

# Давид Арменович Казарян

✉ davitghazaryan@ysu.am



## Научно-исследовательский институт физики

Лаборатория ведущих функциональных материалов

Заведующий лабораторией

## Знание языков

English Русский

## Публикации

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### **Topographically-guided van der Waals epitaxy: Selective growth of AlN nanowalls on h-BN step edges**

Albert M. Dautov, Vladimir G. Dubrovskii, Talgat Shugabaev, Vera V. Lendyashova, Konstantin P. Kotlyar, Alexey Kuznetsov, Prokhor A. Alekseev, Mikhail E. Popov, Igor V. Shtrom, Adilet Toksumakov, Davit Ghazaryan, Alesya V. Parfeneva, Aleksey V. Arsenin, Alexey D. Bolshakov, George E. Cirilin, Vladislav O. Gridchin  
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### **Inelastic resonant tunnelling through adjacent localised electronic states in van der Waals heterostructures**

E. E. Vdovin, K. Kapralov, Yu. N. Khanin, A. Margaryan, K. Watanabe, T. Taniguchi, C. Yang, S. V. Morozov, D. A. Svintsov, K. S. Novoselov, D. A. Ghazaryan  
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### **Artificial intelligence guided search for van der Waals materials with high optical anisotropy**

Liudmila A. Bereznikova, Ivan A. Kruglov, Georgy A. Ermolaev, Ivan Trofimov, Congwei Xie, Arslan Mazitov, Gleb Tselikov, Anton Minnekhanov, Alexey P. Tsapenko, Maxim Povolotsky, Davit A. Ghazaryan, Aleksey V. Arsenin, Valentyn S. Volkov, Kostya S. Novoselov  
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### **Optical Properties of Biaxial van der Waals Crystals for Photonic Applications**

A. Slavich, G. Ermolaev, I. Zavidovskiy, D. Grudinin, M. Tatmyshevskiy, A. Toksumakov, A. Syuy, A. Vyshnevyy, D. Yakubovsky, S. Novikov, D. Ghazaryan, A. Arsenin, V. Volkov  
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Kostya Sergeevich Novoselov, Aleksey Vladimirovich Arsenin, Valentyn Sergeevich Volkov,  
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**Exploring van der Waals materials with high anisotropy: geometrical and optical approaches**

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**Infrared photodetection in graphene-based heterostructures: bolometric and thermoelectric effects at the tunneling barrier**

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**Programmable Carbon Nanotube Networks: Controlling Optical Properties Through Orientation and Interaction**

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A. Vasil'ev, Y. Melikyan, M. Zhezhu, V. Hayrapetyan, M.S. Torosyan, D.A. Ghazaryan, M. Yerosyan, H. Gharagulyan

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**Hexagonal boron nitride nanophotonics: a record-breaking material for the ultraviolet and visible spectral ranges**

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**Anomalous optical response of graphene on hexagonal boron nitride substrates**

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**Field-induced insulating states in a graphene superlattice**

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