Adel A Francis

List of Publications by Year
in descending order

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Version: 2024-02-01

44	1,345	361413	345221
papers	citations	20 h-index	36 g-index

45	45	45	1338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iron and iron-based alloys for temporary cardiovascular applications. Journal of Materials Science: Materials in Medicine, 2015, 26, 138.	3.6	134
2	Conversion of blast furnace slag into new glass-ceramic material. Journal of the European Ceramic Society, 2004, 24, 2819-2824.	5.7	106
3	Review. Functional glasses and glass-ceramics derived from iron rich waste and combination of industrial residues. Journal of Non-Crystalline Solids, 2013, 365, 63-74.	3.1	96
4	Exploring the adsorption behavior of cationic and anionic dyes on industrial waste shells of egg. Journal of Environmental Chemical Engineering, 2017, 5, 319-327.	6.7	86
5	Crystallization kinetic of glass particles prepared from a mixture of coal ash and soda-lime cullet glass. Journal of Non-Crystalline Solids, 2004, 333, 187-193.	3.1	81
6	Non-Isothermal Crystallization Kinetics of a Blast Furnace Slag Glass. Journal of the American Ceramic Society, 2005, 88, 1859-1863.	3.8	70
7	Dispersion assessment and studies on AC percolative conductivity in polymer-derived Siâ€“Câ€“N/CNT ceramic nanocomposites. Journal of Materials Science, 2009, 44, 2055-2062.	3.7	57
8	Processing and magnetic properties of metal-containing SiCN ceramic micro- and nano-composites. Journal of Materials Science, 2008, 43, 4042-4049.	3.7	52
9	Polymer-derived microcellular SiOC foams with magnetic functionality. Journal of Materials Science, 2008, 43, 4119-4126.	3.7	50
10	Crystallization Behavior and Controlling Mechanism of Iron-Containing Siâ^'Câ^'N Ceramics. Inorganic Chemistry, 2009, 48, 10078-10083.	4.0	50
11	A new strategy for developing chitosan conversion coating on magnesium substrates for orthopedic implants. Applied Surface Science, 2019, 466, 854-862.	6.1	49
12	Crystallization kinetics of magnetic glassâ€“ceramics prepared by the processing of waste materials. Materials Research Bulletin, 2006, 41, 1146-1154.	5.2	47
13	Glass-ceramics from mixtures of coal ash and soda-lime glass by the petrurgic method. Journal of Materials Science Letters, 2002, 21, 975-980.	0.5	44
14	The environmental sustainability of calcined calcium phosphates production from the milling of eggshell wastes and phosphoric acid. Journal of Cleaner Production, 2016, 137, 1432-1438.	9.3	40
15	Alkali Reductive Roasting of Ilmenite Ore. Canadian Metallurgical Quarterly, 1996, 35, 31-37.	1.2	39
16	Fabrication and cytotoxicity assessment of novel polysiloxane/bioactive glass films for biomedical applications. Ceramics International, 2016, 42, 15442-15448.	4.8	36
17	Kinetics of Solid-State Reduction of Ilmenite Ore. Canadian Metallurgical Quarterly, 1993, 32, 281-288.	1.2	30
18	Processing, structures and compressive properties of porous glass-ceramic composites prepared from secondary by-product materials. Ceramics International, 2013, 39, 7089-7095.	4.8	29

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19	Progress in polymer-derived functional silicon-based ceramic composites for biomedical and engineering applications. Materials Research Express, 2018, 5, 062003.	1.6	27
20	An assessment of the carbothermic reduction of ilmenite ore by statistical design. Journal of Materials Processing Technology, 2008, 199, 279-286.	6.3	24
21	Fabrication and characterization of electro-codeposited Ni/Zr-silicate composite coating. Surface and Coatings Technology, 2006, 201, 282-286.	4.8	20
22	Biological evaluation of preceramic organosilicon polymers for various healthcare and biomedical engineering applications: A review. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 744-764.	3.4	20
23	Toward CNT-reinforced chitosan-based ceramic composite coatings on biodegradable magnesium for surgical implants. Journal of Coatings Technology Research, 2021, 18, 971-988.	2.5	18
24	Production of Zirconia from Zircon by Thermal Reaction with Calcium Oxide.. Journal of the Ceramic Society of Japan, 1999, 107, 97-102.	1.3	16
25	Cubic Zirconia from Zircon Sand by Firing with CaO/MgO Mixture.. Journal of the Ceramic Society of Japan, 1999, 107, 193-198.	1.3	15
26	Magnetic characteristics of iron-containing glass originated from the mixture of various wastes. Ceramics International, 2007, 33, 163-168.	4.8	15
27	Production of Glass-Ceramics from Coal Ash and Waste Glass Mixtures. Key Engineering Materials, 2001, 206-213, 2049-2052.	0.4	12
28	Unusual magnetic behavior of SiCN/multiwalled carbon nanotubes nanocomposites. Journal of Applied Physics, 2009, 105, 07A318.	2.5	12
29	Glass-ceramic from industrial waste materials. Scandinavian Journal of Metallurgy, 2004, 33, 236-241.	0.3	10
30	Alkali fusion of zircon sand. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2000, 109, 49-56.	0.6	7
31	Investigating the effect of salicylate salt in enhancing the corrosion resistance of AZ91 magnesium alloy for biomedical applications. BioNanoMaterials, 2016, 17, .	1.4	7
32	Crystallisation kinetics of mullite glass-ceramics obtained from aluminaâ€“silica wastes. International Journal of Sustainable Engineering, 2013, 6, 74-81.	3.5	6
33	Structure characterization and optimization of process parameters on compressive properties of glassâ€based foam composites. Environmental Progress and Sustainable Energy, 2014, 33, 800-807.	2.3	6
34	Alkali reductive roasting of ilmenite ore. Canadian Metallurgical Quarterly, 1996, 35, 31-37.	1.2	6
35	In Situ TiC/Al₃Ti Intermetallic Alloy Composite Produced by SHS. Combustion Science and Technology, 2013, 185, 943-952.	2.3	5
36	Manufacturing of wollastonite-based glass from cement dust: Physical and mechanical properties. Cogent Engineering, 2016, 3, 1170750.	2.2	5

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37	Synthesis and magnetic characteristics of crystallized ceramic in the BaOâ€“NiOâ€“TiO2â€“Fe2O3 system. Journal of Materials Processing Technology, 2007, 181, 213-216.	6.3	4
38	Kinetics of Solid-State Reduction of Ilmenite Ore. Canadian Metallurgical Quarterly, 1993, 32, 281-288.	1.2	4
39	Formation of Cellular-Structure Material From Automotive Glass Waste and Sawdust. Materials and Manufacturing Processes, 2013, , 130122112644001.	4.7	3
40	Experimental Design and Desirability Analysis for Optimizing the Bio-sorption of Liquid Paint-related Wastes onto Solid Eggshell Wastes. Environmental Processes, 2020, 7, 493-508.	3.5	3
41	Transforming submerged-arc welding slags into magnetic glass-ceramics. International Journal of Sustainable Engineering, 2016, 9, 411-418.	3.5	2
42	Development of a New Composite Product from Blast Furnace Slag. Materials Science Forum, 2003, 426-432, 2071-2076.	0.3	1
43	Experimental design for optimisation of density and water absorption capacity of glassâ€“ceramic foams prepared from silica rich wastes. Powder Metallurgy, 2013, 56, 295-303.	1.7	1
44	A new direction for white zircon production and separation of rare earth materials. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2005, 114, 7-9.	0.6	0