

Abdelilah Lahmar

List of Publications by Year in descending order

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95
papers

1,853
citations

279487

23
h-index

288905

40
g-index

96
all docs

96
docs citations

96
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of rare earth on physical properties of Na _{0.5} Bi _{0.5} TiO ₃ system: A density functional theory investigation. <i>Journal of Rare Earths</i> , 2022, 40, 473-481.	2.5	16
2	Analyse of structural and electrical properties of NaBa _(2-x) Nd _{2x/3} Nb ₅ O ₁₅ solid solution with (0 ≤ x ≤ 1) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	2.0	2
3	Ferroelectric and photoelectrochemical studies of lead-free Ba _{0.925} Bi _{0.05} À-;0.025(Ti _{0.65} Zr _{0.30} Sn _{0.05})O ₃ ceramic and its application to Rhodamine B oxidation under solar light. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103744.	2.3	2
4	Impact of annealing on electrocaloric response in Lanthanum-modified lead zirconate titanate ceramic. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164517.	2.8	2
5	Nanostructured BaTi _{1-x} Sn _x O ₃ ferroelectric materials for electrocaloric applications and energy performance. <i>Current Applied Physics</i> , 2022, 38, 59-66.	1.1	2
6	Photoelectrochemical Enhancement of Graphene@WS ₂ Nanosheets for Water Splitting Reaction. <i>Nanomaterials</i> , 2022, 12, 1914.	1.9	4
7	A novel phosphate, K ₄ NiFe ₃ (PO ₄) ₅ : Synthesis, crystal structure and magnetic properties. <i>Journal of Solid State Chemistry</i> , 2022, 313, 123333.	1.4	4
8	Multifunctionality of rare earth doped 0.925Na _{0.5} Bi _{0.5} TiO ₃ -0.075K _{0.5} Na _{0.5} NbO ₃ ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166188.	2.8	8
9	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
10	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. <i>Physica B: Condensed Matter</i> , 2021, 603, 412760.	1.3	30
11	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. <i>World Journal of Nano Science and Engineering</i> , 2021, 11, 25-43.	0.3	2
12	Synthesis, structural refinement and physical properties of novel perovskite ceramics Ba _{1-x} BixTi _{1-x} MnxO ₃ (x = 0.3 and 0.4). <i>Materials Chemistry and Physics</i> , 2021, 262, 124302.	2.0	14
13	Effect of the BaO-Na ₂ O-Nb ₂ O ₅ -P ₂ O ₅ glass addition on microstructure and dielectric properties of BNN ceramics. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	1
14	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
15	Structural, dielectric, and ferroelectric properties of Na _{0.5} (Bi _{1-x} Ndx) _{0.5} TiO ₃ ceramics for energy storage and electrocaloric applications. <i>Ceramics International</i> , 2021, 47, 26539-26551.	2.3	23
16	The effects of N ₂ atmosphere annealing on the physical properties of BiFe _{0.5} Mn _{0.5} O ₃ ceramic. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160323.	2.8	5
17	Structural, dielectric and energy storage properties of Neodymium niobate with tetragonal tungsten bronze structure. <i>Physica B: Condensed Matter</i> , 2021, 618, 413185.	1.3	17
18	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

