

# Mahmoud F Zawrah

## List of Publications by Year in descending order

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101  
papers

2,681  
citations

126907  
33  
h-index

223800  
46  
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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 <sub>3</sub> O <sub>4</sub> composite for removal of dye from wastewater. Biomass Conversion and Biorefinery, 2023, 13, 1127-1141.	4.6	3
2	Utilization of white-cement kiln dust in presence of raw/waste materials for production of alkali-activated products. International Journal of Environmental Science and Technology, 2022, 19, 8573-8586.	3.5	2
3	Effect of low-rate firing on physico-mechanical properties of unfoamed and foamed geopolymers prepared from waste clays. Ceramics International, 2022, 48, 11330-11337.	4.8	11
4	Fabrication of Al/Al <sub>2</sub> O <sub>3</sub> / SiC/graphene hybrid nanocomposites from Al-dross by powder metallurgy: Sinterability, mechanical and electrical properties. Ceramics International, 2022, 48, 20923-20932.	4.8	17
5	Alumina/zirconia ceramic membranes fabricated by temperature induced forming technique. Ceramics International, 2022, 48, 26460-26465.	4.8	4
6	Recycling of aluminum dross and silica fume wastes for production of mullite-containing ceramics: Powder preparation, sinterability and properties. Ceramics International, 2022, 48, 31661-31671.	4.8	22
7	Removal of Anionic and Cationic Dyes from Wastewater Using Activated Carbon from Palm Tree Fiber Waste. Processes, 2021, 9, 416.	2.8	23
8	Utilization of granite sludge for production of cordierite ceramics by direct coagulation casting. Ceramics International, 2021, 47, 20187-20195.	4.8	15
9	Preparation and characterization of SiO <sub>2</sub> @C nanocomposites from rice husk for removal of heavy metals from aqueous solution. Ceramics International, 2021, 47, 23240-23248.	4.8	10
10	Fabrication and characterization of non-foamed and foamed geopolymers from industrial waste clays. Ceramics International, 2021, 47, 29320-29327.	4.8	14
11	Recycling and Utilization of some Waste Clays for Production of Sintered Ceramic Bodies. Silicon, 2020, 12, 1035-1042.	3.3	9
12	Utilization of leached MnO <sub>2</sub> for the mechanosynthesis of nano LaxCa <sub>1-x</sub> MnO <sub>3</sub> and LaxSr <sub>1-x</sub> MnO <sub>3</sub> : Sinterability and properties. Ceramics International, 2020, 46, 3433-3442.	4.8	6
13	In-situ formation of geopolymer foams through addition of silica fume: Preparation and sinterability. Materials Chemistry and Physics, 2020, 239, 121998.	4.0	33
14	Phase composition, sinterability and bioactivity of amorphous nano-CaO-SiO <sub>2</sub> -CuO powder synthesized by sol-gel technique. Ceramics International, 2020, 46, 24462-24471.	4.8	24
15	Fabrication of Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -Ni composites with improved toughness using nano powders prepared by mechanical alloying. Ceramics International, 2020, 46, 19519-19529.	4.8	23
16	Effect of nano sand on the properties of metakaolin-based geopolymer: Study on its low rate sintering. Construction and Building Materials, 2020, 246, 118486.	7.2	37
17	Synthesis and characterization of nano Mn <sub>3</sub> O <sub>4</sub> and LiMn <sub>2</sub> O <sub>4</sub> spinel from manganese ore and pure materials. Ceramics International, 2020, 46, 17514-17522.	4.8	12
18	In-situ formation of composite having hard outer layer based on aluminum dross reinforced by SiC and TiO <sub>2</sub> . Construction and Building Materials, 2020, 248, 118638.	7.2	12

