



Projekta Izp-2018/2-0358 rezultāti

Jaunu scintilatoru materiālu izstrāde medicīnas pielietojumiem

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS:

1. Tuomela, A.; Zhang, M.; Huttula, M.; Sakirzanovas, S.; Kareiva, A.; Popov, A. I.; Kozlova, A. P.; Aravindh, S. A.; Cao, W.; Pankratov, V. Luminescence and vacuum ultraviolet excitation spectroscopy of samarium doped SrB4O7. - J Alloys Compd, 2020, 826, <https://doi.org/10.1016/j.jallcom.2020.154205>
2. Shalaev, A.; Shendrik, R.; Rusakov, A.; Bogdanov, A.; Pankratov, V.; Chernenko, K.; Myasnikova, A. Luminescence of divalent lanthanide doped BaBrI single crystal under synchrotron radiation excitations. – Nucl. Instrum. Methods Phys. Res. Sect. B, 2020, 467, 17-20, <https://doi.org/10.1016/j.nimb.2020.01.023>
3. Pankratova, V.; Purans, J.; Pankratov, V. Low-temperature luminescence of ScF₃ single crystals under excitation by VUV synchrotron radiation. – Fiz. Nizk. Temp., 2020, 46 (12), 1407-1412.
4. Pankratova, V.; Kozlova, A. P.; Buzanov, O. A.; Chernenko, K.; Shendrik, R.; Šarakovskis, A.; Pankratov, V. Time-resolved luminescence and excitation spectroscopy of Co-doped Gd₃Ga₃Al₂O₁₂ scintillating crystals. - Sci. Rep., 2020, 10 (1), <https://doi.org/10.1038/s41598-020-77451-x>
5. Pankratov, V.; Kotlov, A. Luminescence spectroscopy under synchrotron radiation: From SUPERLUMI to FINESTLUMI. – Nucl. Instrum. Methods Phys. Res. Sect. B, 2020, 474, 35-40, <https://doi.org/10.1016/j.nimb.2020.04.015>
6. Kozlova, A. P.; Kasimova, V. M.; Buzanov, O. A.; Chernenko, K.; Klementiev, K.; Pankratov, V. Luminescence and vacuum ultraviolet excitation spectroscopy of cerium doped Gd₃Ga₃Al₂O₁₂ single crystalline scintillators under synchrotron radiation excitations. - Results Phys., 2020, 16, <https://doi.org/10.1016/j.rinp.2020.103002>
7. Dendebera, M.; Chornodolskyy, Y.; Gamernyk, R.; Antonyak, O.; Pashuk, I.; Myagkota, S.; Gnilitskyi, I.; Pankratov, V.; Vistovskyy, V.; Mykhaylyk, V.; et al. Time resolved luminescence spectroscopy of CsPbBr₃ single crystal. - J Lumin., 2020, 225, <https://doi.org/10.1016/j.jlumin.2020.117346>



8. Pankratova, V.; Purans, J.; Pankratov, V. Low-temperature luminescence of ScF₃single crystals under excitation by VUV synchrotron radiation. - Low Temp. Phys., 2020, 46 (12), 1196-1200, <https://doi.org/10.1063/10.0002473>
9. Kozlova, A.O.; Buzanov, O.A; Pankratova, V.; Pankratov, V. Low-temperature luminescence of catangasite single crystals under excitation by vacuum ultraviolet synchrotron radiation. - Fizika Nizkikh Temperatur, Vo. 46, Issue 12, 2020, <https://doi.org/10.1063/10.0002471>

