

Essia Hannachi

List of Publications by Year in descending order

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73
papers

2,210
citations

186265

28
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243625

44
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76
all docs

76
docs citations

76
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of ZnO addition on structural, morphological, optical, dielectric and electrical performances of BaTiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 9520-9530.	2.2	97
2	Influence of WO ₃ nanowires on structural, morphological and flux pinning ability of YBa ₂ Cu ₃ O _y superconductor. Ceramics International, 2019, 45, 2621-2628.	4.8	89
3	Investigation of structural, morphological, optical, magnetic and dielectric properties of (1-x)BaTiO ₃ /xSr _{0.92} Ca _{0.04} Mg _{0.04} Fe ₁₂ O ₁₉ composites. Journal of Magnetism and Magnetic Materials, 2020, 510, 166933.	2.3	89
4	SiO ₂ nanoparticles addition effect on microstructure and pinning properties in YBa ₂ Cu ₃ O _y . Ceramics International, 2014, 40, 4953-4962.	4.8	86
5	Study of tungsten oxide effect on the performance of BaTiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 13509-13518.	2.2	82
6	Frequency and dc bias voltage dependent dielectric properties and electrical conductivity of BaTiO ₃ SrTiO ₃ /(SiO ₂) _x nanocomposites. Ceramics International, 2019, 45, 11989-12000.	4.8	81
7	Higher intra-granular and inter-granular performances of YBCO superconductor with TiO ₂ nano-sized particles addition. Ceramics International, 2018, 44, 18836-18843.	4.8	78
8	AC susceptibility investigation of YBCO superconductor added by carbon nanotubes. Journal of Alloys and Compounds, 2020, 812, 152150.	5.5	74
9	Role of WO ₃ nanoparticles in electrical and dielectric properties of BaTiO ₃ â€“SrTiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 7786-7797.	2.2	74
10	Excess Conductivity Study in Nano-CoFe ₂ O ₄ -Added YBa ₂ Cu ₃ O ₇ â€“d and Y ₃ Ba ₅ Cu ₈ O ₁₈ â€“x Superconductors. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3001-3010.	1.8	73
11	Superconducting properties of polycrystalline YBa ₂ Cu ₃ O ₇ â€“ d prepared by sintering of ball-milled precursor powder. Ceramics International, 2014, 40, 1461-1470.	4.8	72
12	Improvement of flux pinning ability by tungsten oxide nanoparticles added in YBa ₂ Cu ₃ O _y superconductor. Ceramics International, 2019, 45, 6828-6835.	4.8	71
13	Investigation of the impact of nano-sized wires and particles TiO ₂ on Y-123 superconductor performance. Journal of Alloys and Compounds, 2019, 781, 664-673.	5.5	69
14	Synthesis, characterization, and performance assessment of new composite ceramics towards radiation shielding applications. Journal of Alloys and Compounds, 2022, 899, 163173.	5.5	43
15	Experimental investigation on the physical properties and radiation shielding efficiency of YBa ₂ Cu ₃ O _y /M@M ₃ O ₄ (M= Co, Mn) ceramic composites. Journal of Alloys and Compounds, 2022, 904, 164056.	5.5	43
16	Study on the addition of SiO ₂ nanowires to BaTiO ₃ : Structure, morphology, electrical and dielectric properties. Journal of Physics and Chemistry of Solids, 2021, 156, 110183.	4.0	40
17	Enhanced critical current density and flux pinning traits with Dy ₂ O ₃ nanoparticles added to YBa ₂ Cu ₃ O ₇ -d superconductor. Journal of Alloys and Compounds, 2021, 852, 157019.	5.5	39
18	(BaTiO ₃) _{1-x} + (Co _{0.5} Ni _{0.5} Nb _{0.06} Fe _{1.94} O ₄) _x nanocomposites: Structure, morphology, magnetic and dielectric properties. Journal of the American Ceramic Society, 2021, 104, 5648-5658.	3.8	39

