Essia Hannachi

List of Publications by Year
in descending order

73	2,210	186265	243625
papers	citations	28 h-index	44 g-index

76	76	76	764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of cerium and yttrium doped ZnO nanoparticles and tracking their structural, optical, and photocatalytic performances. Journal of Rare Earths, 2023, 41, 682-688.	4.8	27
2	Synthesis of different (RE)BaCuO ceramics, study their structural properties, and tracking their radiation protection efficiency using Monte Carlo simulation. Materials Chemistry and Physics, 2022, 276, 125412.	4.0	23
3	Synthesis, characterization, and performance assessment of new composite ceramics towards radiation shielding applications. Journal of Alloys and Compounds, 2022, 899, 163173.	5.5	43
4	Experimental investigation on the physical properties and radiation shielding efficiency of YBa2Cu3Oy/M@M3O4 (M= Co, Mn) ceramic composites. Journal of Alloys and Compounds, 2022, 904, 164056.	5.5	43
5	Evaluation of the Radiation-Protective Properties of Bi (Pb)â€“Srâ€“Caâ€“Cuâ€“O Ceramic Prepared at Different Temperatures with Silver Inclusion. Materials, 2022, 15, 1034.	2.9	12
6	Effect of sintering conditions on the radiation shielding characteristics of YBCO superconducting ceramics. Journal of Physics and Chemistry of Solids, 2022, 164, 110627.	4.0	27
7	Radiation shielding properties of bi-ferroic ceramics added with CNTs. Radiation Physics and Chemistry, 2022, 200, 110096.	2.8	22
8	Radiation shielding and structural features for different perovskites doped YBa2Cu3Oy composites. Ceramics International, 2022, 48, 18855-18865.	4.8	10
9	Investigation of transport properties, flux pinning mechanisms and fluctuations induced conductivity of SiO2 nanoparticles doped YBa2Cu3O7-d thick films on silver substrates. Ceramics International, 2022, 48, 10721-10732.	4.8	3
10	Structure, optical properties, and ionizing radiation shielding performance using Monte Carlo simulation for lead-free BTO perovskite ceramics doped with ZnO, SiO2, and WO3 oxides. Materials Science in Semiconductor Processing, 2022, 145, 106629.	4.0	36
11	Superconducting properties of YBCO bulk co-embedded by nano-BaTiO3 and WO3 particles. European Physical Journal Plus, 2022, 137, 1.	2.6	4
12	ErBaCuO/PbO ceramic composites: Synthesis, physical properties, and radiation shielding performance. Ceramics International, 2022, 48, 24355-24362.	4.8	2
13	Advanced Progress in Magnetoelectric Multiferroic Composites. , 2022, , 1-35.		1
14	Magnetic Characterization of Nanomaterials. , 2022, , 177-238.		1
15	BaTiO3/(Co0.8Ni0.1Mn0.1Fe1.9Ce0.1O4) composites: Analysis of the effect of Co0.8Ni0.1Mn0.1Fe1.9Ce0.1O4 doping at different concentrations on the structural, morphological, optical, magnetic, and magnetoelectric coupling properties of BaTiO3. Ceramics International, 2022, 48, 30499-30509.	4.8	18
16	Enhanced critical current density and flux pinning traits with Dy2O3 nanoparticles added to YBa2Cu3O7-d superconductor. Journal of Alloys and Compounds, 2021, 852, 157019.	5.5	39
17	Flux pinning mechanisms of (YBa2Cu3Oy-d)1â^'x/(Dy2O3)x superconductors (x=0.1 and 0.5Âwt%). Ceramics International, 2021, 47, 6675-6682.	4.8	8
18	Ru-based perovskites/RGO composites for applications in high performance supercapacitors. , 2021, , 335-354.		6

