Oleg O Shichalin

List of Publications by Year
in descending order

55	991	279701 23	501076 28
papers	citations	h-index	g-index

55	55	55	408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A complex approach to assessing porous structure of structured ceramics obtained by SPS technique. Materials Characterization, 2018, 145, 294-302.	1.9	42
2	Hydrothermal synthesis and spark plasma sintering of NaY zeolite as solid-state matrices for cesium-137 immobilization. Journal of the European Ceramic Society, 2022, 42, 3004-3014.	2.8	39
3	Synthesis of BaCe0.9xZrxY0.1O3 nanopowders and the study of proton conductors fabricated on their basis by low-temperature spark plasma sintering. International Journal of Hydrogen Energy, 2019, 44, 20345-20354.	3.8	37
4	SPS technique for ionizing radiation source fabrication based on dense cesium-containing core. Journal of Hazardous Materials, 2019, 369, 25-30.	6.5	34
5	Influence of sintering temperature on structural and optical properties of Y2O3â€“MgO composite SPS ceramics. Ceramics International, 2020, 46, 6537-6543.	2.3	33
6	Synthesis of amorphous KAlSi3O8 for cesium radionuclide immobilization into solid matrices using spark plasma sintering technique. Ceramics International, 2022, 48, 3808-3817.	2.3	33
7	Behavior of a sample of the ceramic material HfB2â€“SiC (45 vol %) in the flow of dissociated air and the analysis of the emission spectrum of the boundary layer above its surface. Russian Journal of Inorganic Chemistry, 2015, 60, 1360-1373.	0.3	32
8	WC-5TiC-10Co hard metal alloy fabrication via mechanochemical and SPS techniques. International Journal of Refractory Metals and Hard Materials, 2021, 94, 105385.	1.7	31
9	Production of ultrahigh temperature composite materials HfB2-SiC and the study of their behavior under the action of a dissociated air flow. Russian Journal of Inorganic Chemistry, 2013, 58, 1269-1276.	0.3	30
10	Spark Plasma Sintering as a high-tech approach in a new generation of synthesis of nanostructured functional ceramics. Nanotechnologies in Russia, 2017, 12, 49-61.	0.7	30
11	Fabrication of highly-doped Nd3+:YAG transparent ceramics by reactive SPS. Ceramics International, 2018, 44, 23145-23149.	2.3	30
12	HfB2-SiC (10â€“20 vol %) ceramic materials: Manufacture and behavior under long-term exposure to dissociated air streams. Russian Journal of Inorganic Chemistry, 2014, 59, 1361-1382.	0.3	29
13	HfB2-SiC (45 vol %) ceramic material: Manufacture and behavior under long-term exposure to dissociated air jet flow. Russian Journal of Inorganic Chemistry, 2014, 59, 1298-1311.	0.3	29
14	Behavior of HfB2-SiC (10, 15, and 20 vol %) ceramic materials in high-enthalpy air flows. Russian Journal of Inorganic Chemistry, 2016, 61, 1203-1218.	0.3	29
15	Preparation of porous SiC-ceramics by solâ€“gel and spark plasma sintering. Journal of Sol-Gel Science and Technology, 2017, 82, 748-759.	1.1	29
16	SrAl2Si2O8 ceramic matrices for 90Sr immobilization obtained via spark plasma sintering-reactive synthesis. Nuclear Engineering and Technology, 2021, 53, 2289-2294.	1.1	29
17	Spark plasma sintering of nanopowders in the CeO2-Y2O3 system as a promising approach to the creation of nanocrystalline intermediate-temperature solid electrolytes. Ceramics International, 2018, 44, 19879-19884.	2.3	28
18	Application of carbonaceous template for porous structure control of ceramic composites based on synthetic wollastonite obtained via Spark Plasma Sintering. Ceramics International, 2015, 41, 1171-1176.	2.3	27

