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	Effect of rare earth on physical properties of Na0.5Bi0.5TiO3 system: A density functional theory investigation. Journal of Rare Earths, 2022, 40, 473-481.	4.8	16
2	Analyse of structural and electrical properties of NaBa(2-x)Nd2x/3Nb5O15 solid solution with (0 â‰¤ x) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.0	2
3	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
4	Impact of annealing on electrocaloric response in Lanthanum-modified lead zirconate titanate ceramic. Journal of Alloys and Compounds, 2022, 907, 164517.	5.5	2
5	Nanostructured BaTi1-xSnxO3 ferroelectric materials for electrocaloric applications and energy performance. Current Applied Physics, 2022, 38, 59-66.	2.4	2
6	Photoelectrochemical Enhancement of Graphene@WS2 Nanosheets for Water Splitting Reaction. Nanomaterials, 2022, 12, 1914.	4.1	4
7	A novel phosphate, K4NiFe3(PO4)5: Synthesis, crystal structure and magnetic properties. Journal of Solid State Chemistry, 2022, 313, 123333.	2.9	4
8	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
9	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
10	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
11	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
12	Synthesis, structural refinement and physical properties of novel perovskite ceramics Ba1-xBixTi1-xMnxO3 (x = 0.3 and 0.4). Materials Chemistry and Physics, 2021, 262, 124302.	4.0	14
13	Effect of the BaO-Na2O-Nb2O5-P2O5 glass addition on microstructure and dielectric properties of BNN ceramics. Materials Today: Proceedings, 2021, , .	1.8	1
14	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
15	Structural, dielectric, and ferroelectric properties of Na0.5(Bi1-xNdx)0.5TiO3 ceramics for energy storage and electrocaloric applications. Ceramics International, 2021, 47, 26539-26551.	4.8	23
16	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
17	Structural, dielectric and energy storage properties of Neodymium niobate with tetragonal tungsten bronze structure. Physica B: Condensed Matter, 2021, 618, 413185.	2.7	17
18	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

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19	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
20	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
21	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
22	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
23	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
24	Complex impedance and Raman spectroscopy of Na0.5(Bi1-xDyx)0.5TiO3 ceramics. Ceramics International, 2020, 46, 10979-10991.	4.8	46
25	Structural, optical, and dielectric properties of Bi₂O₃-K₂O-TiO₂-P₂O₅ glasses and related glass-ceramics. Phase Transitions, 2020, 93, 1030-1047.	1.3	10
26	A new sodium- and manganese-based trivanadate NaMn2V3O10: synthesis, structural and magnetic insights. Monatshefte FÃ¼r Chemie, 2020, 151, 677-684.	1.8	1
27	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
28	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
29	Electrocaloric response in lanthanum-modified lead zirconate titanate ceramics. Journal of Applied Physics, 2020, 127, .	2.5	9
30	Structural, dielectric, electrocaloric and energy storage properties of lead free Ba0.975La0.017(ZrxTi0.95-x)Sn0.05O3 (x = 0.05; 0.20) ceramics. Materials Chemistry and Physics, 2020, 252, 123462.	4.0	22
31	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
32	Structural, optical, and dielectric properties of the BaOâ€“TiO2â€“P2O5 glasses. Journal of the Australian Ceramic Society, 2020, 56, 1467-1479.	1.9	7
33	Magnetoelectric coupling at the NiFe2O4/PZT (001) interface: A density functional theory investigation. Superlattices and Microstructures, 2020, 139, 106401.	3.1	3
34	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
35	Chemical synthesis and magnetic properties of monodisperse cobalt ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 14913-14922.	2.2	32
36	A novel alluaudite-type vanadate, Na2Zn2Fe(VO4)3: Synthesis, crystal structure, characterization and magnetic properties. Inorganic Chemistry Communication, 2019, 107, 107472.	3.9	2

