

Projekta Izp-2019/1-0443 rezultāti

Jauni ilgspīdoši luminescenti materiāli - sarkanās gaismas starotāji

Origināli zinātniskie raksti, kuru citēšanas indekss sasniedz vismaz 50 procentus no nozares vidējā citēšanas indeksa, kas iesniegti, vai pieņemti publicēšanai Web of Science Core Collection, vai SCOPUS datubāzēs iekļautajos žurnālos vai konferenču rakstu krājumos:

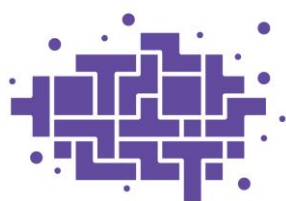
1. Berzina, B.; Trinkler, L.; Korsaks, V.; Ruska, R. Nitrogen vacancy type defect luminescence of AlN nanopowder. - Optical materials, 2020, <https://doi.org/10.1016/j.optmat.2020.110069>
2. Kriekē, G.; Antuzevics, A.; Berzina, B. Defect formation in photochromic Ca₂SnO₄: Al³⁺. - Materials Today Communications, 2021, <https://doi.org/10.1016/j.mtcomm.2021.102592>
3. Antuzevics, A.; Kriekē, G.; Doka, G.; Berzina, B. The origin of bright cyan persistent luminescence in Ca₂SnO₄:La³⁺. - Materialia, 2022, <https://doi.org/10.1016/j.matla.2022.101374>
4. Rogulis, U.; Kriekē, G.; Antuzevics, A.; Fedotovs, A.; Berzins, Dz.; Popov, A.; Pankratov, V. Low-temperature luminescence of La-doped Ca₂SnO₄. - Optical Materials, 2022, <https://doi.org/10.1016/j.optmat.2022.112545>
5. Berzina, B.; Ruska, R.; Cipa, J.; Trinkler, L.; Sarakovskis, A.; Grabis, J.; Steins, I. Luminescence of AlN:Eu ceramics: Properties and mechanisms. - Optical Materials, 2022, <https://doi.org/10.1016/j.optmat.2022.112217>
6. Berzina, B.; Ruska, R.; Cipa, J.; Trinkler, L.; Sarakovskis, A.; Grabis, J.; Steins, I. Luminescence of AlN:Mn²⁺ materials: Properties and mechanisms. - Results in Optics, 2022, <https://doi.org/10.1016/j.rio.2023.101365>
7. Doka, G.; Kriekē, G.; Antuzevics, A.; Sarakovskis, A.; Berzina, B. Optical properties of red-emitting long afterglow phosphor Mg₂Six-1GexO₄:Mn²⁺/Mn⁴⁺. - Optical Materials, 2022, <https://doi.org/10.1016/j.optmat.2023.113500>

Intelektuālais īpašums, kas ir reģistrēts Latvijā:

1. Ruska, R.; Cipa, J.; Berzina, B.; Trinkler, L.; Steins, I. AlN based persistent luminescence composite – red/blue light emitter. - FORAL Patent Law Offices, 2022

Jauna produkta vai jaunas tehnoloģijas, tai skaitā metodes, prototips:

1. Ruska, R.; Cipa, J.; Berzina, B. Excitation method of red/blue emitting AlN:Mn composite with potential applications in micro mobility safety. – 2022



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