

Mahmoud F Zawrah

List of Publications by Year in descending order

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101
papers

2,681
citations

126708

33
h-index

223531

46
g-index

103
all docs

103
docs citations

103
times ranked

2085
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of bagasse waste for production of AC and AC/Fe ₃ O ₄ composite for removal of dye from wastewater. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1127-1141.	2.9	3
2	Utilization of white-cement kiln dust in presence of raw/waste materials for production of alkali-activated products. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 8573-8586.	1.8	2
3	Effect of low-rate firing on physico-mechanical properties of unfoamed and foamed geopolymers prepared from waste clays. <i>Ceramics International</i> , 2022, 48, 11330-11337.	2.3	11
4	Fabrication of Al/Al ₂ O ₃ / SiC/graphene hybrid nanocomposites from Al-dross by powder metallurgy: Sinterability, mechanical and electrical properties. <i>Ceramics International</i> , 2022, 48, 20923-20932.	2.3	17
5	Alumina/zirconia ceramic membranes fabricated by temperature induced forming technique. <i>Ceramics International</i> , 2022, 48, 26460-26465.	2.3	4
6	Recycling of aluminum dross and silica fume wastes for production of mullite-containing ceramics: Powder preparation, sinterability and properties. <i>Ceramics International</i> , 2022, 48, 31661-31671.	2.3	22
7	Removal of Anionic and Cationic Dyes from Wastewater Using Activated Carbon from Palm Tree Fiber Waste. <i>Processes</i> , 2021, 9, 416.	1.3	23
8	Utilization of granite sludge for production of cordierite ceramics by direct coagulation casting. <i>Ceramics International</i> , 2021, 47, 20187-20195.	2.3	15
9	Preparation and characterization of SiO ₂ @C nanocomposites from rice husk for removal of heavy metals from aqueous solution. <i>Ceramics International</i> , 2021, 47, 23240-23248.	2.3	10
10	Fabrication and characterization of non-foamed and foamed geopolymers from industrial waste clays. <i>Ceramics International</i> , 2021, 47, 29320-29327.	2.3	14
11	Recycling and Utilization of some Waste Clays for Production of Sintered Ceramic Bodies. <i>Silicon</i> , 2020, 12, 1035-1042.	1.8	9
12	Utilization of leached MnO ₂ for the mechanosynthesis of nano LaxCa _{1-x} MnO ₃ and LaxSr _{1-x} MnO ₃ : Sinterability and properties. <i>Ceramics International</i> , 2020, 46, 3433-3442.	2.3	6
13	In-situ formation of geopolymer foams through addition of silica fume: Preparation and sinterability. <i>Materials Chemistry and Physics</i> , 2020, 239, 121998.	2.0	33
14	Phase composition, sinterability and bioactivity of amorphous nano-CaO-SiO ₂ -CuO powder synthesized by sol-gel technique. <i>Ceramics International</i> , 2020, 46, 24462-24471.	2.3	24
15	Fabrication of Al ₂ O ₃ -ZrO ₂ -Ni composites with improved toughness using nano powders prepared by mechanical alloying. <i>Ceramics International</i> , 2020, 46, 19519-19529.	2.3	23
16	Effect of nano sand on the properties of metakaolin-based geopolymer: Study on its low rate sintering. <i>Construction and Building Materials</i> , 2020, 246, 118486.	3.2	37
17	Synthesis and characterization of nano Mn ₃ O ₄ and LiMn ₂ O ₄ spinel from manganese ore and pure materials. <i>Ceramics International</i> , 2020, 46, 17514-17522.	2.3	12
18	In-situ formation of composite having hard outer layer based on aluminum dross reinforced by SiC and TiO ₂ . <i>Construction and Building Materials</i> , 2020, 248, 118638.	3.2	12

