

Denis Kosyanov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ce ³⁺ doped Lu ₃ Al ₅ O ₁₂ 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
2	A novel IR-transparent Ho ³⁺ :Y ₂ O ₃ @MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406.	2.3	6
3	Features of reactive SPS of SrTiO ₃ @TiO ₂ biphasic ceramics. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012034.	0.3	1
4	Some approaches for residual porosity estimating. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012015.	0.3	0
5	Influence of sintering parameters on transparency of reactive SPSed Nd ³⁺ :YAG ceramics. Optical Materials, 2021, 112, 110760.	1.7	12
6	Al ₂ O ₃ @Ce:YAG and Al ₂ O ₃ @Ce:(Y,Gd)AG composite ceramics for high brightness lighting: Effect of microstructure. Materials Characterization, 2021, 172, 110883.	1.9	27
7	Modeling the structure of the TiO ₂ (rutile)/SrTiO ₃ heterointerface. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012031.	0.3	2
8	Reactive SPS of Nd :YAG transparent ceramics with LiF sintering additive. Optical Materials, 2021, 119, 111389.	1.7	4
9	UO ₂ @Y ₂ O ₃ ceramic nuclear fuel: SPS fabrication, physico-chemical investigation and neutron absorption evaluation. Journal of Alloys and Compounds, 2021, 877, 160266.	2.8	3
10	Determination of the bulk fraction of spherical non-uniformities in high-density materials. Ceramics International, 2021, 47, 28932-28941.	2.3	5
11	Al ₂ O ₃ @Ce:YAG composite ceramics for high brightness lighting: Cerium doping effect. Journal of Alloys and Compounds, 2021, 887, 161486.	2.8	8
12	Influence of sintering temperature on structural and optical properties of Y ₂ O ₃ @MgO composite SPS ceramics. Ceramics International, 2020, 46, 6537-6543.	2.3	33
13	Phase Formation and Densification Peculiarities of Hf@Ca@N Solid Solution Ceramics during Reactive Spark Plasma Sintering. Advanced Engineering Materials, 2020, 22, 2000482.	1.6	13
14	Complex study of air pollution in electroplating workshop. Scientific Reports, 2020, 10, 11282.	1.6	14
15	Influence of carbon contamination on transparency of reactive SPSed Nd ³⁺ :YAG ceramics. Journal of Physics: Conference Series, 2020, 1461, 012187.	0.3	5
16	TiO ₂ @SrTiO ₃ Biphasic Nanoceramics as Advanced Thermoelectric Materials. Materials, 2019, 12, 2895.	1.3	11
17	Microstructure evolution during reactive sintering of Y ₃ Al ₅ O ₁₂ :Nd ³⁺ transparent ceramics: Influence of green body annealing. Journal of the European Ceramic Society, 2019, 39, 3867-3875.	2.8	7
18	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

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19	A new method for calculating the residual porosity of transparent materials. Journal of Alloys and Compounds, 2019, 781, 892-897.	2.8	10
20	1532-nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics. Optical Materials, 2018, 77, 221-225.	1.7	6
21	Effect of green body annealing on laser performance of YAG:Nd ³⁺ ceramics. Ceramics International, 2018, 44, 4487-4490.	2.3	4
22	Characterization of fume particles generated during arc welding with various covered electrodes. Scientific Reports, 2018, 8, 17169.	1.6	23
23	Enhancement of gas hydrates synthesis with CNT surfaces. AIP Conference Proceedings, 2018, , .	0.3	6
24	Fabrication of highly-doped Nd ³⁺ :YAG transparent ceramics by reactive SPS. Ceramics International, 2018, 44, 23145-23149.	2.3	30
25	Formation of monolayer ensembles of branched gold nanoparticles. Functional Materials, 2018, 25, 534-538.	0.4	0
26	Structural-phase state and lasing of 5 at% Yb ³⁺ :Y ₃ Al ₅ O ₁₂ optical ceramics. Journal of the European Ceramic Society, 2017, 37, 4115-4122.	2.8	16
27	The influence of electrode coating type on key parameters of PM10 fraction of the welding aerosol. AIP Conference Proceedings, 2017, , .	0.3	2
28	Transparent 4 at% Nd ³⁺ :Y ₃ Al ₅ O ₁₂ ceramic by reactive spark plasma sintering. AIP Conference Proceedings, 2017, , .	0.3	6
29	Synthesis and characterization of branched gold nanoparticles. Functional Materials, 2017, 23, 021-025.	0.4	4
30	Reactive sintering of highly-doped YAG/Nd ³⁺ :YAG/YAG composite ceramics. Processing and Application of Ceramics, 2017, 11, 290-295.	0.4	8
31	Effect of Nd ³⁺ ions on phase transformations and microstructure of 0-4 at.% Nd ³⁺ :Y ₃ Al ₅ O ₁₂ transparent ceramics. Journal of Alloys and Compounds, 2016, 686, 526-532.	2.8	18
32	Microstructure evolution of SiO ₂ , ZrO ₂ -doped Y ₃ Al ₅ O ₁₂ :Nd ³⁺ ceramics obtained by reactive sintering. Ceramics International, 2015, 41, 11966-11974.	2.3	16
33	Development, Spectral Properties and Lasing of the 1 - 4 at. % Nd ³⁺ Doped Y ₃ Al ₅ O ₁₂ Ceramics. Physics Procedia, 2015, 76, 138-144.	1.2	3
34	Sintering trajectory of the 2.88 Y ₂ O ₃ -0.12 Nd ₂ O ₃ -5Al ₂ O ₃ powders of different sizes. Journal of Superhard Materials, 2015, 37, 63-65.	0.5	4
35	The effect of residual porosity on the optical properties of Y ₃ Al ₅ O ₁₂ :Nd ³⁺ laser ceramics. Technical Physics Letters, 2015, 41, 496-499.	0.2	13
36	Nd ³⁺ :Y ₃ Al ₅ O ₁₂ laser ceramics: Influence of the size of yttrium oxide particles on sintering. Crystallography Reports, 2015, 60, 299-305.	0.1	10

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37	Fabrication and characterization of 1–4 at.% Nd ³⁺ :Y ₃ Al ₅ O ₁₂ Laser Ceramics by solid-state reactive sintering. , 2014, , .		0
38	Low-agglomerated yttria nanopowders via decomposition of sulfate-doped precursor with transient morphology. Journal of Rare Earths, 2014, 32, 320-325.	2.5	15
39	Phase formation and densification peculiarities of Y ₃ Al ₅ O ₁₂ :Nd ³⁺ during reactive sintering. Journal of Crystal Growth, 2014, 401, 839-843.	0.7	19
40	Revealing the morphological peculiarities of Y ₃ Al ₅ O ₁₂ :Nd laser ceramics by ion beam sputtering. Functional Materials, 2013, 20, 466-470.	0.4	0
41	Comparison of Nd:YAG optical ceramics produced by different sintering routes. , 2012, , .		0