

## Institute of Physics

Կիսահաղորդիչների Փիզիկայի և միկրոէլեկտրոնիկայի ամբիոն  
Lecturer on an hourly basis

## Publications

### Article

#### **Nanostructures Nucleation Features and Miscibility Analysis in Zinc-Blend and Wurtzite GaN-InN-AlN Material System**

A.K. Simonya, K.M. Gambaryan, V.M. Aroutiounian

Journal of Nanoscience and Technology 2017 253-255

<http://www.jacsdirectory.com/jnst>

### Article

#### **Growth features and nucleation mechanism of $\text{Ga}_{1-x-y}\text{In}_x\text{Al}_y\text{N}$ material system on GaN substrate**

Arpine K. Simonyan, Karen M. Gambaryan, Vladimir M. Aroutiounian

Advances in Nano Research 2017 303-311

### Article

#### **Competing nucleation of islands and nanopits in zinc-blend III-nitride quaternary material system**

K M Gambaryan, V M Aroutiounian, A.K. Simonyan, L S Yeranyan

Journal of Physics: Conference Series 2016 012009 (4 pages)

<http://iopscience.iop.org/journal/1742-6596>

### Article

#### **Strain-induced islands and nanostructures shape transition's chronology on InAs (100) surface**

K.M. Gambaryan, V.M. Aroutiounian, A.K. Simonyan, Y. Ai, E. Ashalley, Z.M. Wang

Advances in Nano Research 2014 211-217

<http://www.techno-press.org/?journal=anr&subpage=1>

### Conference

#### **GalnAIN material system: nanostructures growth features and immiscibility analysis**

A.K. Simonyan, K.M. Gambaryan, V.M. Aroutiounian

### Conference

#### **Nanostructures Growth Features in GalnAIN Quasiterinary Material System**

K.M. Gambaryan, A.K. Simonyan

### Conference

#### **Competing nucleation of islands and nanopits in zinc-blend and wurtzite GaN-InN-AlN quaternary material system**

Ղամբարյան Կարեն, Սիմոնյան Արմեն, Բաղդիան Երան