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19	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
20	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
21	Structural determination, dielectric and photoluminescence properties of Ba _{0.975} Ln _{0.017} (Ti _{0.95-x} Zr _x Sn _{0.05})O ₃ (Ln = Eu, Ho; x = 0.05, 0.20). <i>Physica B: Condensed Matter</i> , 2021, 623, 413365.	1.3	2
22	First-principles investigation on multiferroic properties of BiFeO ₃ -REMnO ₃ (RE = Er, Eu, Gd, Ho, La, Tb). <i>Materials Today Communications</i> , 2021, 29, 102976.	0.9	2
23	Effect of BaO-Bi ₂ O ₃ -P ₂ O ₅ glass additive on structural, dielectric and energy storage properties of BaTiO ₃ ceramics. <i>Materials Chemistry and Physics</i> , 2020, 241, 122434.	2.0	36
24	Complex impedance and Raman spectroscopy of Na _{0.5} (Bi _{1-x} Dy _x) _{0.5} TiO ₃ ceramics. <i>Ceramics International</i> , 2020, 46, 10979-10991.	2.3	46
25	Structural, optical, and dielectric properties of Bi ₂ O ₃ -K ₂ O-TiO ₂ -P ₂ O ₅ glasses and related glass-ceramics. <i>Phase Transitions</i> , 2020, 93, 1030-1047.	0.6	10
26	A new sodium- and manganese-based trivanadate NaMn ₂ V ₃ O ₁₀ : synthesis, structural and magnetic insights. <i>Monatshefte für Chemie</i> , 2020, 151, 677-684.	0.9	1
27	Microstructure and surface characterization of Ni-Cr based composites containing variable solid lubricants. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2020, 14, 219-228.	0.6	1
28	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. <i>Thin Solid Films</i> , 2020, 709, 138025.	0.8	2
29	Electrocaloric response in lanthanum-modified lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	9
30	Structural, dielectric, electrocaloric and energy storage properties of lead free Ba _{0.975} La _{0.017} (Zr _x Ti _{0.95-x})Sn _{0.05} O ₃ (x = 0.05; 0.20) ceramics. <i>Materials Chemistry and Physics</i> , 2020, 252, 123462.	2.0	22
31	Calcination temperature effect on dielectric, structural and morphology properties of BaTiO ₃ nano-structure prepared by modified sol-gel technique. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2020, 11, 015015.	0.7	5
32	Structural, optical, and dielectric properties of the BaO-TiO ₂ -P ₂ O ₅ glasses. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 1467-1479.	1.1	7
33	Magnetoelectric coupling at the NiFe ₂ O ₄ /PZT (001) interface: A density functional theory investigation. <i>Superlattices and Microstructures</i> , 2020, 139, 106401.	1.4	3
34	Evaluation of the impact of buffered peptone water composition on the discrimination between <i>Salmonella enterica</i> and <i>Escherichia coli</i> by Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3595-3604.	1.9	6
35	Chemical synthesis and magnetic properties of monodisperse cobalt ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14913-14922.	1.1	32
36	A novel alluaudite-type vanadate, Na ₂ Zn ₂ Fe(VO ₄) ₃ : Synthesis, crystal structure, characterization and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107472.	1.8	2

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37	Unconventional spin-glass-like state in AgCo ₂ V ₃ O ₁₀ , the novel magnetically frustrated material. Journal of Magnetism and Magnetic Materials, 2019, 491, 165623.	1.0	8
38	Structural, electrical and energy storage properties of Ba _{0.9} Na _{0.1} O ₂ Nb ₂ O ₅ WO ₃ P ₂ O ₅ glass-ceramics system. Materials Research Express, 2019, 6, 115203.	0.8	12
39	Synthesis and characterization of undoped and Er-doped ZnO nano-structure thin films deposited by sol-gel spin coating technique. Materials Research Express, 2019, 6, 085916.	0.8	21
40	Perovskite solar cells free of hole transport layer. Journal of Sol-Gel Science and Technology, 2019, 90, 443-449.	1.1	5
41	Modelling of the ferroelectric and energy storage properties of PbZr _{1-x} Ti _x O ₃ thin films using Monte Carlo simulation. Materials Research Express, 2019, 6, 126429.	0.8	4
42	Synthesis, Characterization, and Magnetic Properties of A ₂ Co ₂ Fe(VO ₄) ₃ (A = Ag or Na) Alluaudite-Type Vanadates. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2437-2446.	0.8	5
43	Tailoring the dielectric and energy storage properties in BaTiO ₃ /BaZrO ₃ superlattices. Materials Letters, 2019, 234, 279-282.	1.3	23
44	Phase separation and local lattice distortions analysis of charge-ordered manganese films La _{1-x} CaxMnO ₃ - by Raman spectroscopy. Superlattices and Microstructures, 2019, 127, 100-108.	1.4	4
45	Electrostatic energy storage in antiferroelectric like perovskite. Superlattices and Microstructures, 2019, 127, 43-48.	1.4	21
46	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 (VO ₄) ₆ . Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 777-782.	0.8	1
47	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
48	Structural and magnetic study of the influence of thickness on multilayer (Ni/NiO) deposits at room temperature. , 2018, , .		1
49	Structural investigation, dielectric, ferroelectric, and electrocaloric properties of lead-free Ba(1-x)CaxTi(1-x)(Li _{1/3} Nb _{2/3})xO ₃ (x=0.02 and x=0.07) ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 18640-18649.	0.8	1
50	Synthesis, Crystal Structure and Properties of a New Phosphate, Na ₂ Co ₂ Cr(PO ₄) ₃ . Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2854-2864.	1.9	11
51	Dielectric, ferroelectric, and energy storage properties in dysprosium doped sodium bismuth titanate ceramics. Ceramics International, 2018, 44, 19451-19460.	2.3	86
52	Structural, vibrational, and dielectric investigations of Ba _{0.925} Bi _{0.05} (Ti _{0.95-x} Zrx)Sn _{0.05} O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 16144-16154.	1.1	5
53	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 . Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e283-e283.	0.0	0
54	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

