Mikolaj Szafran

List of Publications by Year
in descending order

47	558	687363 13	713466 21
papers	citations	h-index	g-index

48	48	48	456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gelcasting Performance of Alumina Aqueous Suspensions with Glycerol Monoacrylate: A New Low-Toxicity Acrylic Monomer. Journal of the American Ceramic Society, 2007, 90, 1386-1393.	3.8	49
2	Application of monosaccharides derivatives in colloidal processing of aluminum oxide. Journal of the European Ceramic Society, 2010, 30, 2805-2811.	5.7	41
3	Combined centrifugal-slip casting method used for preparation the Al2O3-Ni functionally graded composites. Composites Part B: Engineering, 2018, 141, 158-163.	12.0	38
4	Photochromic effect of transparent lead-free ferroelectric KSr2Nb5O15 ceramics. Journal of the European Ceramic Society, 2019, 39, 5260-5266.	5.7	35
5	Gelcasting of alumina suspensions containing nanoparticles with glycerol monoacrylate. Journal of the European Ceramic Society, 2009, 29, 875-880.	5.7	25
6	Thermal decomposition of monosaccharides derivatives applied in ceramic gelcasting process investigated by the coupled DTA/TG/MS analysis. Journal of Thermal Analysis and Calorimetry, 2012, 109, 773-782.	3.6	24
7	Surface properties of nanozirconia and their effect on its rheological behaviour and sinterability. Journal of the European Ceramic Society, 2013, 33, 1875-1883.	5.7	20
8	Diglyceryl acrylate as alternative additive dedicated to colloidal shaping of oxide materials â€“ Synthesis, characterization and application in manufacturing of ZTA composites by gelcasting. Journal of the European Ceramic Society, 2019, 39, 3421-3432.	5.7	20
9	Fabrication of textured alumina by magnetic alignment via gelcasting based on low-toxic system. Journal of the European Ceramic Society, 2014, 34, 3841-3848.	5.7	19
10	2-carboxyethyl acrylate as a new monomer preventing negative effect of oxygen inhibition in gelcasting of alumina. Ceramics International, 2016, 42, 13682-13688.	4.8	16
11	New anhydrous aluminum nitride dispersions as potential heat-transferring media. Powder Technology, 2013, 235, 717-722.	4.2	14
12	Role of molecular structure of monosaccharides on the viscosity of aqueous nanometric alumina suspensions. Ceramics International, 2016, 42, 8572-8580.	4.8	14
13	Characterization and performance of plate-like Ba0.6Sr0.4TiO3/Poly(vinylidene fluoride â€“) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Polymer, 2020, 203, 122777.	3.8	14
14	Effect of Acrylicâ€“Styrene Copolymer Chemical Structure on the Properties of Ceramic Tapes Obtained by Tape Casting. Journal of the American Ceramic Society, 2001, 84, 1231-1235.	3.8	13
15	l-Ascorbic acid as a new activator in fabrication of ceramics by techniques using in situ polymerization. Journal of the European Ceramic Society, 2014, 34, 1581-1589.	5.7	13
16	Ultralight graphene aerogel/PVDF composites for flexible piezoelectric nanogenerators. Composites Communications, 2020, 22, 100542.	6.3	13
17	Monoacryloyl esters of carbohydrates: Synthesis, polymerization and application in ceramic technology. Carbohydrate Polymers, 2014, 111, 610-618.	10.2	12
18	Deflocculation and stabilization of Ti₃SiC₂ ceramic powder in gelcasting process. Journal of the Ceramic Society of Japan, 2015, 123, 1010-1017.	1.1	12

