Alexander Karamanov

List of Publications by Year
in descending order

51 papers	1,912 citations	201385 27 h-index	253896 43 g-index
52 all docs	52 docs citations	52 times ranked	1281 citing authors

#	Article	IF	Citations
1	Chemical durability of glasses obtained by vitrification of industrial wastes. Waste Management, 2001, 21, 1-9.	3.7	125
2	Crystallization phenomena in iron-rich glasses. Journal of Non-Crystalline Solids, 2001, 281, 139-151.	1.5	114
3	Vitrification of electric arc furnace dusts. Waste Management, 2002, 22, 945-949.	3.7	105
4	Induced crystallization porosity and properties of sintereds diopside and wollastonite glass-ceramics. Journal of the European Ceramic Society, 2008, 28, 555-562.	2.8	100
5	Influence of Fe³⁺/Fe²⁺ Ratio on the Crystallization of Ironâ€Rich Glasses Made with Industrial Wastes. Journal of the American Ceramic Society, 2000, 83, 3153-3157.	1.9	97
6	Sintered glass-ceramics from Municipal Solid Waste-incinerator fly ashesâ€”part I: the influence of the heating rate on the sinter-crystallisation. Journal of the European Ceramic Society, 2003, 23, 827-832.	2.8	92
7	Evaluation of the degree of crystallisation in glass-ceramics by density measurements. Journal of the European Ceramic Society, 1999, 19, 649-654.	2.8	80
8	Ceramics from blast furnace slag, kaolin and quartz. Journal of the European Ceramic Society, 2011, 31, 989-998.	2.8	71
9	Ironâ€Rich Sintered Glassâ€Ceramics from Industrial Wastes. Journal of the American Ceramic Society, 1999, 82, 3012-3016.	1.9	66
10	The effect of Cr2O3 as a nucleating agent in iron-rich glass-ceramics. Journal of the European Ceramic Society, 1999, 19, 2641-2645.	2.8	62
11	Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing. Journal of the European Ceramic Society, 2012, 32, 2843-2852.	2.8	56
12	Properties of sintered glass-ceramics in the diopsideâ€“albite system. Ceramics International, 2004, 30, 2129-2135.	2.3	53
13	Sintered glass-ceramics from incinerator fly ashes. Part II. The influence of the particle size and heat-treatment on the properties. Journal of the European Ceramic Society, 2003, 23, 1609-1615.	2.8	52
14	Vitrification of copper flotation waste. Journal of Hazardous Materials, 2007, 140, 333-339.	6.5	52
15	The crystallisation kinetics of iron rich glass in different atmospheres. Journal of the European Ceramic Society, 2000, 20, 2233-2237.	2.8	49
16	Sintering behaviour of a glass obtained from MSWI ash. Journal of the European Ceramic Society, 2005, 25, 1531-1540.	2.8	42
17	Sinter-crystallisation in the diopsideâ€“albite system. Journal of the European Ceramic Society, 2006, 26, 2511-2517.	2.8	39
18	Kinetics of phase formation in jarosite glass-ceramic. Journal of the European Ceramic Society, 1999, 19, 527-533.	2.8	38

