

Jan Brta

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

511
citations

14
h-index

20
g-index

48
ext. papers

620
ext. citations

3.5
avg, IF

3.58
L-index

#	Paper	IF	Citations
46	Compositional screening of Ce-doped (Gd,Lu,Y) ₃ (Al,Ga) ₅ O ₁₂ ceramics prepared by quenching from melt and their luminescence properties. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161687	5.7	2
45	Tri-arc growth and characterization of U ₃ Si ₂ and U ₃ Si ₅ single crystals. <i>Journal of Crystal Growth</i> , 2021 , 558, 126025	1.6	1
44	Accurately predicting optical properties of rare-earth, aluminate scintillators: influence of electron-hole correlation. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7292-7301	7.1	3
43	Ternary sulfides ALn ₂ S ₂ :Eu ²⁺ (A = Alkaline Metal, Ln = rare-earth element) for lighting: Correlation between the host structure and Eu ²⁺ emission maxima. <i>Chemical Engineering Journal</i> , 2021 , 418, 129380	14.7	2
42	Peculiarities and the red shift of Eu ²⁺ luminescence in Gd ³⁺ -admixed YAG phosphors. <i>Optical Materials</i> , 2021 , 120, 111464	3.3	0
41	Specific absorption in Y ₃ Al ₅ O ₁₂ :Eu ceramics and the role of stable Eu ²⁺ in energy transfer processes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8823-8839	7.1	10
40	Synthesis routes of CeO ₂ nanoparticles dedicated to organophosphorus degradation: a benchmark. <i>CrystEngComm</i> , 2020 , 22, 1725-1737	3.3	10
39	Variability of Eu ²⁺ -Emission Features in Multicomponent Alkali-Metal-Rare-Earth Sulfides. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 016007	2	5
38	Probing the ⁹¹ Zr NMR parameters in the solid state by a combination of DFT calculations and experiments. <i>Chemical Physics Letters</i> , 2020 , 738, 136855	2.5	
37	Highly luminescent cerium-doped YSO/ LSO microcrystals prepared via room temperature sol-gel route. <i>Radiation Measurements</i> , 2019 , 122, 84-90	1.5	2
36	Infrared spectroscopic properties of low-phonon lanthanide-doped KLu ₂ crystals. <i>Journal of Luminescence</i> , 2019 , 211, 100-107	3.8	7
35	Photochemical synthesis and characterization of multi-component (Gd,Lu) ₃ (Ga,Al) ₅ O ₁₂ :Ce garnet powders. <i>Radiation Measurements</i> , 2019 , 124, 98-102	1.5	2
34	Photochemical synthesis of nano- and micro-crystalline particles in aqueous solutions. <i>Applied Surface Science</i> , 2019 , 479, 506-511	6.7	9
33	Luminescence and scintillation properties of strontium hafnate and strontium zirconate single crystals. <i>Optical Materials</i> , 2019 , 98, 109494	3.3	0
32	Luminescence and scintillation properties of rare-earth-doped LaAlO ₃ single crystals. <i>Radiation Measurements</i> , 2019 , 121, 26-31	1.5	15
31	Photoinduced Preparation of Bandgap-Engineered Garnet Powders. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2184-2190	1.7	3
30	Circadian Light Source Based on K _x Na _{1-x} LuS ₂ :Eu ²⁺ Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3182-R3188	2	5