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19	Sol-gel and SPS combined synthesis of highly porous wollastonite ceramic materials with immobilized Au-NPs. Ceramics International, 2017, 43, 8509-8516.	2.3	27
20	Spark Plasma Sintering of Special-Purpose Functional Ceramics Based on UO2, ZrO2, Fe3O4/Î±-Fe2O3. Glass Physics and Chemistry, 2018, 44, 632-640.	0.2	27
21	Al2O3â€“Ce:YAG and Al2O3â€“Ce:(Y,Gd)AG composite ceramics for high brightness lighting: Effect of microstructure. Materials Characterization, 2021, 172, 110883.	1.9	27
22	SPS hard metal alloy WC-8Ni-8Fe fabrication based on mechanochemical synthetic tungsten carbide powder. Journal of Alloys and Compounds, 2020, 816, 152547.	2.8	25
23	Sol-gel (template) synthesis of osteoplastic CaSiO3/HAp powder biocomposite: â€œin vitroâ€•and â€œin vivoâ€• biocompatibility assessment. Powder Technology, 2020, 367, 762-773.	2.1	25
24	Comparative study of WC-based hard alloys fabrication via spark plasma sintering using Co, Fe, Ni, Cr, and Ti binders. International Journal of Refractory Metals and Hard Materials, 2022, 102, 105725.	1.7	25
25	Spark plasma sintering-reactive synthesis of SrWO4 ceramic matrices for 90Sr immobilization. Vacuum, 2020, 180, 109628.	1.6	24
26	A novel approach for rice straw agricultural waste utilization: Synthesis of solid aluminosilicate matrices for cesium immobilization. Nuclear Engineering and Technology, 2022, 54, 3250-3259.	1.1	24
27	Hydrothermal synthesis, structure and sorption performance to cesium and strontium ions of nanostructured magnetic zeolite composites. Nuclear Engineering and Technology, 2022, 54, 1991-2003.	1.1	23
28	Wollastonite ceramics with bimodal porous structures prepared by solâ€“gel and SPS techniques. RSC Advances, 2016, 6, 34066-34073.	1.7	15
29	Reaction synthesis of SrTiO3 mineral-like ceramics for strontium-90 immobilization via additional in-situ synchrotron studies. Ceramics International, 2022, 48, 19597-19605.	2.3	14
30	Phase Formation and Densification Peculiarities of Hfâ€“Câ€“N Solid Solution Ceramics during Reactive Spark Plasma Sintering. Advanced Engineering Materials, 2020, 22, 2000482.	1.6	13
31	Sol-gel synthesis of SiC@Y3Al5O12 composite nanopowder and preparation of porous SiC-ceramics derived from it. Materials Chemistry and Physics, 2019, 235, 121734.	2.0	12
32	ZrO2-phosphates porous ceramic obtained via SPS-RS â€œin situâ€•technique: Bacteria test assessment. Ceramics International, 2019, 45, 13838-13846.	2.3	12
33	Influence of sintering parameters on transparency of reactive SPSed Nd3+:YAG ceramics. Optical Materials, 2021, 112, 110760.	1.7	12
34	Fast (Ce,Gd)₃Ga₂Al₃O₁₂ Scintillators Grown by the Optical Floating Zone Method. Crystal Growth and Design, 2022, 22, 180-190.	1.4	11
35	Ce3+ doped Lu3Al5O12 ceramics prepared by spark plasma sintering technology using micrometre powders: Microstructure, luminescence, and scintillation properties. Journal of the European Ceramic Society, 2022, 42, 6663-6670.	2.8	10
36	Spark plasma sintering of UO2 fuel composite with Gd2O3 integral fuel burnable absorber. Nuclear Engineering and Technology, 2020, 52, 1756-1763.	1.1	9

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37	Synthetic nanostructured wollastonite: Composition, structure and â€œin vitroâ€•biocompatibility investigation. Ceramics International, 2021, 47, 22487-22496.	2.3	9
38	Synthesis and spark plasma sintering of solid-state matrices based on calcium silicate for 60Co immobilization. Journal of Alloys and Compounds, 2022, 912, 165233.	2.8	9
39	Al2O3â€“Ce:YAG composite ceramics for high brightness lighting: Cerium doping effect. Journal of Alloys and Compounds, 2021, 887, 161486.	2.8	8
40	Synthesis of Ti-Cu Multiphase Alloy by Spark Plasma Sintering: Mechanical and Corrosion Properties. Metals, 2022, 12, 1089.	1.0	8
41	CaSiO3-HAp Structural Bioceramic by Sol-Gel and SPS-RS Techniques: Bacteria Test Assessment. Journal of Functional Biomaterials, 2020, 11, 41.	1.8	7
42	Morphological Characteristics of the Osteoplastic Potential of Synthetic CaSiO3/HAp Powder Biocomposite. Journal of Functional Biomaterials, 2020, 11, 68.	1.8	6
43	UO2-Eu2O3 compound fuel fabrication via spark plasma sintering. Journal of Alloys and Compounds, 2021, 854, 155904.	2.8	6
44	A novel IR-transparent Ho3+:Y2O3â€“MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406.	2.3	6
45	Synthesis of nanostructured iron oxides and new magnetic ceramics using sol-gel and SPS techniques. AIP Conference Proceedings, 2017, , .	0.3	5
46	Reactive SPS of Nd :YAG transparent ceramics with LiF sintering additive. Optical Materials, 2021, 119, 111389.	1.7	4
47	Synthesis and Spark Plasma Sintering of Microcrystalline Thorium Dioxide for Nuclear Fuel Products. Russian Journal of Inorganic Chemistry, 2020, 65, 1245-1252.	0.3	3
48	UO2â€“Y2O3 ceramic nuclear fuel: SPS fabrication, physico-chemical investigation and neutron absorption evaluation. Journal of Alloys and Compounds, 2021, 877, 160266.	2.8	3
49	Wide Concentration Range of Tb3+ Doping Influence on Scintillation Properties of (Ce, Tb,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.3	3
50	Adsorption of Co(II) ions using Zr-Ca-Mg and Ti-Ca-Mg phosphates: adsorption modeling and mechanistic aspects. Environmental Science and Pollution Research, 0, , .	2.7	3
51	Synthesis of Hf-C-N ceramics by spark plasma sintering. EPJ Web of Conferences, 2019, 196, 00012.	0.1	2
52	Synthesis of Ceramic and Glass Ceramic Matrices with Immobilized Cesium Radionuclides for Active Zones of Ionizing Radiation Sources. Materials Science Forum, 0, 945, 827-832.	0.3	1
53	Rabbit's cranial defect regeneration using a fine-grained ZrO2- (15Âwt%)HAp ceramic implant fabricated by SPS-RS technique. Ceramics International, 2022, 48, 13817-13825.	2.3	1
54	Stable growth of (Ce,Gd)3Ga2Al3O12 crystal scintillators by the traveling solvent floating zone method. CrystEngComm, 0, , .	1.3	1

#	Article	IF	Citations
55	Influence of vacuum heating on magnetic characteristics of Î±-Fe2O3 ceramics obtained via spark plasma sintering. , 2019, , .		0