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19	Effect of Si, Al <sub>2</sub> O <sub>3</sub> , 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.	1.6	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.	1.6	20
21	Review on nanocomposites fabricated by mechanical alloying. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1047-1058.	4.9	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.	4.8	18
23	Fabrication, sinterability and characterization of non-colored and colored geopolymers with improved properties. <i>Materials Research Express</i> , 2019, 6, 075205.	1.6	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.	4.8	24
25	Preparation and characterization of nano SiO <sub>2</sub> @CeO <sub>2</sub> extracted from blast furnace slag and uranium extraction waste for wastewater treatment. <i>Ceramics International</i> , 2019, 45, 7309-7317.	4.8	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.	3.3	18
27	Recycling of LCW produced from water plants for synthesizing of nano FeO(OH), Al(OH) <sub>3</sub> , and layered double hydroxide: Effect of heat-treatment. <i>Ceramics International</i> , 2018, 44, 9950-9957.	4.8	15
28	Physico-mechanical and photoluminescence properties of EuxMg <sub>2</sub> -xSiO <sub>4</sub> system sintered under different conditions. <i>Ceramics International</i> , 2018, 44, 6500-6507.	4.8	5
29	Effect of processing techniques on properties of porous TiO <sub>2</sub> and TiO <sub>2</sub> /hydroxyapatite composites. <i>Ceramics International</i> , 2018, 44, 8643-8649.	4.8	14
30	Effect of Nano-ZrO <sub>2</sub> on the Properties of Al-Al <sub>2</sub> O <sub>3</sub> Nanocomposites Prepared by Mechanical Alloying. <i>Silicon</i> , 2018, 10, 1523-1531.	3.3	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.	4.8	9
32	In-situ formation of Al <sub>2</sub> O <sub>3</sub> /Al core-shell from waste material: Production of porous composite improved by graphene. <i>Ceramics International</i> , 2018, 44, 10693-10699.	4.8	37
33	Microwave combustion synthesis of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -ZrO <sub>2</sub> ceramics: Sinterability, microstructure and mechanical properties. <i>Materials Chemistry and Physics</i> , 2018, 212, 78-86.	4.0	4
34	Mechanical Alloying and Sintering of a Ni/10wt.%Al <sub>2</sub> O <sub>3</sub> Nanocomposite and its Characterization. <i>Silicon</i> , 2018, 10, 1351-1359.	3.3	18
35	Improvement of physical and mechanical properties of geopolymer through addition of zircon. <i>Materials Chemistry and Physics</i> , 2018, 217, 90-97.	4.0	35
36	Fabrication of Porous TiO <sub>2</sub> 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. Silicon, 2018, 10, 2055-2062.	3.3	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. Ceramics International, 2018, 44, 21525-21529.	4.8	9
39	Optimization of Slag Content and Properties Improvement of Metakaolin-slag Geopolymer Mixes. Open Materials Science Journal, 2018, 12, 40-57.	0.2	31
40	Improvement of wettability, sinterability, mechanical and electrical properties of $\text{Al}_2\text{O}_3$ -Ni nanocomposites prepared by mechanical alloying. Ceramics International, 2017, 43, 3576-3582.	4.8	61
41	Synthesis of anatase nano wire and its application as a functional top layer for alumina membrane. Ceramics International, 2017, 43, 17104-17110.	4.8	6
42	Sintering and properties of borosilicate glass/Li-Na-K-feldspar composites for electronic applications. Ceramics International, 2017, 43, 15068-15073.	4.8	20
43	Effect of nano $\text{ZrO}_2$ on strengthening and electrical properties of Cu-matrix nanocomposites prepared by mechanical alloying. Ceramics International, 2017, 43, 12698-12704.	4.8	67
44	Assessment of electric arc furnace dust: Powder characterization and its sinterability as ceramic product. Ceramics International, 2017, 43, 12939-12947.	4.8	22
45	Preparation of Porous Forsterite Ceramic Using Waste Silica Fumes by the Starch Consolidation Method. InterCeram: International Ceramic Review, 2016, 65, 174-178.	0.2	3
46	Effect of milling parameters on sinterability, mechanical and electrical properties of Cu-4Åwt.% $\text{ZrO}_2$ nanocomposite. Materials Chemistry and Physics, 2016, 181, 26-32.	4.0	36
47	Recycling and utilization assessment of waste fired clay bricks (Grog) with granulated blast-furnace slag for geopolymer production. Chemical Engineering Research and Design, 2016, 103, 237-251.	5.6	158
48	Photothermal therapeutic effect of PEGylated gold nano-semicubes in chemically-induced skin cancer in mice. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 21-29.	3.8	19
49	Mobility and Fate of Pollutants in the Aquifer System of the Northwestern Suez Gulf, Egypt. Reviews of Environmental Contamination and Toxicology, 2016, 240, 169-195.	1.3	4
50	Potential of rod, sphere and semi-cube shaped gold nanoparticles to induce cytotoxicity and genotoxicity in human blood lymphocytes in vitro. European Journal of Nanomedicine, 2015, 7, .	0.6	3
51	Detection of Cyto- and Genotoxicity of Rod-Shaped Gold Nanoparticles in Human Blood Lymphocytes Using Comet-FISH. Cytologia, 2015, 80, 173-181.	0.6	10
52	Synthesis and Properties of Hydroxyapatite Nanorods. InterCeram: International Ceramic Review, 2015, 64, 358-362.	0.2	3
53	Investigation on the properties of rubber composites containing modified clay. Pigment and Resin Technology, 2015, 44, 131-142.	0.9	12
54	Alumina-zircon refractory materials for lining of the basin of glass furnaces: Effect of processing technique and $\text{TiO}_2$ addition. Ceramics International, 2015, 41, 1623-1629.	4.8	14