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19	Li ₂ O-K ₂ O-B ₂ O ₃ -PbO glass system: Optical and gamma-ray shielding investigations. <i>Optik</i> , 2021, 247, 167792.	2.9	39
20	Comparative study of nano-sized particles CoFe ₂ O ₄ effects on superconducting properties of Y-123 and Y-358. <i>Physica B: Condensed Matter</i> , 2014, 450, 7-15.	2.7	38
21	Comparative investigation of the ball milling role against hand grinding on microstructure, transport and pinning properties of Y ₃ Ba ₅ Cu ₈ O ₁₈ and YBa ₂ Cu ₃ O ₇ . <i>Ceramics International</i> , 2018, 44, 19950-19957.	4.8	37
22	Excess conductivity and AC susceptibility studies of Y-123 superconductor added with TiO ₂ nano-wires. <i>Materials Chemistry and Physics</i> , 2019, 235, 121721.	4.0	37
23	Impact of planetary ball milling parameters on the microstructure and pinning properties of polycrystalline superconductor Y ₃ Ba ₅ Cu ₈ O _y . <i>Cryogenics</i> , 2018, 92, 5-12.	1.7	36
24	Structure, optical properties, and ionizing radiation shielding performance using Monte Carlo simulation for lead-free BTO perovskite ceramics doped with ZnO, SiO ₂ , and WO ₃ oxides. <i>Materials Science in Semiconductor Processing</i> , 2022, 145, 106629.	4.0	36
25	Magneto-resistivity and magnetization investigations of YBCO superconductor added by nano-wires and nano-particles of titanium oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8805-8813.	2.2	34
26	Magneto-conductivity fluctuation in YBCO prepared by sintering of ball-milled precursor powder. <i>Materials Chemistry and Physics</i> , 2015, 159, 185-193.	4.0	33
27	Synthesis of CdS Nanoparticles by Hydrothermal Method and Their Effects on the Electrical Properties of Bi-based Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2305-2312.	1.8	32
28	Comparative study of electrical transport and magnetic measurements of Y ₃ Ba ₅ Cu ₈ O ₁₈ and YBa ₂ Cu ₃ O ₇ compounds: intragranular and intergranular superconducting properties. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	29
29	Impact of Dy ₂ O ₃ nanoparticles additions on the properties of porous YBCO ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17572-17582.	2.2	29
30	Dissipation mechanisms in polycrystalline YBCO prepared by sintering of ball-milled precursor powder. <i>Physica B: Condensed Matter</i> , 2013, 430, 52-57.	2.7	27
31	Fluctuation induced conductivity studies in YBa ₂ Cu ₃ O _y compound embedded by superconducting nano-particles Y-deficient YBa ₂ Cu ₃ O _y : effect of silver inclusion. <i>Indian Journal of Physics</i> , 2016, 90, 1009-1018.	1.8	27
32	Flux pinning properties of YBCO added by WO ₃ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151884.	5.5	27
33	Effect of sintering conditions on the radiation shielding characteristics of YBCO superconducting ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 164, 110627.	4.0	27
34	Preparation of cerium and yttrium doped ZnO nanoparticles and tracking their structural, optical, and photocatalytic performances. <i>Journal of Rare Earths</i> , 2023, 41, 682-688.	4.8	27
35	The study on SiO ₂ nanoparticles and nanowires added YBCuO: Microstructure and normal state electrical properties. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 498, 38-44.	1.2	26
36	Excess Conductivity Investigation of Y ₃ Ba ₅ Cu ₈ O ₁₈ Superconductors Prepared by Various Parameters of Planetary Ball Milling Technique. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2339-2348.	1.8	25

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37	Bi-based superconductors prepared with addition of CoFe ₂ O ₄ for the design of a magnetic probe. <i>Cryogenics</i> , 2018, 89, 53-57.	1.7	24
38	Microstructure and Fluctuation-Induced Conductivity Analysis of Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ (Bi-2212) Nanowire Fabrics. <i>Crystals</i> , 2020, 10, 986.	2.2	24
39	Synthesis and study of structural, optical and radiation-protective peculiarities of MTiO ₃ (M = Ba, Sr) metatitanate ceramics mixed with SnO ₂ oxide. <i>Ceramics International</i> , 2021, 47, 28528-28535.	4.8	23
40	Synthesis of different (RE)BaCuO ceramics, study their structural properties, and tracking their radiation protection efficiency using Monte Carlo simulation. <i>Materials Chemistry and Physics</i> , 2022, 276, 125412.	4.0	23
41	Radiation shielding properties of bi-ferroic ceramics added with CNTs. <i>Radiation Physics and Chemistry</i> , 2022, 200, 110096.	2.8	22
42	Dimensionality and superconducting parameters of YBa ₂ Cu ₃ O _{7-δ} /(WO ₃ NPs) _x composites deduced from excess conductivity analysis. <i>Materials Chemistry and Physics</i> , 2020, 243, 122665.	4.0	18
43	Study of the structure and radiation-protective properties of yttrium barium copper oxide ceramic doped with different oxides. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161142.	5.5	18
44	BaTiO ₃ /(Co _{0.8} Ni _{0.1} Mn _{0.1} Fe _{1.9} Ce _{0.1} O ₄) composites: Analysis of the effect of Co _{0.8} Ni _{0.1} Mn _{0.1} Fe _{1.9} Ce _{0.1} O ₄ doping at different concentrations on the structural, morphological, optical, magnetic, and magnetoelectric coupling properties of BaTiO ₃ . <i>Ceramics International</i> , 2022, 48, 30499-30509.	4.8	18
45	Effect of the Ball-Milling Technique on the Transport Current Density of Polycrystalline Superconductor YBa ₂ Cu ₃ O _{7-y} -Pinning Mechanism. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 493-498.	1.8	16
46	Magnetic phases in superconducting, polycrystalline bulk FeSe samples. <i>AIP Advances</i> , 2021, 11, .	1.3	16
47	Comparative study of thermal fluctuation induced conductivity in YBa ₂ Cu ₃ O _{7-d} containing Nano-Zn _{0.95} Mn _{0.05} O and Nano-Al ₂ O ₃ particles. <i>Solid State Sciences</i> , 2020, 105, 106264.	3.2	16
48	Preparation and characterization of high-T _c (YBa ₂ Cu ₃ O _{7-$\hat{\Gamma}$}) _{1-x} /(CNTs) _x superconductors with highly boosted superconducting performances. <i>Ceramics International</i> , 2021, 47, 23539-23548.	4.8	15
49	Excess Conductivity Analysis of Polycrystalline FeSe Samples with the Addition of Ag. <i>Materials</i> , 2020, 13, 5018.	2.9	14
50	AC susceptibility, DC magnetization and superconducting properties of tungsten oxide nanowires added YBa ₂ Cu ₃ O _y . <i>Ceramics International</i> , 2019, 45, 21864-21869.	4.8	13
51	Fluctuation induced magneto-conductivity of Y ₃ Ba ₅ Cu ₈ O ₁₈ $\hat{\pm}$ _x and YBa ₂ Cu ₃ O _{7-δ} . <i>Modern Physics Letters B</i> , 2015, 29, 1550227.	1.9	12
52	Energy Dissipation Mechanisms in Polycrystalline Superconductor Y ₃ Ba ₅ Cu ₈ O _y . <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 487-492.	1.8	12
53	Intergranular properties of polycrystalline YBa ₂ Cu ₃ O _{7-$\hat{\Gamma}$} superconductor added with nanoparticles of WO ₃ and BaTiO ₃ as artificial pinning centers. <i>Ceramics International</i> , 2021, 47, 34260-34268.	4.8	12
54	Evaluation of the Radiation-Protective Properties of Bi (Pb)â€“Srâ€“Caâ€“Cuâ€“O Ceramic Prepared at Different Temperatures with Silver Inclusion. <i>Materials</i> , 2022, 15, 1034.	2.9	12