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55	Lead free Ba _{0.8} Ca _{0.2} Ti _{1-x} O ₃ ferroelectric ceramics exhibiting high electrocaloric properties. Journal of Applied Physics, 2017, 121, .	1.1	9
56	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
57	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.	1.0	8
58	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.	2.8	12
59	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
60	Structural and dielectrics properties of Pr ³⁺ doped BaTi _{0.925} (Yb _{0.5} Nb _{0.5}) _{0.075} O ₃ ceramics. Journal of Alloys and Compounds, 2017, 729, 858-865.	2.8	8
61	Energy storage property of Lead-free Na _{0.5} Bi _{0.5} TiO ₃ ceramic and thin film. , 2017, , .		2
62	H ₂ production by water radiolysis in presence of M/TiO ₂ (M=3D Pt; Au) nanocomposite films. , 2017, , .		0
63	Optical properties of P3HT:tributylphosphine oxide-capped CdSe nanocomposites. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6
64	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
65	Structural, dielectric and electrocaloric properties in lead-free Zr-doped Ba _{0.8} Ca _{0.2} TiO ₃ solid solution. Solid State Communications, 2016, 237-238, 49-54.	0.9	16
66	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.	2.8	12
67	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
68	Temperature influence on microstructure and optical properties of TiO ₂ /Au thin films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
69	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
70	Effect of CdSe nanoparticles incorporation on the performance of P3OT organic photovoltaic cells. Materials Science in Semiconductor Processing, 2016, 41, 343-349.	1.9	12
71	Electrocaloric effect in Ba _{0.2} Ca _{0.8} Ti _{0.95} Ge _{0.05} O ₃ determined by a new pyroelectric method. Europhysics Letters, 2015, 111, 57008.	0.7	17
72	Sequence of structural transitions in BiFeO ₃ /RMnO ₃ thin films (R=Rare earth). Ceramics International, 2015, 41, 5721-5726.	2.3	12

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73	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
74	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
75	Main Technological Advancements in Bacterial Bioluminescent Biosensors Over the Last Two Decades. Advances in Biochemical Engineering/Biotechnology, 2015, , 101-116.	0.6	5
76	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
77	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
78	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
79	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
80	Microstructure and property control in TiO ₂ Pt nanocomposite thin films. Ceramics International, 2015, 41, 443-449.	2.3	13
81	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. Superlattices and Microstructures, 2014, 71, 162-167.	1.4	11
82	Single crystal structure determination and infrared fluorescence of the system (K ₃ Sr _{1-x} Ndx) (Nd _{1-x} Sr _{1+x}) Nb ₁₀ O ₃₀ . Materials Research Bulletin, 2012, 47, 2566-2572.	2.7	3
83	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
84	Off-stoichiometry effects on BiFeO ₃ thin films. Solid State Ionics, 2011, 202, 1-5. Dielectric, ultraviolet/visible, and Raman spectroscopic investigations of the phase transition	1.3	67
85			

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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.	0.8	0
92	Observation of structural transitions and Jahn-Teller distortion in LaMnO ₃ -doped BiFeO ₃ thin films. Applied Physics Letters, 2008, 92, .	1.5	72
93	Adhesion Improvement of Poly(Phenylene-Vinylene) Substrates Induced by Argon-Oxygen Plasma Treatment. Journal of Adhesion, 1998, 66, 303-317.	1.8	17
94	Theoretical Investigation of Magnetoelectric Coupling in MFe ₂ O ₄ /PbZ _{0.5} T _{0.5} O ₃ /MFe ₂ O ₄ (M = Ni, Co) Heterostructure. Journal of Superconductivity and Novel Magnetism, 0, , 1.	0.8	4
95	Magnetically controlled insertion of cobalt ferrite nanoparticles into a porous anodic aluminum oxide (AAO) membrane. Applied Nanoscience (Switzerland), 0, , 1.	1.6	0