆ“x)CaxTi(1âˆ“x)(Li1/3Nb2/3)xO3âˆ“ (xâ€‰=â€‰0.02 and xâ€‰=â€‰0.07) ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 18640-18649.		
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.	1.9	6
61	Main Technological Advancements in Bacterial Bioluminescent Biosensors Over the Last Two Decades. Advances in Biochemical Engineering/Biotechnology, 2015, , 101-116.	0.6	5
62	Structural, vibrational, and dielectric investigations of Ba0.925Bi0.05(Ti0.95âˆ“xZrx)Sn0.05O3 ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 16144-16154.	1.1	5
63	Perovskite solar cells free of hole transport layer. Journal of Sol-Gel Science and Technology, 2019, 90, 443-449.	1.1	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.	0.8	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.	0.7	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.	2.8	5
67	Temperature influence on microstructure and optical properties of TiO2â€“Au thin films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
68	Modelling of the ferroelectric and energy storage properties of PbZr_{1âˆ“x}Ti_xO₃ thin films using Monte Carlo simulation. Materials Research Express, 2019, 6, 126429.	0.8	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.	1.4	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.	0.8	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.		
72	Photoelectrochemical Enhancement of Graphene@WS2 Nanosheets for Water Splitting Reaction. Nanomaterials, 2022, 12, 1914.	1.9	4

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73	A novel phosphate, $K_4NiFe_3(PO_4)_5$: Synthesis, crystal structure and magnetic properties. Journal of Solid State Chemistry, 2022, 313, 123333.	1.4	4
74	Single crystal structure determination and infrared fluorescence of the system $(K_3Sr_{1-x}Nd_x)(Nd_{1-x}Sr_{1+x})Nb_{10}O_{30}$. Materials Research Bulletin, 2012, 47, 2566-2572.	2.7	3
75	Structural characterization and optical properties of pulsed laser deposition of $Se_{75}Te_{25}$ and $Se_{75}Te_{17}Ge_8$ amorphous thin films. Materials Science in Semiconductor Processing, 2015, 39, 172-177.	1.9	3
76	Magnetoelectric coupling at the $NiFe_2O_4/PZT$ (001) interface: A density functional theory investigation. Superlattices and Microstructures, 2020, 139, 106401.	1.4	3
77	Energy storage property of Lead-free $Na_{0.5}Bi_{0.5}TiO_3$ ceramic and thin film. , 2017, , .		2
78	A novel alluaudite-type vanadate, $Na_2Zn_2Fe(VO_4)_3$: Synthesis, crystal structure, characterization and magnetic properties. Inorganic Chemistry Communication, 2019, 107, 107472.	1.8	2
79	Enhanced magnetization in multiferroic nanocomposite $Bi_{0.9}Gd_{0.1}Fe_{0.9}Mn_{0.05}X_{0.05}O_3$ (X= Cr, Co) thin films. Thin Solid Films, 2020, 709, 138025.	0.8	2
80	Er^{3+} and Er^{3+}/Yb^{3+} Ions Embedded in Nano-Structure $BaTi_{0.9}Sn_{0.1}O_3$: 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 $Ba_{0.975}Ln_{0.017}(Ti_{0.95-x}Zr_xSn_{0.05})O_3$ (Ln = Eu, Ho; x= 0.05, 0.20). Physica B: Condensed Matter, 2021, 623, 413365.	1.3	2
82	First-principles investigation on multiferroic properties of $BiFeO_3-REMnO_3$ (RE = Er, Eu, Gd, Ho, La, Tb). Materials Today Communications, 2021, 29, 102976.	0.9	2
83	Analyse of structural and electrical properties of $NaBa_{2-x}Nd_x/3Nb_5O_{15}$ solid solution with $(0 \leq x \leq 1)$. T_j ETQq1 1 0,784314,rgBT /Over 2.0	2.0	2
84	Ferroelectric and photoelectrochemical studies of lead-free $Ba_{0.925}Bi_{0.05}Ti_{0.025}(Ti_{0.65}Zr_{0.30}Sn_{0.05})O_3$ ceramic and its application to Rhodamine B oxidation under solar light. Arabian Journal of Chemistry, 2022, 15, 103744.	2.3	2
85	Impact of annealing on electrocaloric response in Lanthanum-modified lead zirconate titanate ceramic. Journal of Alloys and Compounds, 2022, 907, 164517.	2.8	2
86	Nanostructured $BaTi_{1-x}Sn_xO_3$ ferroelectric materials for electrocaloric applications and energy performance. Current Applied Physics, 2022, 38, 59-66.	1.1	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 $NaMn_2V_3O_{10}$: synthesis, structural and magnetic insights. Monatshefte für Chemie, 2020, 151, 677-684.	0.9	1
89	Microstructure and surface characterization of Ni-Cr based composites containing variable solid lubricants. Tribology - Materials, Surfaces and Interfaces, 2020, 14, 219-228.	0.6	1
90	Effect of the $BaO-Na_2O-Nb_2O_5-P_2O_5$ glass addition on microstructure and dielectric properties of BNN ceramics. Materials Today: Proceedings, 2021, , .	0.9	1

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91	Investigation of the cationic distribution within the lattice of a series of niobates with tetragonal tungsten bronze structure. <i>Journal of Electroceramics</i> , 2008, 21, 719-723.	0.8	0
92	H ₂ O ₂ production by water radiolysis in presence of M/TiO ₂ (M=3D Pt; Au) nanocomposite films. , 2017, , .		0
93	Effect of thermal annealing on microstructure and optical properties of silver-carbon nanocomposite thin films. <i>Materials Today: Proceedings</i> , 2021, 51, 543-543.	0.9	0
94	Structural, dielectric and photoelectrochemical properties of new lead-free ceramics of composition Ba _{0.925} Bi _{0.05} (Ti _{0.95} ^x Zr _x)Sn _{0.05} O ₃ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e283-e283.	0.0	0
95	Magnetically controlled insertion of cobalt ferrite nanoparticles into a porous anodic aluminum oxide (AAO) membrane. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	0