Alexander Karamanov

List of Publications by Citations

49 papers	1,575 citations	25 h-index	39 g-index
52 ext. papers	1,749 ext. citations	5.1 avg, IF	4.48 L-index

#	Paper	IF	Citations
49	Chemical durability of glasses obtained by vitrification of industrial wastes. *Waste Management*, **2001**, 21, 1-9	8.6	103
48	Crystallization phenomena in iron-rich glasses. *Journal of Non-Crystalline Solids*, **2001**, 281, 139-151	3.9	97
47	Vitrification of electric arc furnace dusts. *Waste Management*, **2002**, 22, 945-9	8.6	88
46	Influence of Fe3+/Fe2+ Ratio on the Crystallization of Iron-Rich Glasses Made with Industrial Wastes. *Journal of the American Ceramic Society*, **2000**, 83, 3153-3157	3.8	85
45	Sintered glass-ceramics from Municipal Solid Waste-incinerator fly ashes□part I: the influence of the heating rate on the sinter-crystallisation. *Journal of the European Ceramic Society*, **2003**, 23, 827-832	6	83
44	Induced crystallization porosity and properties of sintereds diopside and wollastonite glass-ceramics. *Journal of the European Ceramic Society*, **2008**, 28, 555-562	6	78
43	Evaluation of the degree of crystallisation in glass-ceramics by density measurements. *Journal of the European Ceramic Society*, **1999**, 19, 649-654	6	70
42	Iron-Rich Sintered Glass-Ceramics from Industrial Wastes. *Journal of the American Ceramic Society*, **2004**, 82, 3012-3016	3.8	60
41	Ceramics from blast furnace slag, kaolin and quartz. *Journal of the European Ceramic Society*, **2011**, 31, 989-998	6	57
40	The effect of Cr2O3 as a nucleating agent in iron-rich glass-ceramics. *Journal of the European Ceramic Society*, **1999**, 19, 2641-2645	6	53
39	Properties of sintered glass-ceramics in the diopside□albite system. *Ceramics International*, **2004**, 30, 2129-2135	5.1	49
38	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	6	47
37	Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing. *Journal of the European Ceramic Society*, **2012**, 32, 2843-2852	6	46
36	The crystallisation kinetics of iron rich glass in different atmospheres. *Journal of the European Ceramic Society*, **2000**, 20, 2233-2237	6	43
35	Vitrification of copper flotation waste. *Journal of Hazardous Materials*, **2007**, 140, 333-9	12.8	39
34	Sintering behaviour of a glass obtained from MSWI ash. *Journal of the European Ceramic Society*, **2005**, 25, 1531-1540	6	34
33	Sinter-crystallisation in the diopside□albite system. *Journal of the European Ceramic Society*, **2006**, 26, 2511-2517	6	33

32	Sintered glass ceramic composites from vitrified municipal solid waste bottom ashes. *Journal of Hazardous Materials*, **2006**, 137, 138-43	12.8	30
31	Kinetics of phase formation in jarosite glass-ceramic. *Journal of the European Ceramic Society*, **1999**, 19, 527-533	6	30
30	Variation of Avrami parameter during non-isothermal surface crystallization of glass powders with different sizes. *Journal of Non-Crystalline Solids*, **2012**, 358, 1486-1490	3.9	29
29	The effect of fired scrap addition on the sintering behaviour of hard porcelain. *Ceramics International*, **2006**, 32, 727-732	5.1	27
28	Integrated approach to establish the sinter-crystallization ability of glasses from secondary raw material. *Journal of Non-Crystalline Solids*, **2011**, 357, 10-17	3.9	26
27	Structure, chemical durability and crystallization behavior of incinerator-based glassy systems. *Journal of Non-Crystalline Solids*, **2008**, 354, 521-528	3.9	26
26	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	6	25
25	Sinter-crystallization of a glass obtained from basaltic tuffs. *Journal of Non-Crystalline Solids*, **2008**, 354, 290-295	3.9	25
24	Optimal thermal cycle for production of glass□eramic based on wastes from ferronickel manufacture. *Ceramics International*, **2015**, 41, 11379-11386	5.1	24
23	Sinter-crystallization in the diopside□lbite system: Part II. Kinetics of crystallization and sintering. *Journal of the European Ceramic Society*, **2006**, 26, 2519-2526	6	24
22	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	6.8	23
21	New fired bricks based on municipal solid waste incinerator bottom ash. *Waste Management and Research*, **2017**, 35, 1055-1063	4	20
20	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	3.9	18
19	The Sari□k howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. *Meteoritics and Planetary Science*, **2019**, 54, 953-1008	2.8	17
18	Glass transition temperature and activation energy of sintering by optical dilatometry. *Thermochimica Acta*, **2013**, 553, 1-7	2.9	17
17	Sintering in Nitrogen Atmosphere of Iron-Rich Glass-Ceramics. *Journal of the American Ceramic Society*, **2004**, 87, 1354-1357	3.8	17
16	Sintering Behavior and Properties of Iron-Rich Glass-Ceramics. *Journal of the American Ceramic Society*, **2004**, 87, 1571-1574	3.8	17
15	Influence of the nucleation time-lag on the activation energy in non-isothermal crystallization. *Journal of Non-Crystalline Solids*, **2001**, 290, 173-179	3.9	16

14	Toxicological analysis of ceramic building materials - Tiles and glasses - Obtained from post-treated bottom ashes. *Waste Management*, **2019**, 98, 50-57	8.6	15
13	Sintered material from alkaline basaltic tuffs. *Journal of the European Ceramic Society*, **2009**, 29, 595-6016		15
12	Characterization of basaltic tuffs and their applications for the production of ceramic and glass□eramic materials. *Ceramics International*, **2009**, 35, 2789-2795	5.1	14
11	Glass-ceramic frits from fly ash in terracotta production. *Waste Management and Research*, **2009**, 27, 87-92	4	9
10	Pore formation in glass□eramics: Influence of the stress energy distribution. *Journal of Non-Crystalline Solids*, **2010**, 356, 117-119	3.9	8
9	Sintering, crystallization and foaming of La2O3□SrO□B2O3 glass powders - effect of the holding temperature and the heating rate. *Journal of Non-Crystalline Solids*, **2018**, 481, 375-382	3.9	8
8	Structure of glass-ceramic from Fe-Ni wastes. *Materials Letters*, **2018**, 223, 86-89	3.3	7
7	Sintered glass-ceramics and foams by metallurgical slag with addition of CaF2. *Ceramics International*, **2020**, 46, 6507-6516	5.1	7
6	Vitrification and Sinter-Crystallization of Iron-Rich Industrial Wastes. *Advances in Science and Technology*, **2014**, 92, 174-183	0.1	5
5	Reply to □Comment on □nfluence of Fe3+/Fe2+ Ratio on the Crystallization of Iron-Rich Glasses Made with Industrial Wastes'□*Journal of the American Ceramic Society*, **2001**, 84, 2742-2743	3.8	4
4	Sintering, crystallization and foaming of La2O3□SrO□B2O3 glass powders: effect of the holding time. *Journal of Non-Crystalline Solids*, **2020**, 544, 120168	3.9	2
3	Sintering and phase formation of ceramics based on pre-treated municipal incinerator bottom ash. *Open Ceramics*, **2021**, 5, 100044	3.3	2
2	Variations in non-isothermal surface crystallization kinetics due to minor composition changes. *Journal of Non-Crystalline Solids*, **2015**, 428, 49-53	3.9	1
1	Sintered Glass-Ceramics, Self-Glazed Materials and Foams from Metallurgical Waste Slag. *Materials*, **2021**, 14,	3.5	1