#	Article	IF	Citations
19	Effect of MnO2 on the microstructure and electrical properties of 0.83Pb(Zr0.5Ti0.5)O3-0.11Pb(Zn1/3Nb2/3)O3-0.06Pb(Ni1/3Nb2/3)O3 piezoelectric ceramics. Ceramics International, 2020, 46, 180-185.	4.8	12
20	Microstructure evolution and reaction mechanism of Pb(Zr1/2Ti1/2)O3-Pb(Zn1/3Nb2/3)O3â€“Pb(Ni1/3Nb2/3)O3 piezoelectric ceramics with plate-like PbTiO3 template. Ceramics International, 2021, 47, 470-478.	4.8	12
21	Textured Ti₃SiC₂ by gelcasting in a strong magnetic field. Journal of the Ceramic Society of Japan, 2012, 120, 544-547.	1.1	11
22	Acryloyl derivative of glycerol in fabrication of zirconia ceramics by polymerization in situ. Ceramics International, 2014, 40, 13289-13298.	4.8	11
23	Sweet ceramics: how saccharide-based compounds have changed colloidal processing of ceramic materials. Journal of the Korean Ceramic Society, 2020, 57, 231-245.	2.3	10
24	Influence of coreâ€shell structure on the cure depth in photopolymerizable alumina dispersion. International Journal of Applied Ceramic Technology, 2020, 17, 248-254.	2.1	8
25	Al₂O₃-Fe Functionally Graded Materials Fabricated under Magnetic Field. Solid State Phenomena, 2005, 101-102, 143-146.	0.3	7
26	Saccharides Derivatives in Shaping of Ceramic Powders â€“ New Monomers and Dispersants. Advances in Science and Technology, 2010, 62, 169-174.	0.2	7
27	Fabrication of textured Î±-alumina in high magnetic field via gelcasting with the use of glucose derivative. Journal of the Ceramic Society of Japan, 2013, 121, 89-94.	1.1	7
28	Gelcasting of Al2O3â€“W composites: Broadband dielectric spectroscopy and rheological studies of tungsten influence on polymerisation kinetics. Ceramics International, 2019, 45, 15237-15243.	4.8	7
29	Magnetic field alignment in highly concentrated suspensions for gelcasting process. Ceramics International, 2016, 42, 294-301.	4.8	6
30	Colloidal processing of Al2O3 and BST materials. Journal of Thermal Analysis and Calorimetry, 2017, 130, 365-376.	3.6	6
31	Copolymers dispersions designed to shaping of ceramic materials. Journal of Thermal Analysis and Calorimetry, 2018, 132, 453-461.	3.6	6
32	Thermal decomposition of polyhydroxy processing agents dedicated to colloidal shaping of ceramics â€“ Thermogravimetry coupled with mass spectrometry and properties of ZTA composites. Thermochimica Acta, 2019, 674, 100-109.	2.7	6
33	Monodisperse Ba0.6Sr0.4TiO3 hollow spheres via a modified template-assisted method. Applied Surface Science, 2020, 531, 147315.	6.1	6
34	New Low Toxic Water-Soluble Monomers for Gelcasting of Ceramic Powders. Advances in Science and Technology, 2010, 62, 163-168.	0.2	5
35	Synthesis of plate-like B-site complex perovskite Ba(Zr0.1Ti0.9)O3 microcrystals. Materials Letters, 2019, 236, 715-718.	2.6	5
36	Polyvinylidene difluoride-based composite: glassy dynamics and pretransitional behaviour. European Physical Journal B, 2020, 93, 1.	1.5	5

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37	New Polymeric Binders in Ceramic Processing. Advances in Science and Technology, 2006, 45, 453-461.	0.2	4
38	Synthesis of Zr substituted B-site complex Bi4(ZrxTi1-x)3O12 platelet microcrystals. Journal of Alloys and Compounds, 2019, 806, 378-385.	5.5	4
39	Polymer matrix ferroelectric composites under pressure: Negative electric capacitance and glassy dynamics. European Physical Journal E, 2019, 42, 118.	1.6	4
40	Water Thinnable Polymeric Binders in Die Pressing of Alumina. Key Engineering Materials, 2004, 264-268, 125-128.	0.4	3
41	Thermoanalytical studies of the ceramic-metal composites obtained by gel-centrifugal casting. Journal of Thermal Analysis and Calorimetry, 2018, 133, 303-312.	3.6	3
42	Application of highly sensitive spectrophotometric analysis in detection of metal content in molybdenum reinforced alumina obtained by precursor infiltration of ceramic preforms. Ceramics International, 2019, 45, 22047-22054.	4.8	3
43	Application of new low toxic monomers in gelcasting process of alumina powder. IOP Conference Series: Materials Science and Engineering, 2011, 18, 072009.	0.6	2
44	The influence of the chemical structure of selected polymers on the properties of ferroelectric ceramic-polymer composites. Open Ceramics, 2021, 7, 100160.	2.0	2
45	Graphene-reinforced ceramics obtained by slip casting and pressureless sintering: Interactions and stability of particles in aqueous environment. Open Ceramics, 2022, 9, 100245.	2.0	2
46	Application of Enzymes and Flocculants in Ceramic Processing of Alumina. Key Engineering Materials, 2004, 264-268, 69-72.	0.4	1
47	Investigations of tunability of ferroelectric ceramic-polymer composites. , 2014, , .		1