#	Article	IF	Citations
19	New ceramic materials from MSWI bottom ash obtained by an innovative microwave-assisted sintering process. Journal of the European Ceramic Society, 2017, 37, 323-331.	2.8	37
20	Sintered glass ceramic composites from vitrified municipal solid waste bottom ashes. Journal of Hazardous Materials, 2006, 137, 138-143.	6.5	36
21	Variation of Avrami parameter during non-isothermal surface crystallization of glass powders with different sizes. Journal of Non-Crystalline Solids, 2012, 358, 1486-1490.	1.5	34
22	The effect of fired scrap addition on the sintering behaviour of hard porcelain. Ceramics International, 2006, 32, 727-732.	2.3	32
23	Optimal thermal cycle for production of glassâ€"ceramic based on wastes from ferronickel manufacture. Ceramics International, 2015, 41, 11379-11386.	2.3	32
24	The SariÃ§iÃ§ek howardite fall in Turkey: Source crater of <scp>HED</scp> meteorites on Vesta and impact risk of Vestoids. Meteoritics and Planetary Science, 2019, 54, 953-1008.	0.7	30
25	Sinter-crystallization in the diopsideâ€"albite system. Journal of the European Ceramic Society, 2006, 26, 2519-2526.	2.8	29
26	Sinter-crystallization of a glass obtained from basaltic tuffs. Journal of Non-Crystalline Solids, 2008, 354, 290-295.	1.5	29
27	Structure, chemical durability and crystallization behavior of incinerator-based glassy systems. Journal of Non-Crystalline Solids, 2008, 354, 521-528.	1.5	29
28	Vitrification of hazardous Fe-Ni wastes into glass-ceramic with fine crystalline structure and elevated exploitation characteristics. Journal of Environmental Chemical Engineering, 2017, 5, 432-441.	3.3	29
29	Integrated approach to establish the sinter-crystallization ability of glasses from secondary raw material. Journal of Non-Crystalline Solids, 2011, 357, 10-17.	1.5	28
30	Glass transition temperature and activation energy of sintering by optical dilatometry. Thermochimica Acta, 2013, 553, 1-7.	1.2	25
31	Sinter-crystallization in air and inert atmospheres of a glass from pre-treated municipal solid waste bottom ashes. Journal of Non-Crystalline Solids, 2014, 389, 50-59.	1.5	23
32	New fired bricks based on municipal solid waste incinerator bottom ash. Waste Management and Research, 2017, 35, 1055-1063.	2.2	23
33	Toxicological analysis of ceramic building materials â€" Tiles and glasses â€" Obtained from post-treated bottom ashes. Waste Management, 2019, 98, 50-57.	3.7	23
34	Sintering in Nitrogen Atmosphere of Iron-Rich Glass-Ceramics. Journal of the American Ceramic Society, 2004, 87, 1354-1357.	1.9	21
35	Influence of the nucleation time-lag on the activation energy in non-isothermal crystallization. Journal of Non-Crystalline Solids, 2001, 290, 173-179.	1.5	19
36	Sintering Behavior and Properties of Ironâ€Rich Glassâ€Ceramics. Journal of the American Ceramic Society, 2004, 87, 1571-1574.	1.9	19

#	ARTICLE	IF	CITATIONS
37	Characterization of basaltic tuffs and their applications for the production of ceramic and glassâ€“ceramic materials. Ceramics International, 2009, 35, 2789-2795.	2.3	17
38	Sintered glass-ceramics and foams by metallurgical slag with addition of CaF2. Ceramics International, 2020, 46, 6507-6516.	2.3	17
39	Sintered material from alkaline basaltic tuffs. Journal of the European Ceramic Society, 2009, 29, 595-601.	2.8	16
40	Structure of glass-ceramic from Fe-Ni wastes. Materials Letters, 2018, 223, 86-89.	1.3	12
41	Sintering, crystallization and foaming of La2O3Â·SrOÂ·5B2O3 glass powders - effect of the holding temperature and the heating rate. Journal of Non-Crystalline Solids, 2018, 481, 375-382.	1.5	10
42	Glass-ceramic frits from fly ash in terracotta production. Waste Management and Research, 2009, 27, 87-92.	2.2	9
43	Pore formation in glassâ€“ceramics: Influence of the stress energy distribution. Journal of Non-Crystalline Solids, 2010, 356, 117-119.	1.5	9
44	Vitrification and Sinter-Crystallization of Iron-Rich Industrial Wastes. Advances in Science and Technology, 0, , .	0.2	7
45	Sintered Glass-Ceramics, Self-Glazed Materials and Foams from Metallurgical Waste Slag. Materials, 2021, 14, 2263.	1.3	6
46	Sintering, crystallization and foaming of La2O3â€¢SrOâ€¢5B2O3 glass powders: effect of the holding time. Journal of Non-Crystalline Solids, 2020, 544, 120168.	1.5	5
47	Reply to â€œComment on â€˜Influence of Fe³⁺/Fe²⁺ Ratio on the Crystallization of Ironâ€Rich Glasses Made with Industrial Wastes'â€• Journal of the American Ceramic Society, 2001, 84, 2742-2743.	1.9	4
48	Sintering and phase formation of ceramics based on pre-treated municipal incinerator bottom ash. Open Ceramics, 2021, 5, 100044.	1.0	4
49	8. Stress-induced Pore Formation and Phase Selection in a Crystallizing Stretched Glass. , 2014, , 441-480.		3
50	Variations in non-isothermal surface crystallization kinetics due to minor composition changes. Journal of Non-Crystalline Solids, 2015, 428, 49-53.	1.5	1
51	Sintered Iron-Rich Glass-Ceramics and Foams Obtained in Air and Argon. , 2020, , .		0