

# Mikolaj Szafran

## List of Publications by Year in descending order

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47  
papers

558  
citations

687363

13  
h-index

713466

21  
g-index

48  
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48  
docs citations

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times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-reinforced ceramics obtained by slip casting and pressureless sintering: Interactions and stability of particles in aqueous environment. <i>Open Ceramics</i> , 2022, 9, 100245.	2.0	2
2	Microstructure evolution and reaction mechanism of $\text{Pb}(\text{Zr}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ piezoelectric ceramics with plate-like $\text{PbTiO}_3$ template. <i>Ceramics International</i> , 2021, 47, 470-478.	4.8	12
3	The influence of the chemical structure of selected polymers on the properties of ferroelectric ceramic-polymer composites. <i>Open Ceramics</i> , 2021, 7, 100160.	2.0	2
4	Influence of core-shell structure on the cure depth in photopolymerizable alumina dispersion. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 248-254.	2.1	8
5	Effect of $\text{MnO}_2$ on the microstructure and electrical properties of $0.83\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3\text{-}0.11\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.06\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ piezoelectric ceramics. <i>Ceramics International</i> , 2020, 46, 180-185.	4.8	12
6	Monodisperse $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ hollow spheres via a modified template-assisted method. <i>Applied Surface Science</i> , 2020, 531, 147315.	6.1	6
7	Ultralight graphene aerogel/PVDF composites for flexible piezoelectric nanogenerators. <i>Composites Communications</i> , 2020, 22, 100542.	6.3	13
8	Sweet ceramics: how saccharide-based compounds have changed colloidal processing of ceramic materials. <i>Journal of the Korean Ceramic Society</i> , 2020, 57, 231-245.	2.3	10
9	Characterization and performance of plate-like $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3/\text{Poly}(\text{vinylidene fluoride})$ composites. <i>Polymer</i> , 2020, 203, 122777.	3.8	14
10	Polyvinylidene difluoride-based composite: glassy dynamics and pretransitional behaviour. <i>European Physical Journal B</i> , 2020, 93, 1.	1.5	5
11	Photochromic effect of transparent lead-free ferroelectric $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5260-5266.	5.7	35
12	Synthesis of Zr substituted B-site complex $\text{Bi}_4(\text{Zr}_x\text{Ti}_{1-x})_3\text{O}_{12}$ platelet microcrystals. <i>Journal of Alloys and Compounds</i> , 2019, 806, 378-385.	5.5	4
13	Application of highly sensitive spectrophotometric analysis in detection of metal content in molybdenum reinforced alumina obtained by precursor infiltration of ceramic preforms. <i>Ceramics International</i> , 2019, 45, 22047-22054.	4.8	3
14	Diglyceryl acrylate as alternative additive dedicated to colloidal shaping of oxide materials. Synthesis, characterization and application in manufacturing of ZTA composites by gelcasting. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3421-3432.	5.7	20
15	Gelcasting of $\text{Al}_2\text{O}_3\text{-W}$ composites: Broadband dielectric spectroscopy and rheological studies of tungsten influence on polymerisation kinetics. <i>Ceramics International</i> , 2019, 45, 15237-15243.	4.8	7
16	Thermal decomposition of polyhydroxy processing agents dedicated to colloidal shaping of ceramics. Thermogravimetry coupled with mass spectrometry and properties of ZTA composites. <i>Thermochimica Acta</i> , 2019, 674, 100-109.	2.7	6
17	Polymer matrix ferroelectric composites under pressure: Negative electric capacitance and glassy dynamics. <i>European Physical Journal E</i> , 2019, 42, 118.	1.6	4
18	Synthesis of plate-like B-site complex perovskite $\text{Ba}(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3$ microcrystals. <i>Materials Letters</i> , 2019, 236, 715-718.	2.6	5

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19	Copolymers dispersions designed to shaping of ceramic materials. Journal of Thermal Analysis and Calorimetry, 2018, 132, 453-461.	3.6	6
20	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
21	Combined centrifugal-slip casting method used for preparation the Al <sub>2</sub> O <sub>3</sub> -Ni functionally graded composites. Composites Part B: Engineering, 2018, 141, 158-163.	12.0	38
22	Colloidal processing of Al <sub>2</sub> O <sub>3</sub> and BST materials. Journal of Thermal Analysis and Calorimetry, 2017, 130, 365-376.	3.6	6
23	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
24	Magnetic field alignment in highly concentrated suspensions for gelcasting process. Ceramics International, 2016, 42, 294-301.	4.8	6
25	Role of molecular structure of monosaccharides on the viscosity of aqueous nanometric alumina suspensions. Ceramics International, 2016, 42, 8572-8580.	4.8	14
26	Deflocculation and stabilization of Ti <sub>3</sub> SiC <sub>2</sub> ceramic powder in gelcasting process. Journal of the Ceramic Society of Japan, 2015, 123, 1010-1017.	1.1	12
27	Investigations of tunability of ferroelectric ceramic-polymer composites. , 2014, , .		1
28	Acryloyl derivative of glycerol in fabrication of zirconia ceramics by polymerization in situ. Ceramics International, 2014, 40, 13289-13298.	4.8	11
29	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
30	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
31	Monoacryloyl esters of carbohydrates: Synthesis, polymerization and application in ceramic technology. Carbohydrate Polymers, 2014, 111, 610-618.	10.2	12
32	New anhydrous aluminum nitride dispersions as potential heat-transferring media. Powder Technology, 2013, 235, 717-722.	4.2	14
33	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
34	Fabrication of textured $\gamma$ -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
35	Textured Ti <sub>3</sub> SiC <sub>2</sub> by gelcasting in a strong magnetic field. Journal of the Ceramic Society of Japan, 2012, 120, 544-547.	1.1	11
36	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

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37	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
38	Application of monosaccharides derivatives in colloidal processing of aluminum oxide. Journal of the European Ceramic Society, 2010, 30, 2805-2811.	5.7	41
39	Saccharides Derivatives in Shaping of Ceramic Powders – New Monomers and Dispersants. Advances in Science and Technology, 2010, 62, 169-174.	0.2	7
40	New Low Toxic Water-Soluble Monomers for Gelcasting of Ceramic Powders. Advances in Science and Technology, 2010, 62, 163-168.	0.2	5
41	Gelcasting of alumina suspensions containing nanoparticles with glycerol monoacrylate. Journal of the European Ceramic Society, 2009, 29, 875-880.	5.7	25
42	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
43	New Polymeric Binders in Ceramic Processing. Advances in Science and Technology, 2006, 45, 453-461.	0.2	4
44	Al <sub>2</sub> O <sub>3</sub> -Fe Functionally Graded Materials Fabricated under Magnetic Field. Solid State Phenomena, 2005, 101-102, 143-146.	0.3	7
45	Water Thinnable Polymeric Binders in Die Pressing of Alumina. Key Engineering Materials, 2004, 264-268, 125-128.	0.4	3
46	Application of Enzymes and Flocculants in Ceramic Processing of Alumina. Key Engineering Materials, 2004, 264-268, 69-72.	0.4	1
47	Effect of Acrylic-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