

## 📖 Публикации

Статья

### **Formation of zinc oxide composites of doxycycline with high antibacterial activity based on DC-magnetron deposition of ZnO nanoscale particles on the drug surface**

Ashkhen L. Zatikyan, Armen I. Martiryan, Emma R. Arakelova, Ashot M. Khachatryan, Anait A. Mirzoian, Susanna L. Grigoryan, Rafayel E. Muradyan, Hrachik R. Stepanyan, Stepan G. Grigoryan,

Mkrtich A. Yeranosyan

Applied Physics A: Materials Science and Processing 2024 152

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### **E-beam induced micropattern generation and amorphization of L-cysteine-functionalized graphene oxide nano-composites**

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

M.S. Torosyan, A. kharatyan, J. Michalicka, M. Yeranosyan

Colloids and Interface Science Communications 2024 100766-7

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### **Essential L-Amino Acid-Functionalized Graphene Oxide for Liquid Crystalline Phase Formation**

H. Gharagulyan, Y. Melikyan, V. Hayrapetyan, Kh. Kirakosyan, D.A. Ghazaryan, M. Yeranosyan

Materials Science and Engineering: B 2023 116564

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### **Նանոտեխնոլոգիաներն արմատապես փոխում են երկրների ռազմավարական առաջնահերթությունները**

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Գիտության աշխարհում 2023 34-41

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### **The Use of Biosilica to Increase the Compressive Strength of Cement Mortar: The Effect of the Mixing Method**

Nelli G. Muradyan, Avetik A. Arzumanyan, Marine A. Kalantaryan, Yeghiazar V. Vardanyan,

Mkrtich Yeranosyan, Malgorzata Ulewicz, David Laroze, Manuk G. Barseghyan

MATERIALS 2023 5516

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### **Antibacterial activity of royal jelly-mediated green synthesized silver nanoparticles**

Susanna Gevorgyan, Robin Schubert, Mkrtich Yeranosyan, Lilit Gabrielyan, Armen Trchounian,

Kristina Lorenzen, Karen Trchounian

AMB Express 2021 51

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### **Zinc Oxide Composites of Doxorubicin in the Form of Coating, Composite Films and Gels with**

**a High Antitumor Activity and Low Toxicity**

Emma R. Arakelova, Stepan G. Grigoryan, Ashot M. Khachatryan, Anahit A. Mirzoian, Zoya M. Farmazyan, Susanna L. Grigoryan, Mkrtich A. Yeranossyan, Flora G. Arsenyan, Rafayel E. Muradyan, Hrachik V. Gasparyan  
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*Статья*

**Energy loss rate of hot electrons due to polar-optical phonon modes in a semiconductor nanowire under transverse electric field**

A. Stepanyan, A. Asatryan, M. Yeranossyan, K. Vardanyan, A. Kirakosyan, A. Vartanian  
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**Influence of spin-orbit interactions on the polaron properties in wurtzite semiconductor quantum well**

Mkrtich A. Yeranossyan, Arshak L. Vartanian, Karen A. Vardanyan  
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**Phonon confinement effect on the polaron states in a double quantum ring structure in the presence of electric and magnetic fields**

Mkrtich A. Yeranossyan, Arshak L. Vartanian, Abbas Shahbandari, Albert A. Kirakosyan  
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**Spin-orbit interaction enhanced polaron effect in wurtzite semiconductor quantum well.**

M.A. Yeranossyan, K.A. Vardanyan, A.L. Vartanian, A.A. Kirakosyan

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**Effect of Rashba and Dresselhaus spin-orbit interactions on the polaron properties in wurtzite semiconductor quantum dot in the presence of external fields.**

M.A. Yeranossyan, K.A. Vardanyan, A.L. Vartanian, A.A. Kirakosyan

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*Конференция*

**The influence of the transverse electric field on the hot electron energy loss rate via polar-optical phonons in nanowires**

A.Asatryan, A.Stepanyan, M.Yeranossyan, A.Kirakosyan, A.Vartanian

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*Конференция*

**Investigation of Antibacterial Properties of Green Synthesized Silver Nanoparticles**

S. Gevorgyan, M. Yeranossyan, R. Schubert, A. Trchounian

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*Конференция*

**Filtering of terahertz radiation by a metasurface structure**

Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yerosyan Mkrich

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*Конференция*

**Stability Controlling of L-arginine- and L-nitroarginine-Functionalized Graphene Oxide**

Yeghvard MELIKYAN, Alexey VASIL'EV, Marina ZHEZHU, Elen MNATSAKANYAN, Deren PETROSYAN,

Mkrich YERANOSYAN, Ruben APREYAN, Hermine GHARAGULYAN

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