29	Afterglow and Quantum Tunneling in Ce-Doped Lutetium Aluminum Garnet. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2085-2089	1.7	3
28	Conference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 1976-1976	1.7	
27	Sorption properties of selected oxidic nanoparticles for the treatment of spent decontamination solutions based on citric acid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 2443-2448	1.5	0
26	Influence of Mg-codoping, non-stoichiometry and Ga-admixture on LuAG:Ce scintillation properties. <i>Optical Materials</i> , 2018 , 86, 213-232	3.3	6
25	Luminescence and scintillation properties of Mg-codoped LuAG:Pr single crystals annealed in air. <i>Journal of Luminescence</i> , 2017 , 181, 277-285	3.8	28
24	ALnS ₂ :RE (A=K, Rb; Ln=La, Gd, Lu, Y): New optical materials family. <i>Journal of Luminescence</i> , 2016 , 170, 718-735	3.8	22
23	Pr-doped Lu ₃ Al ₅ O ₁₂ scintillation nanopowders prepared by radiation method. <i>Journal of Luminescence</i> , 2016 , 179, 21-25	3.8	4
22	Tunable Eu ²⁺ emission in K x Na 1x Lu ₂ phosphors for white LED application. <i>Materials and Design</i> , 2016 , 106, 363-370	8.1	16
21	Luminescence and scintillation properties of Lu ₃ Al ₅ O ₁₂ nanoceramics sintered by SPS method. <i>Optical Materials</i> , 2016 , 53, 54-63	3.3	11
20	Gamma-radiolytic preparation of multi-component oxides. <i>Radiation Physics and Chemistry</i> , 2016 , 124, 68-74	2.5	3
19	Eu ²⁺ Stabilization in YAG Structure: Optical and Electron Paramagnetic Resonance Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21751-21761	3.8	27
18	Prospective carriers of ²²³ Ra for targeted alpha particle therapy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 443-447	1.5	30
17	Optical, Structural and Paramagnetic Properties of Eu-Doped Ternary Sulfides ALnS ₄ (A = Na, K, Rb; Ln = La, Gd, Lu, Y). <i>Materials</i> , 2015 , 8, 6978-6998	3.5	27
16	Nanocrystalline Eu-doped Lu ₃ Al ₅ O ₁₂ phosphor prepared by radiation method. <i>Optical Materials</i> , 2015 , 40, 102-106	3.3	3
15	Luminescence characteristics of doubly doped KLu ₂ S ₂ :Eu, RE (RE = Pr, Sm, Ce). <i>Optical Materials</i> , 2015 , 41, 94-97	3.3	14
14	Optical properties of Ce ³⁺ -doped KLu ₂ S ₂ phosphor. <i>Journal of Luminescence</i> , 2014 , 147, 196-201	3.8	19
13	Optical and Structural Properties of RE^{3+} -Doped KLnS_2 Compounds. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 385-389	1.7	14
12	Indirect synthesis of Al ₂ O ₃ via radiation- or photochemical formation of its hydrated precursors. <i>Materials Research Bulletin</i> , 2014 , 49, 633-639	5.1	6

11	Stabilization of Eu ²⁺ in KLuS ₂ crystalline host: an EPR and optical study. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 08, 801-804	2.5	11
10	UV radiation: a promising tool in the synthesis of multicomponent nano-oxides. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	6
9	Luminescence and structural properties of RbGdS ₂ compounds doped by rare earth elements. <i>Optical Materials</i> , 2013 , 35, 1226-1229	3.3	24
8	Optical properties of Eu ²⁺ -doped KLuS ₂ phosphor. <i>Chemical Physics Letters</i> , 2013 , 574, 61-65	2.5	26
7	Preparation of inorganic crystalline compounds induced by ionizing, UV and laser radiations. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1411-1416	2.5	9
6	Radiation-induced preparation of pure and Ce-doped lutetium aluminium garnet and its luminescent properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16590		31
5	Preparation, luminescence and structural properties of rare-earth-doped RbLuS ₂ compounds. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 95-97	2.5	22
4	Photo- and radiation-induced preparation of Y ₂ O ₃ and Y ₂ O ₃ :Ce(Eu) nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	3
3	Preparation, luminescence and structural properties of RE-doped RbLaS ₂ compounds. <i>Acta Materialia</i> , 2011 , 59, 6219-6227	8.4	33
2	Radiolytic formation of ferrous and ferric ions in carbon steel deaerated water system. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 440-445	2.5	5
1	Photo- and radiation-induced preparation of nanocrystalline copper and cuprous oxide catalysts. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 286, 611-618	1.5	32