Denis Kosyanov

List of Publications by Year
in descending order

41 papers	375 citations	12 h-index	17 g-index
43 all docs	43 docs citations	43 times ranked	341 citing authors

#	Article	IF	Citations
1	Influence of sintering temperature on structural and optical properties of Y2O3â€“MgO composite SPS ceramics. Ceramics International, 2020, 46, 6537-6543.	2.3	33
2	Fabrication of highly-doped Nd3+:YAG transparent ceramics by reactive SPS. Ceramics International, 2018, 44, 23145-23149.	2.3	30
3	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
4	Characterization of fume particles generated during arc welding with various covered electrodes. Scientific Reports, 2018, 8, 17169.	1.6	23
5	Phase formation and densification peculiarities of Y3Al5O12:Nd3+ during reactive sintering. Journal of Crystal Growth, 2014, 401, 839-843.	0.7	19
6	Effect of Nd 3+ ions on phase transformations and microstructure of 0â€“4Âat.% Nd 3+ :Y 3 Al 5 O 12 transparent ceramics. Journal of Alloys and Compounds, 2016, 686, 526-532.	2.8	18
7	Microstructure evolution of SiO2, ZrO2-doped Y3Al5O12:Nd3+ ceramics obtained by reactive sintering. Ceramics International, 2015, 41, 11966-11974.	2.3	16
8	Structural-phase state and lasing of 5â€“15 at% Yb3+:Y3Al5O12 optical ceramics. Journal of the European Ceramic Society, 2017, 37, 4115-4122.	2.8	16
9	Low-agglomerated yttria nanopowders via decomposition of sulfate-doped precursor with transient morphology. Journal of Rare Earths, 2014, 32, 320-325.	2.5	15
10	Complex study of air pollution in electroplating workshop. Scientific Reports, 2020, 10, 11282.	1.6	14
11	The effect of residual porosity on the optical properties of Y3Al5O12:Nd3+ laser ceramics. Technical Physics Letters, 2015, 41, 496-499.	0.2	13
12	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
13	Influence of sintering parameters on transparency of reactive SPSed Nd3+:YAG ceramics. Optical Materials, 2021, 112, 110760.	1.7	12
14	TiO2â€“SrTiO3 Biphase Nanoceramics as Advanced Thermoelectric Materials. Materials, 2019, 12, 2895.	1.3	11
15	Nd3+:Y3Al5O12 laser ceramics: Influence of the size of yttrium oxide particles on sintering. Crystallography Reports, 2015, 60, 299-305.	0.1	10
16	A new method for calculating the residual porosity of transparent materials. Journal of Alloys and Compounds, 2019, 781, 892-897.	2.8	10
17	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
18	Al2O3â€“Ce:YAG composite ceramics for high brightness lighting: Cerium doping effect. Journal of Alloys and Compounds, 2021, 887, 161486.	2.8	8

#	Article	IF	Citations
19	Reactive sintering of highly-doped YAG/Nd3+:YAG/YAG composite ceramics. Processing and Application of Ceramics, 2017, 11, 290-295.	0.4	8
20	Microstructure evolution during reactive sintering of Y3Al5O12:Nd3+ transparent ceramics: Influence of green body annealing. Journal of the European Ceramic Society, 2019, 39, 3867-3875.	2.8	7
21	Transparent 4 at% Nd3+:Y3Al5O12 ceramic by reactive spark plasma sintering. AIP Conference Proceedings, 2017, , .	0.3	6
22	1532â€¯nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics. Optical Materials, 2018, 77, 221-225.	1.7	6
23	Enhancement of gas hydrates synthesis with CNT surfaces. AIP Conference Proceedings, 2018, , .	0.3	6
24	A novel IR-transparent Ho3+:Y2O3â€"MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406.	2.3	6
25	Influence of carbon contamination on transparency of reactive SPSed Nd³⁺:YAG ceramics. Journal of Physics: Conference Series, 2020, 1461, 012187.	0.3	5
26	Determination of the bulk fraction of spherical non-uniformities in high-density materials. Ceramics International, 2021, 47, 28932-28941.	2.3	5
27	Sintering trajectory of the 2.88 Y2O3-0.12 Nd2O3-5Al2O3 powders of different sizes. Journal of Superhard Materials, 2015, 37, 63-65.	0.5	4
28	Effect of green body annealing on laser performance of YAG:Nd3+ ceramics. Ceramics International, 2018, 44, 4487-4490.	2.3	4
29	Reactive SPS of Nd :YAG transparent ceramics with LiF sintering additive. Optical Materials, 2021, 119, 111389.	1.7	4
30	Synthesis and characterization of branched gold nanoparticles. Functional Materials, 2017, 23, 021-025.	0.4	4
31	Development, Spectral Properties and Lasing of the 1 - 4 at. % Nd3+ Doped Y3Al5O12 Ceramics. Physics Procedia, 2015, 76, 138-144.	1.2	3
32	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
33	The influence of electrode coating type on key parameters of PM10 fraction of the welding aerosol. AIP Conference Proceedings, 2017, , .	0.3	2
34	Modeling the structure of the TiO2(rutile)/SrTiO3 heterointerface. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012031.	0.3	2
35	Characteristics of fume sedimentation in the working zone during arc welding with covered electrodes. Toxicological and Environmental Chemistry, 2019, 101, 463-474.	0.6	1
36	Features of reactive SPS of SrTiO3â€"TiO2 biphasic ceramics. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012034.	0.3	1

#	Article	IF	Citations
37	Comparison of Nd:YAG optical ceramics produced by different sintering routes. , 2012, , .		0
38	Fabrication and characterization of 1–4 at.% Nd³⁺:Y<inf>3</inf>Al<inf>5</inf>O<inf>12</inf> Laser Ceramics by solid-state reactive sintering. , 2014, , .		0
39	Some approaches for residual porosity estimating. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012015.	0.3	0
40	Revealing the morphological peculiarities of Y3Al5O12:Nd laser ceramics by ion beam sputtering. Functional Materials, 2013, 20, 466-470.	0.4	0
41	Formation of monolayer ensembles of branched gold nanoparticles. Functional Materials, 2018, 25, 534-538.	0.4	0