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19	Effect of Si, Al ₂ O ₃ , and aluminum dross on sinterability and properties of Ni-Ti metal matrix composites prepared by powder metallurgy. <i>Materials Research Express</i> , 2019, 6, 096588.	0.8	6
20	Effect of SiC content on microstructure, mechanical and electrical properties of sintered Al-20Si-xSiC nanocomposites fabricated by mechanical alloying. <i>Materials Research Express</i> , 2019, 6, 125014.	0.8	20
21	Review on nanocomposites fabricated by mechanical alloying. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1047-1058.	2.4	38
22	Synthesis, characterization and sinterability of pure and Ni-doped nano layered double hydroxides from aluminum dross. <i>Ceramics International</i> , 2019, 45, 17598-17610.	2.3	18
23	Fabrication, sinterability and characterization of non-colored and colored geopolymers with improved properties. <i>Materials Research Express</i> , 2019, 6, 075205.	0.8	10
24	Hydrothermal synthesis, sintering and characterization of nano La-manganite perovskite doped with Ca or Sr. <i>Ceramics International</i> , 2019, 45, 4894-4901.	2.3	24
25	Preparation and characterization of nano SiO ₂ @CeO ₂ extracted from blast furnace slag and uranium extraction waste for wastewater treatment. <i>Ceramics International</i> , 2019, 45, 7309-7317.	2.3	34
26	Reverse Precipitation Synthesis of ~ 10 nm Magnetite Nanoparticles and Their Application for Removal of Heavy Metals from Water. <i>Silicon</i> , 2019, 11, 85-104.	1.8	18
27	Recycling of LCW produced from water plants for synthesizing of nano FeO(OH), Al(OH) ₃ , and layered double hydroxide: Effect of heat-treatment. <i>Ceramics International</i> , 2018, 44, 9950-9957.	2.3	15
28	Physico-mechanical and photoluminescence properties of EuxMg _{2-1-x} SiO ₄ system sintered under different conditions. <i>Ceramics International</i> , 2018, 44, 6500-6507.	2.3	5
29	Effect of processing techniques on properties of porous TiO ₂ and TiO ₂ /hydroxyapatite composites. <i>Ceramics International</i> , 2018, 44, 8643-8649.	2.3	14
30	Effect of Nano-ZrO ₂ on the Properties of Al-Al ₂ O ₃ Nanocomposites Prepared by Mechanical Alloying. <i>Silicon</i> , 2018, 10, 1523-1531.	1.8	9
31	Development of low thermal expansion mono crystalline Sr-feldspar phase via Sr-cordierite ceramic/borosilicate glass composite. <i>Ceramics International</i> , 2018, 44, 13720-13726.	2.3	9
32	In-situ formation of Al ₂ O ₃ /Al core-shell from waste material: Production of porous composite improved by graphene. <i>Ceramics International</i> , 2018, 44, 10693-10699.	2.3	37
33	Microwave combustion synthesis of MgO-Al ₂ O ₃ -SiO ₂ -ZrO ₂ ceramics: Sinterability, microstructure and mechanical properties. <i>Materials Chemistry and Physics</i> , 2018, 212, 78-86.	2.0	4
34	Mechanical Alloying and Sintering of a Ni/10wt.%Al ₂ O ₃ Nanocomposite and its Characterization. <i>Silicon</i> , 2018, 10, 1351-1359.	1.8	18
35	Improvement of physical and mechanical properties of geopolymer through addition of zircon. <i>Materials Chemistry and Physics</i> , 2018, 217, 90-97.	2.0	35
36	Fabrication of Porous TiO ₂ Ceramics Using Corn Starch and Graphite as Pore Forming Agents. <i>InterCeram: International Ceramic Review</i> , 2018, 67, 30-35.	0.2	3

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37	Organo Modified Nanoclay/Sawdust Mixtures for Hydrocarbon Removal from Water. <i>Silicon</i> , 2018, 10, 2055-2062.	1.8	5
38	Sinterability, physico-mechanical, electrical and magnetic properties of $\text{Co}_x\text{Mg}_{1-x}\text{Al}_2\text{O}_4$ synthesized by microwave combustion method. <i>Ceramics International</i> , 2018, 44, 21525-21529.	2.3	9
39	Optimization of Slag Content and Properties Improvement of Metakaolin-slag Geopolymer Mixes. <i>Open Materials Science Journal</i> , 2018, 12, 40-57.	0.2	31
40	Improvement of wettability, sinterability, mechanical and electrical properties of Al_2O_3 -Ni nanocomposites prepared by mechanical alloying. <i>Ceramics International</i> , 2017, 43, 3576-3582.	2.3	61
41	Synthesis of anatase nano wire and its application as a functional top layer for alumina membrane. <i>Ceramics International</i> , 2017, 43, 17104-17110.	2.3	6
42	Sintering and properties of borosilicate glass/Li-Na-K-feldspar composites for electronic applications. <i>Ceramics International</i> , 2017, 43, 15068-15073.	2.3	20
43	Effect of nano ZrO_2 on strengthening and electrical properties of Cu-matrix nanocomposites prepared by mechanical alloying. <i>Ceramics International</i> , 2017, 43, 12698-12704.	2.3	67
44	Assessment of electric arc furnace dust: Powder characterization and its sinterability as ceramic product. <i>Ceramics International</i> , 2017, 43, 12939-12947.	2.3	22
45	Preparation of Porous Forsterite Ceramic Using Waste Silica Fumes by the Starch Consolidation Method. <i>InterCeram: International Ceramic Review</i> , 2016, 65, 174-178.	0.2	3
46	Effect of milling parameters on sinterability, mechanical and electrical properties of Cu-4wt.% ZrO_2 nanocomposite. <i>Materials Chemistry and Physics</i> , 2016, 181, 26-32.	2.0	36
47	Recycling and utilization assessment of waste fired clay bricks (Grog) with granulated blast-furnace slag for geopolymer production. <i>Chemical Engineering Research and Design</i> , 2016, 103, 237-251.	2.7	158
48	Photothermal therapeutic effect of PEGylated gold nano-semicubes in chemically-induced skin cancer in mice. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 21-29.	1.7	19
49	Mobility and Fate of Pollutants in the Aquifer System of the Northwestern Suez Gulf, Egypt. <i>Reviews of Environmental Contamination and Toxicology</i> , 2016, 240, 169-195.	0.7	4
50	Potential of rod, sphere and semi-cube shaped gold nanoparticles to induce cytotoxicity and genotoxicity in human blood lymphocytes in vitro. <i>European Journal of Nanomedicine</i> , 2015, 7, .	0.6	3
51	Detection of Cyto- and Genotoxicity of Rod-Shaped Gold Nanoparticles in Human Blood Lymphocytes Using Comet-FISH. <i>Cytologia</i> , 2015, 80, 173-181.	0.2	10
52	Synthesis and Properties of Hydroxyapatite Nanorods. <i>InterCeram: International Ceramic Review</i> , 2015, 64, 358-362.	0.2	3
53	Investigation on the properties of rubber composites containing modified clay. <i>Pigment and Resin Technology</i> , 2015, 44, 131-142.	0.5	12
54	Alumina-zircon refractory materials for lining of the basin of glass furnaces: Effect of processing technique and TiO_2 addition. <i>Ceramics International</i> , 2015, 41, 1623-1629.	2.3	14