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55	HPLC Evaluation of PAHS Polluted Soil in Coastal Petroleum Refinery Site Northwestern Suez Gulf, Egypt. Research Journal of Environmental Toxicology, 2015, 9, 251-260.	1.0	4
56	FTIR Study of Nanostructure Perovskite BaTiO <sub>3</sub> Doped with Both Fe <sup>3+</sup> and Ni <sup>2+</sup> Ions Prepared by Sol-Gel Technique. Acta Physica Polonica A, 2014, 126, 1318-1321.	0.5	37
57	Effect of CTAB as a foaming agent on the properties of alumina ceramic membranes. Ceramics International, 2014, 40, 5299-5305.	4.8	18
58	Nano Mg <sub>1-x</sub> Ni <sub>x</sub> Al <sub>2</sub> O <sub>4</sub> spinel pigments for advanced applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 125, 353-358.	3.9	26
59	Mechanical alloying, sintering and characterization of Al <sub>2</sub> O <sub>3</sub> -20wt% Cu nanocomposite. Ceramics International, 2014, 40, 31-38.	4.8	55
60	Effect of surfactant types and their concentration on the structural characteristics of nanoclay. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 616-623.	3.9	61
61	GC estimation of organic hydrocarbons that threaten shallow Quaternary sandy aquifer Northwestern Gulf of Suez, Egypt. Environmental Monitoring and Assessment, 2014, 186, 7579-7591.	2.7	5
62	Facile One-Pot Fabrication of Hollow Porous Silica Nanoparticles. Chemistry - A European Journal, 2014, 20, 673-677.	3.3	22
63	Sintering and technological properties of alumina/zirconia/nano-TiO <sub>2</sub> ceramic composites. Materials Research Bulletin, 2013, 48, 1411-1414.	5.2	40
64	Preparation by mechanical alloying, characterization and sintering of Cu-20 wt.% Al <sub>2</sub> O <sub>3</sub> nanocomposites. Materials & Design, 2013, 46, 485-490.	5.1	68
65	Synthesis and characterization of SiC and SiC/Si <sub>3</sub> N <sub>4</sub> composite nano powders from waste material. Journal of Hazardous Materials, 2012, 227-228, 250-256.	12.4	48
66	In situ formation of sintered cordierite-mullite nano-micro composites by utilizing of waste silica fume. Materials Research Bulletin, 2012, 47, 2662-2667.	5.2	48
67	Effect of Si-graphite-Al-metal addition on low- and ultra-low cement bauxite castables. Ceramics International, 2012, 38, 3857-3862.	4.8	6
68	Tailoring the Relative Si <sub>3</sub> N <sub>4</sub> and SiC Contents in Si <sub>3</sub> N <sub>4</sub> /SiC Nanopowders through Carbothermic Reduction and Nitridation of Silica Fume. International Journal of Applied Ceramic Technology, 2012, 9, 291-303.	2.1	11
69	Fabrication of Al <sub>2</sub> O <sub>3</sub> -20vol.% Al nanocomposite powders using high energy milling and their sinterability. Materials Research Bulletin, 2012, 47, 655-661.	5.2	43
70	Synthesis of carbon-free Si <sub>3</sub> N <sub>4</sub> /SiC nanopowders using silica fume. Ceramics International, 2011, 37, 3477-3487.	4.8	35
71	Synthesis, hydration and sintering of calcium aluminate nanopowder for advanced applications. Comptes Rendus Chimie, 2011, 14, 611-618.	0.5	28
72	Tailoring the Relative Si <sub>3</sub> N <sub>4</sub> and SiC Contents in Si <sub>3</sub> N <sub>4</sub> /SiC Nanopowders through Carbothermic Reduction and Nitridation of Silica Fume. International Journal of Applied Ceramic Technology, 2011, 9, n/a-n/a.	2.1	5

