

## Publications

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*Article*

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

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

Journal of Nanoscience and Technology 2017 253-255

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

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*Article*

**Growth features and nucleation mechanism of Ga<sub>1-x</sub>YIn<sub>x</sub>Al<sub>y</sub>N material system on GaN substrate**

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

Advances in Nano Research 2017 303-311

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*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>

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*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>

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*Conference*

**GaNAlN material system: nanostructures growth features and immiscibility analysis**

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

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*Conference*

**Nanostructures Growth Features in GaInAlN Quasiternary Material System**

K.M. Gambaryan, A.K. Simonyan

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*Conference*

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

Ղամբարյան Կարեն, Սիմոնյան Արփիլնե, Բաղդյան Երան

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