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55	HPLC Evaluation of PAHS Polluted Soil in Coastal Petroleum Refinery Site Northwestern Suez Gulf, Egypt. <i>Research Journal of Environmental Toxicology</i> , 2015, 9, 251-260.	1.0	4
56	FTIR Study of Nanostructure Perovskite BaTiO ₃ Doped with Both Fe ³⁺ and Ni ²⁺ Ions Prepared by Sol-Gel Technique. <i>Acta Physica Polonica A</i> , 2014, 126, 1318-1321.	0.2	37
57	Effect of CTAB as a foaming agent on the properties of alumina ceramic membranes. <i>Ceramics International</i> , 2014, 40, 5299-5305.	2.3	18
58	Nano Mg _{1-x} Ni _x Al ₂ O ₄ spinel pigments for advanced applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 125, 353-358.	2.0	26
59	Mechanical alloying, sintering and characterization of Al ₂ O ₃ -20wt% Cu nanocomposite. <i>Ceramics International</i> , 2014, 40, 31-38.	2.3	55
60	Effect of surfactant types and their concentration on the structural characteristics of nanoclay. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 616-623.	2.0	61
61	GC estimation of organic hydrocarbons that threaten shallow Quaternary sandy aquifer Northwestern Gulf of Suez, Egypt. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 7579-7591.	1.3	5
62	Facile One-Pot Fabrication of Hollow Porous Silica Nanoparticles. <i>Chemistry - A European Journal</i> , 2014, 20, 673-677.	1.7	22
63	Sintering and technological properties of alumina/zirconia/nano-TiO ₂ ceramic composites. <i>Materials Research Bulletin</i> , 2013, 48, 1411-1414.	2.7	40
64	Preparation by mechanical alloying, characterization and sintering of Cu-20 wt.% Al ₂ O ₃ nanocomposites. <i>Materials & Design</i> , 2013, 46, 485-490.	5.1	68
65	Synthesis and characterization of SiC and SiC/Si ₃ N ₄ composite nano powders from waste material. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 250-256.	6.5	48
66	In situ formation of sintered cordierite-mullite nano-micro composites by utilizing of waste silica fume. <i>Materials Research Bulletin</i> , 2012, 47, 2662-2667.	2.7	48
67	Effect of Si-graphite-Al-metal addition on low- and ultra-low cement bauxite castables. <i>Ceramics International</i> , 2012, 38, 3857-3862.	2.3	6
68	Tailoring the Relative Si ₃ N ₄ and SiC Contents in Si ₃ N ₄ /SiC Nanopowders through Carbothermic Reduction and Nitridation of Silica Fume. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 291-303.	1.1	11
69	Fabrication of Al ₂ O ₃ -20vol.% Al nanocomposite powders using high energy milling and their sinterability. <i>Materials Research Bulletin</i> , 2012, 47, 655-661.	2.7	43
70	Synthesis of carbon-free Si ₃ N ₄ /SiC nanopowders using silica fume. <i>Ceramics International</i> , 2011, 37, 3477-3487.	2.3	35
71	Synthesis, hydration and sintering of calcium aluminate nanopowder for advanced applications. <i>Comptes Rendus Chimie</i> , 2011, 14, 611-618.	0.2	28
72	Tailoring the Relative Si ₃ N ₄ and SiC Contents in Si ₃ N ₄ /SiC Nanopowders through Carbothermic Reduction and Nitridation of Silica Fume. <i>International Journal of Applied Ceramic Technology</i> , 2011, 9, n/a-n/a.	1.1	5

