

Tigran Andranik Zalinyan

✉ tigran.zalinyan@ysu.am

Research Institute of Physics

Center for Semiconductor Devices and Nanotechnologies
Junior Researcher

🎓 Education

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2015 - 2018
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2013 - 2015
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2008 - 2012
Degree name	Bachelor

🎓 Scientific Rank/degree

Institution	Yerevan State University
Date	2020
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Melkonyan Slavik
Research Topic	Electron Lattice Mobility Noises in Polar Semiconductors

🌐 Language skills

Հայերեն Русский English

📁 Work experience

Institution	YSU STEM School
Period of time	2023 till now
Rank/degree	Teacher

Institution	Yerevan State University
Period of time	2022 till now
Rank/degree	Junior scientific researcher

Institution	Yerevan State University
Period of time	2021 till now
Rank/degree	Lecturer

Institution	Yerevan State University
Period of time	2015 - 2018
Rank/degree	Laboratory assistant

Scientific interests

- Physics of semiconductors and semiconductor devices
 - Transport phenomena and mobility noises in semiconductors, semiconductor nanostructures and graphene
-

Publications

Article

Electron Mobility Fluctuations in Polar Semiconductors [Флуктуации подвижности электронов в полярных полупроводниках]

T. A. Zalinyan, S. V. Melkonyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 426-436

Article

Basic principles of resonance Rayleigh scattering in Graphene

S.V. Melkonyan, T.A. Zalinyan

Carbon Letters 2023 1783-1789

Manual

Վեկտորական հանրահաշվի տարրերը

Զալինյան Տիգրան Անդրանիկի, Վարդանյան Ռուբեն

2022 28

Article

The Equation of Electron Diffusion in the Momentum Space in Graphene

T.A. Zalinyan, S.V. Melkonyan

Armenian Journal of Physics 2022 112-119

Article

Electron Mobility Non-Damping Fluctuations in Semiconductors

Slavik V. Melkonyan, Tigran A. Zalinyan, Sargis S. Melkonyan

FLUCTUATION AND NOISE LETTERS 2018 1850018(1-15)

Article

Relaxation Time of Electron - Polar Optical Phonon Field-Induced Tunnel Scattering

T.A. Zalinyan

Armenian Journal of Physics 2018 91-100

Article

Կիսահաղորդիչներում էլեկտրոնային համակարգի հավասարակշիռ վիճակից սիմետրիկ շեղումների մարման օրինաչափությունները

Տիգրան Չալինյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2017 237-245

Article

Electron-acoustic phonon field induced tunnel scattering

T.A. Zalinyan, S.V. Melkonyan, A.L. Harutyunyan

Condensed Matter Physics 2015 23702/ 1-12

Article

Electron Mobility Noise Spectral Density and Variance in a Semiconductor

T.A. Zalinyan, S.V. Melkonyan, A.L. Harutyunyan

Armenian Journal of Physics 2014 224-243

Conference

Electron lattice mobility fluctuations in equilibrium semiconductors

T.A. Zalinyan, S.V. Melkonyan