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19	Magnetic phases in superconducting, polycrystalline bulk FeSe samples. AIP Advances, 2021, 11, .	1.3	16
20	(BaTiO₃)_{1â€x} + (Co_{0.5}Ni_{0.5}Nb_{0.06}Fe_{1.94}O₄)_x nanocomposites: Structure, morphology, magnetic and dielectric properties. Journal of the American Ceramic Society, 2021, 104, 5648-5658.	3.8	39
21	Intergrain connectivity in YBa2Cu3O7-Î´ superconductor added with Dy2O3 nanoparticles: AC susceptibility investigation. Current Applied Physics, 2021, 27, 89-97.	2.4	3
22	Preparation and characterization of high-Tc (YBa2Cu3O7-Î´)1-x/(CNTs)x superconductors with highly boosted superconducting performances. Ceramics International, 2021, 47, 23539-23548.	4.8	15
23	Intergranular properties of polycrystalline YBa2Cu3O7â^'Î´ superconductor added with nanoparticles of WO3 and BaTiO3 as artificial pinning centers. Ceramics International, 2021, 47, 34260-34268.	4.8	12
24	Study on the addition of SiO2 nanowires to BaTiO3: Structure, morphology, electrical and dielectric properties. Journal of Physics and Chemistry of Solids, 2021, 156, 110183.	4.0	40
25	Synthesis and study of structural, optical and radiation-protective peculiarities of MTiO3 (M = Ba, Sr) metatitanate ceramics mixed with SnO2 oxide. Ceramics International, 2021, 47, 28528-28535.	4.8	23
26	YBCO superconductor added with one-dimensional TiO2 nanostructures: Frequency dependencies of AC susceptibility, FC-ZFC magnetization, and pseudo-gap studies. Journal of Alloys and Compounds, 2021, 883, 160887.	5.5	8
27	Li2O-K2O-B2O3-PbO glass system: Optical and gamma-ray shielding investigations. Optik, 2021, 247, 167792.	2.9	39
28	Study of the structure and radiation-protective properties of yttrium barium copper oxide ceramic doped with different oxides. Journal of Alloys and Compounds, 2021, 885, 161142.	5.5	18
29	Nanomaterials for nanogenerator. , 2021, , 69-87.		2
30	Nanomaterials and nanotechnology for high-performance rechargeable battery. , 2021, , 343-363.		4
31	Green Chemistry and Sustainable Nanotechnological Developments: Principles, Designs, Applications, and Efficiency. , 2021, , 1-18.		1
32	Impact of tin oxide on the structural features and radiation shielding response of some ABO3 perovskites ceramics (Aâ€‰=â€‰Ca, Sr, Ba; Bâ€‰=â€‰Ti). Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.8	71
33	AC susceptibility investigation of YBCO superconductor added by carbon nanotubes. Journal of Alloys and Compounds, 2020, 812, 152150.	5.5	74
34	Dimensionality and superconducting parameters of YBa2Cu3O7â^'d/(WO3 NPs)x composites deduced from excess conductivity analysis. Materials Chemistry and Physics, 2020, 243, 122665.	4.0	18
35	Excess Conductivity Analysis of Polycrystalline FeSe Samples with the Addition of Ag. Materials, 2020, 13, 5018.	2.9	14
36	Microstructure and Fluctuation-Induced Conductivity Analysis of Bi2Sr2CaCu2O8+Î´ (Bi-2212) Nanowire Fabrics. Crystals, 2020, 10, 986.	2.2	24

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37	Role of WO3 nanoparticles in electrical and dielectric properties of BaTiO3â€“SrTiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 7786-7797.	2.2	74
38	Magnetic nanosensors and their potential applications. , 2020, , 143-155.		7
39	Magnetic nanoparticles based nanocontainers for biomedical application. , 2020, , 229-250.		6
40	Investigation of structural, morphological, optical, magnetic and dielectric properties of (1-x)BaTiO3/xSr0.92Ca0.04Mg0.04Fe12O19 composites. Journal of Magnetism and Magnetic Materials, 2020, 510, 166933.	2.3	89
41	Comparative study of thermal fluctuation induced conductivity in YBa2Cu3O7-d containing Nano-Zn0.95Mn0.05O and Nano-Al2O3 particles. Solid State Sciences, 2020, 105, 106264.	3.2	16
42	Comparative Study of the Effect of Magnetic Nanoparticle CoFe2O4 on Fluctuation-Induced Conductivity of Y-123 and Y-358 Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 511-519.	1.8	10
43	AC susceptibility, DC magnetization and superconducting properties of tungsten oxide nanowires added YBa2Cu3Oy. Ceramics International, 2019, 45, 21864-21869.	4.8	13
44	Impact of Dy2O3 nanoparticles additions on the properties of porous YBCO ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 17572-17582.	2.2	29
45	Flux pinning properties of YBCO added by WO3 nanoparticles. Journal of Alloys and Compounds, 2019, 810, 151884.	5.5	27
46	Study of tungsten oxide effect on the performance of BaTiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 13509-13518.	2.2	82
47	Excess conductivity and AC susceptibility studies of Y-123 superconductor added with TiO2 nano-wires. Materials Chemistry and Physics, 2019, 235, 121721.	4.0	37
48	Frequency and dc bias voltage dependent dielectric properties and electrical conductivity of BaTiO3SrTiO3/(SiO2)x nanocomposites. Ceramics International, 2019, 45, 11989-12000.	4.8	81
49	Magneto-resistivity and magnetization investigations of YBCO superconductor added by nano-wires and nano-particles of titanium oxide. Journal of Materials Science: Materials in Electronics, 2019, 30, 8805-8813.	2.2	34
50	Impact of ZnO addition on structural, morphological, optical, dielectric and electrical performances of BaTiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 9520-9530.	2.2	97
51	Improvement of flux pinning ability by tungsten oxide nanoparticles added in YBa2Cu3Oy superconductor. Ceramics International, 2019, 45, 6828-6835.	4.8	71
52	Influence of WO3 nanowires on structural, morphological and flux pinning ability of YBa2Cu3Oy superconductor. Ceramics International, 2019, 45, 2621-2628.	4.8	89
53	Investigation of the impact of nano-sized wires and particles TiO2 on Y-123 superconductor performance. Journal of Alloys and Compounds, 2019, 781, 664-673.	5.5	69
54	Comparative study of electrical transport and magnetic measurements of Y3Ba5Cu8O18Â±Î´ and YBa2Cu3O7â^'Î´ compounds: intragranular and intergranular superconducting properties. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	29

