

## Projekta Izp-2020/1-0261 rezultāti

### Kodola-apvalka nanovadu heterostruktūras no lādiņa blīvuma viļņu materiāliem optoelektronikas 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. Butanovs, E.; Kadiwala, K.; Gopejenko, A.; Bocharov, D.; Piskunov, S.; Polyakov, B. Different strategies for GaN-MoS<sub>2</sub> and GaN-WS<sub>2</sub> core-shell nanowire growth. - Applied Surface Science, 2022, <https://doi.org/10.48550/arXiv.2205.14991>
2. Butanovs, E.; Kuzmin, A.; Zolotarjovs, A.; Vlassov, S.; Polyakov, B. The role of Al<sub>2</sub>O<sub>3</sub> interlayer in the synthesis of ZnS/Al<sub>2</sub>O<sub>3</sub>/MoS<sub>2</sub> core-shell nanowires. - Journal of Alloys and Compounds, 2022, <https://doi.org/10.48550/arXiv.2205.14992>
3. Vlassov, S.; Bocharov, D.; Polyakov, B.; Vahtrus, M.; Šutka, A.; Oras, S.; Zadin, V.; Kyritsakis, A. Critical review on experimental and theoretical studies of elastic properties of wurtzite structured ZnO nanowires. - Nanotechnology Reviews, 2023, <https://doi.org/10.1515/ntrev-2022-0505>
4. Pudza, I.; Bocharov, D.; Anspoks, A.; Krack, M.; Kalinko, A.; Welter, E.; Kuzmin, A. Unravelling the interlayer and intralayer coupling in two-dimensional layered MoS<sub>2</sub> by X-ray absorption spectroscopy and ab initio molecular dynamics simulations. - Materials Today Communications, 2023, <https://doi.org/10.48550/arXiv.2306.01478>
5. Pudza, I.; Polyakov, B.; Pudzs, K.; Welter, E.; Kuzmin, A. Temperature-dependent local structure and lattice dynamics of 1T-TiSe<sub>2</sub> and 1T-VSe<sub>2</sub> probed by X-ray absorption spectroscopy. - Condensed Matter, 2023, <https://doi.org/10.48550/arXiv.2401.16118>