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73	Synthesis of Silicon Carbide Nanopowder Using Silica Fume. Journal of the American Ceramic Society, 2010, 93, 3159-3167.	3.8	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.	2.2	16
75	In situ formation of zirconiaâ€“aluminaâ€“spinelâ€“mullite ceramic composites. Ceramics International, 2008, 34, 429-434.	4.8	37
76	Synthesis and characterization of WCâ€“Co nanocomposites by novel chemical method. Ceramics International, 2007, 33, 155-161.	4.8	55
77	Effect of zircon additions on low and ultra-low cement alumina and bauxite castables. Ceramics International, 2007, 33, 751-759.	4.8	29
78	Synthesis and characterization of nano MgAl <sub>2</sub> O <sub>4</sub> spinel by the co-precipitated method. Ceramics International, 2007, 33, 969-978.	4.8	91
79	Synthesis and characterization of calcium aluminate nanoceramics for new applications. Ceramics International, 2007, 33, 1419-1425.	4.8	46
80	Mechanical properties of SiC ceramics by ultrasonic nondestructive technique and its bioactivity. Materials Chemistry and Physics, 2007, 106, 330-337.	4.0	40
81	In situ formation of Al <sub>2</sub> O <sub>3</sub> â€“SiCâ€“mullite from Al-matrix composites. Ceramics International, 2006, 32, 21-28.	4.8	39
82	Densification and properties of glass/cordierite composites. Ceramics International, 2005, 31, 383-389.	4.8	48
83	High alumina castables reinforced with SiC. Advances in Applied Ceramics, 2005, 104, 312-317.	1.1	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 <sub>2</sub> . Advances in Applied Ceramics, 2004, 103, 165-170.	0.4	7
86	Investigation of lattice constant, sintering and properties of nano Mgâ€“Al spinels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 382, 362-370.	5.6	58
87	Thermal stability of nc-TiN/a-BN/a-TiB <sub>2</sub> nanocomposite coatings deposited by plasma chemical vapor deposition. Thin Solid Films, 2004, 467, 133-139.	1.8	72
88	Liquid-phase sintering of SiC in presence of CaO. Ceramics International, 2004, 30, 721-725.	4.8	47
89	Sinterability, microstructure and properties of glass/ceramic composites. Ceramics International, 2003, 29, 251-257.	4.8	65
90	Microstructure and hardness of nanostructured Alâ€“Feâ€“Crâ€“Ti alloys through mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 355, 37-49.	5.6	52

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91	Effect of Cr <sub>2</sub> O <sub>3</sub> 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 <sub>2</sub> O <sub>4</sub> 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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 332, 167-173.	5.6	29
96	Effect of cristobalite formation on sinterability, microstructure and properties of glass/ceramic composites. <i>Ceramics International</i> , 2002, 28, 123-130.	4.8	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.	4.8	10
100	Characterization and sinterability of chemically precipitated phosphate-bearing magnesia grains. <i>Ceramics International</i> , 2001, 27, 523-529.	4.8	5
101	Effect of mullite formation on properties of refractory castables. <i>Ceramics International</i> , 2001, 27, 689-694.	4.8	56