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73	Synthesis of Silicon Carbide Nanopowder Using Silica Fume. Journal of the American Ceramic Society, 2010, 93, 3159-3167.	1.9	52
74	Densification, phase composition, and properties of borosilicate glass composites containing nano-alumina and titania. Journal of Materials Science: Materials in Electronics, 2009, 20, 637-643.	1.1	16
75	In situ formation of zirconia-alumina-spinel-mullite ceramic composites. Ceramics International, 2008, 34, 429-434.	2.3	37
76	Synthesis and characterization of WC-Co nanocomposites by novel chemical method. Ceramics International, 2007, 33, 155-161.	2.3	55
77	Effect of zircon additions on low and ultra-low cement alumina and bauxite castables. Ceramics International, 2007, 33, 751-759.	2.3	29
78	Synthesis and characterization of nano MgAl ₂ O ₄ spinel by the co-precipitated method. Ceramics International, 2007, 33, 969-978.	2.3	91
79	Synthesis and characterization of calcium aluminate nanoceramics for new applications. Ceramics International, 2007, 33, 1419-1425.	2.3	46
80	Mechanical properties of SiC ceramics by ultrasonic nondestructive technique and its bioactivity. Materials Chemistry and Physics, 2007, 106, 330-337.	2.0	40
81	In situ formation of Al ₂ O ₃ -SiC-mullite from Al-matrix composites. Ceramics International, 2006, 32, 21-28.	2.3	39
82	Densification and properties of glass/cordierite composites. Ceramics International, 2005, 31, 383-389.	2.3	48
83	High alumina castables reinforced with SiC. Advances in Applied Ceramics, 2005, 104, 312-317.	0.6	7
84	Self-formed mullite containing refractory barium silicate cements and their castable applications. Advances in Applied Ceramics, 2004, 103, 223-226.	0.4	4
85	Characterisation of borosilicate glass matrix composites reinforced with SiC or ZrO ₂ . Advances in Applied Ceramics, 2004, 103, 165-170.	0.4	7
86	Investigation of lattice constant, sintering and properties of nano Mg-Al spinels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 382, 362-370.	2.6	58
87	Thermal stability of nc-TiN/a-BN/a-TiB ₂ nanocomposite coatings deposited by plasma chemical vapor deposition. Thin Solid Films, 2004, 467, 133-139.	0.8	72
88	Liquid-phase sintering of SiC in presence of CaO. Ceramics International, 2004, 30, 721-725.	2.3	47
89	Sinterability, microstructure and properties of glass/ceramic composites. Ceramics International, 2003, 29, 251-257.	2.3	65
90	Microstructure and hardness of nanostructured Al-Fe-Cr-Ti alloys through mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 355, 37-49.	2.6	52

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91	Effect of Cr ₂ O ₃ on sinterability and properties of mullite-spinel composites. <i>Advances in Applied Ceramics</i> , 2003, 102, 114-118.	0.4	5
92	Utilisation of Egyptian industrial waste material in manufacture of refractory cement. <i>Advances in Applied Ceramics</i> , 2002, 101, 225-228.	0.4	11
93	Bauxite based low and ultralow cement castables. <i>Advances in Applied Ceramics</i> , 2002, 101, 165-168.	0.4	12
94	Synthesis and characterisation of nanocrystalline MgAl ₂ O ₄ ceramic powders by use of molten salts. <i>Advances in Applied Ceramics</i> , 2002, 101, 71-74.	0.4	42
95	Microstructure and mechanical characteristics of laser-alloyed alumina ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 332, 167-173.	2.6	29
96	Effect of cristobalite formation on sinterability, microstructure and properties of glass/ceramic composites. <i>Ceramics International</i> , 2002, 28, 123-130.	2.3	99
97	Improvement of physico-mechanical properties of self-forming MA spinel castables. <i>Advances in Applied Ceramics</i> , 2001, 100, 110-114.	0.4	4
98	Phase evolution and hydraulic properties of low cement castables matrixes. <i>Advances in Applied Ceramics</i> , 2001, 100, 171-176.	0.4	5
99	Preparation and characterization of barium containing refractory materials. <i>Ceramics International</i> , 2001, 27, 309-314.	2.3	10
100	Characterization and sinterability of chemically precipitated phosphate-bearing magnesia grains. <i>Ceramics International</i> , 2001, 27, 523-529.	2.3	5
101	Effect of mullite formation on properties of refractory castables. <i>Ceramics International</i> , 2001, 27, 689-694.	2.3	56