

Projekta Izp-2018/2-0083 rezultāti

Hibrīda nanostrukturēto fotokatalītisko materiālu teorētiska prognoze efektīvai ūdens šķelšanai

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. Oras, S.; Vlassov, S.; Vigonski, S.; Polyakov, B.; Antsov, M.; Zadin, V.; Löhmus, R.; Mougine, K. The effect of heat treatment on the morphology and mobility of Au nanoparticles. Beilstein J. – Nanotechnology, 2020, 11, 61-67, <https://doi.org/10.3762/bjnano.11.6>
2. Lin, Y. P.; Polyakov, B.; Butanovs, E.; Popov, A. A.; Sokolov, M.; Bocharov, D.; Piskunov, S. Excited states calculations of MoS₂@ZnO and WS₂@ZnO two-dimensional nanocomposites for water-splitting applications. – Energies, 2022, 15 (1), <https://doi.org/10.3390/en15010150>
3. Lin, Y. P.; Isakoviča, I.; Gopejenko, A.; Ivanova, A.; Začinskis, A.; Eglitis, R. I.; D'yachkov, P. N.; Piskunov, S. Time-dependent density functional theory calculations of n- and s-doped TiO₂ nanotube for water-splitting applications. – Nanomaterials, 2021, 11 (11), <https://doi.org/10.3390/nano11112900>
4. Karbovnyk, I.; Klym, H.; Piskunov, S.; Popov, A. A.; Chalyy, D.; Zhydenko, I.; Lukashevych, D. The impact of temperature on electrical properties of polymer-based nanocomposites. - Low Temp. Phys., 2020, 46 (12), 1231-1234, <https://doi.org/10.1063/10.0002479>
5. Karbovnyk, I.; Klym, H.; Piskunov, S.; Popov, A. A.; Chalyy, D.; Zhydenko, I.; Lukashevych, D. The impact of temperature on electrical properties of polymer-based nanocomposites. – Fiz. Nizk. Temp., 2020, 46 (12), 1445-1449.
6. Antsov, M.; Polyakov, B.; Zadin, V.; Mets, M.; Oras, S.; Vahtrus, M.; Löhmus, R.; Dorogin, L.; Vlassov, S. Mechanical characterisation of pentagonal gold nanowires in three different test configurations: A comparative study. – Micron., 2019, 124, <https://doi.org/10.1016/j.micron.2019.102686>
7. Piskunov, S.; Isakoviča, I.; Putnina, M.; Popov, A. I. Ab initio calculations of the electronic structure for Mn²⁺-doped YAlO₃ crystals. – Fiz. Nizk. Temp., 2020, 46 (12), 1365-1370
8. Piskunov, S.; Isakoviča, I.; Putnina, M.; Popov, A. I. Ab initio calculations of the electronic structure for Mn²⁺-doped YAlO₃ crystals. - Low Temp. Phys., 2020, 46 (12), 1160-1164, <https://doi.org/10.1063/10.0002468>



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