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55	Impact of tin oxide on the structural features and radiation shielding response of some ABO ₃ perovskites ceramics (A = Ca, Sr, Ba; B = Ti). Applied Physics A: Materials Science and Processing, 2021, 127, 1.		7
56	Comparative Study of the Effect of Magnetic Nanoparticle CoFe ₂ O ₄ on Fluctuation-Induced Conductivity of Y-123 and Y-358 Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 511-519.	1.8	10
57	Radiation shielding and structural features for different perovskites doped YBa ₂ Cu ₃ O _y composites. Ceramics International, 2022, 48, 18855-18865.	4.8	10
58	Flux pinning mechanisms of (YBa ₂ Cu ₃ O _{y-d}) _{1-x} /(Dy ₂ O ₃) _x superconductors (x=0.1 and 0.5 wt%). Ceramics International, 2021, 47, 6675-6682.	4.8	8
59	YBCO superconductor added with one-dimensional TiO ₂ nanostructures: Frequency dependencies of AC susceptibility, FC-ZFC magnetization, and pseudo-gap studies. Journal of Alloys and Compounds, 2021, 883, 160887.	5.5	8
60	Magnetic nanosensors and their potential applications. , 2020, , 143-155.		7
61	Magnetic nanoparticles based nanocontainers for biomedical application. , 2020, , 229-250.		6
62	Ru-based perovskites/RGO composites for applications in high performance supercapacitors. , 2021, , 335-354.		6
63	The normal state properties of nano-sized CoFe ₂ O ₄ added Bi-based superconductors in bipolaron model. AIP Conference Proceedings, 2013, , .	0.4	4
64	Effect of nanowires SiO ₂ on superconducting properties of YBa ₂ Cu ₃ O _{7-d} bulks. , 2013, , .		4
65	Nanomaterials and nanotechnology for high-performance rechargeable battery. , 2021, , 343-363.		4
66	Superconducting properties of YBCO bulk co-embedded by nano-BaTiO ₃ and WO ₃ particles. European Physical Journal Plus, 2022, 137, 1.	2.6	4
67	Intergrain connectivity in YBa ₂ Cu ₃ O _{7-d} superconductor added with Dy ₂ O ₃ nanoparticles: AC susceptibility investigation. Current Applied Physics, 2021, 27, 89-97.	2.4	3
68	Investigation of transport properties, flux pinning mechanisms and fluctuations induced conductivity of SiO ₂ nanoparticles doped YBa ₂ Cu ₃ O _{7-d} thick films on silver substrates. Ceramics International, 2022, 48, 10721-10732.	4.8	3
69	Nanomaterials for nanogenerator. , 2021, , 69-87.		2
70	ErBaCuO/PbO ceramic composites: Synthesis, physical properties, and radiation shielding performance. Ceramics International, 2022, 48, 24355-24362.	4.8	2
71	Green Chemistry and Sustainable Nanotechnological Developments: Principles, Designs, Applications, and Efficiency. , 2021, , 1-18.		1
72	Advanced Progress in Magnetoelectric Multiferroic Composites. , 2022, , 1-35.		1

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73	Magnetic Characterization of Nanomaterials. , 2022, , 177-238.		1