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55	Excess Conductivity Investigation of Y3Ba5Cu8O18Â±Î´ Superconductors Prepared by Various Parameters of Planetary Ball Milling Technique. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2339-2348.	1.8	25
56	Impact of planetary ball milling parameters on the microstructure and pinning properties of polycrystalline superconductor Y3Ba5Cu8Oy. Cryogenics, 2018, 92, 5-12.	1.7	36
57	Synthesis of CdS Nanoparticles by Hydrothermal Method and Their Effects on the Electrical Properties of Bi-based Superconductors. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2305-2312.	1.8	32
58	Bi-based superconductors prepared with addition of CoFe2O4 for the design of a magnetic probe. Cryogenics, 2018, 89, 53-57.	1.7	24
59	Comparative investigation of the ball milling role against hand grinding on microstructure, transport and pinning properties of Y3Ba5Cu8O18Â±Î´ and YBa2Cu3O7-Î´. Ceramics International, 2018, 44, 19950-19957.	4.8	37
60	Higher intra-granular and inter-granular performances of YBCO superconductor with TiO2 nano-sized particles addition. Ceramics International, 2018, 44, 18836-18843.	4.8	78
61	Fluctuation induced conductivity studies in YBa2Cu3Oy compound embedded by superconducting nano-particles Y-deficient YBa2Cu3Oy: effect of silver inclusion. Indian Journal of Physics, 2016, 90, 1009-1018.	1.8	27
62	Fluctuation induced magneto-conductivity of Y3Ba5Cu8O18Â±x and YBa2Cu3O7â˜'d. Modern Physics Letters B, 2015, 29, 1550227.	1.9	12
63	Excess Conductivity Study in Nano-CoFe2O4-Added YBa2Cu3O7â˜'d and Y3Ba5Cu8O18Â±x Superconductors. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3001-3010.	1.8	73
64	Magneto-conductivity fluctuation in YBCO prepared by sintering of ball-milled precursor powder. Materials Chemistry and Physics, 2015, 159, 185-193.	4.0	33
65	Energy Dissipation Mechanisms in Polycrystalline Superconductor Y3Ba5Cu8O y. Journal of Superconductivity and Novel Magnetism, 2015, 28, 487-492.	1.8	12
66	Effect of the Ball-Milling Technique on the Transport Current Density of Polycrystalline Superconductor YBa 2 Cu 3 O y -Pinning Mechanism. Journal of Superconductivity and Novel Magnetism, 2015, 28, 493-498.	1.8	16
67	The study on SiO2 nanoparticles and nanowires added YBCuO: Microstructure and normal state electrical properties. Physica C: Superconductivity and Its Applications, 2014, 498, 38-44.	1.2	26
68	SiO2 nanoparticles addition effect on microstructure and pinning properties in YBa2Cu3Oy. Ceramics International, 2014, 40, 4953-4962.	4.8	86
69	Superconducting properties of polycrystalline YBa2Cu3O7 â€“ d prepared by sintering of ball-milled precursor powder. Ceramics International, 2014, 40, 1461-1470.	4.8	72
70	Comparative study of nano-sized particles CoFe2O4 effects on superconducting properties of Y-123 and Y-358. Physica B: Condensed Matter, 2014, 450, 7-15.	2.7	38
71	Dissipation mechanisms in polycrystalline YBCO prepared by sintering of ball-milled precursor powder. Physica B: Condensed Matter, 2013, 430, 52-57.	2.7	27
72	The normal state properties of nano-sized CoFe[sub 2]O[sub 4] added Bi-based superconductors in bipolaron model. AIP Conference Proceedings, 2013, , .	0.4	4

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73	Effect of nanowires SiO[sub 2] on superconducting properties of YBa[sub 2]Cu[sub 3]O[sub 7â^'d] bulks. , 2013, , .		4