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37	Unconventional spin-glass-like state in AgCo2V3O10, the novel magnetically frustrated material. Journal of Magnetism and Magnetic Materials, 2019, 491, 165623.	2.3	8
38	Structural, elelectrical and energy storage properties of BaOâ€“Na₂Oâ€“Nb₂O₅â€“WO₃â€“P₂O₅ glassâ€“ceramics system. Materials Research Express, 2019, 6, 115203.	1.6	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.	1.6	21
40	Perovskite solar cells free of hole transport layer. Journal of Sol-Gel Science and Technology, 2019, 90, 443-449.	2.4	5
41	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
42	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
43	Tailoring the dielectric and energy storage properties in BaTiO3/BaZrO3 superlattices. Materials Letters, 2019, 234, 279-282.	2.6	23
44	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
45	Electrostatic energy storage in antiferroelectric like perovskite. Superlattices and Microstructures, 2019, 127, 43-48.	3.1	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(VO₄)₆. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 777-782.	0.5	0
47	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
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 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
50	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
51	Dielectric, ferroelectric, and energy storage properties in dysprosium doped sodium bismuth titanate ceramics. Ceramics International, 2018, 44, 19451-19460.	4.8	86
52	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
53	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
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.	3.2	52

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55	Lead free Ba0.8Ca0.2TexTi1â^'xO3 ferroelectric ceramics exhibiting high electrocaloric properties. Journal of Applied Physics, 2017, 121, .	2.5	9
56	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
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.	2.3	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.	5.5	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.	2.3	6
60	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
61	Energy storage property of Lead-free Na_{0.5}Bi_{0.5}TiO₃ ceramic and thin film. , 2017, , .		2
62	H<inf>2</inf> production by water radiolysis in presence of M/TiO<inf>2</inf> (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.	2.3	6
64	Energy storage property in lead free gd doped Na1/2Bi1/2TiO3 ceramics. Solid State Communications, 2016, 245, 1-4.	1.9	32
65	Structural, dielectric and electrocaloric properties in lead-free Zr-doped Ba0.8Ca0.2TiO3 solid solution. Solid State Communications, 2016, 237-238, 49-54.	1.9	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.	5.5	12
67	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
68	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
69	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
70	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
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.	2.0	17
72	Sequence of structural transitions in BiFeO3â€“RMnO3 thin films (R=Rare earth). Ceramics International, 2015, 41, 5721-5726.	4.8	12

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73	Lead-free Ba0.8Ca0.2(ZrxTi1â^'x)O3 ceramics with large electrocaloric effect. Applied Physics Letters, 2015, 106, .	3.3	127
74	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
75	Main Technological Advancements in Bacterial Bioluminescent Biosensors Over the Last Two Decades. Advances in Biochemical Engineering/Biotechnology, 2015, , 101-116.	1.1	5
76	Electrocaloric effect and luminescence properties of lanthanide doped (Na1/2Bi1/2)TiO3 lead free materials. Applied Physics Letters, 2015, 107, .	3.3	56
77	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
78	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
79	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
80	Microstructure and property control in TiO2â€"Pt nanocomposite thin films. Ceramics International, 2015, 41, 443-449.	4.8	13
81	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
82	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
83	Structural, optical, and electrical properties of Nd-doped Na0.5Bi0.5TiO3. Materials Chemistry and Physics, 2012, 134, 829-833.	4.0	92
84	Off-stoichiometry effects on BiFeO3 thin films. Solid State Ionics, 2011, 202, 1-5.	2.7	67
85	Dielectric, ultraviolet/visible, and Raman spectroscopic investigations of the phase transition		

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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	Observation of structural transitions and Jahnâ€“Teller distortion in LaMnO3-doped BiFeO3 thin films. Applied Physics Letters, 2008, 92, .	3.3	72
93	Adhesion Improvement of Poly(Phenylene-Vinylene) Substrates Induced by Argon-Oxygen Plasma Treatment. Journal of Adhesion, 1998, 66, 303-317.	3.0	17
94	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
95	Magnetically controlled insertion of cobalt ferrite nanoparticles into a porous anodic aluminum oxide (AAO) membrane. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0