

Slavik Volodia Melkonyan

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Institute of Physics

Chair of Materials Science and Nanotechnology

Professor

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Professor

Research Institute of Physics

Նյութագիտության և նանոտեխնոլոգիաների գիտական
կենտրոն

Scientific Worker

Education

Institution	Yerevan State University
Faculty	faculty of radiophysics
Date	1975 - 1980
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2016
Degree name	Professor

Institution	Yerevan State University
Date	2007
Degree name	Doctor
Research Topic	Equilibrium phonon 1/f fluctuations of electron lattice mobility in homogeneous semiconductors

Language skills

Русский English

Work experience

Institution	Yerevan State University
Period of time	1980 till now

Rank/degree professor

Membership

Institution Physics scientific council 049, YSU
Period of time 2020 till now

Publications

Article

Graphene Raman G Scattering Kinematics

Sargis Melkonyan, Tigran Zalinyan, Slavik Melkonyan

Journal of Raman Spectroscopy 2026 297-304

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/jrs.70046>

Article

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

T. A. Zalinyan, S. V. Melkonyan

Proceedings of NAS RA Physics 2024 426-436

Article

Basic principles of resonance Rayleigh scattering in Graphene

S.V. Melkonyan, T.A. Zalinyan

Carbon Letters 2023 1783-1789

Article

On the interpretation of single and bilayer graphene minimal conductivity

Slavik V. Melkonyan

Universal Journal of Carbon Research 2023 56-65

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

Coulomb mechanism of Raman radiation in graphene

S.V. Melkonyan

Carbon Letters 2021 1051-1059

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)

Conference

On the theory of intravalley Raman scattering in intrinsic graphene

S.V. Melkonyan

2017 9-13

<http://www.icsmn.ysu.am/11th%20ICSMN-Proceedings.pdf>

Conference

Electron lattice mobility fluctuations in equilibrium semiconductors

T.A. Zalinyan, S.V. Melkonyan

2017 14-18

<http://www.icsmn.ysu.am/11th%20ICSMN-Proceedings.pdf>

Article

Electron-acoustic phonon field induced tunnel scattering

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

Condensed Matter Physics 2015 23702/ 1-12

Study manual

Կիսահաղորդիչների օպտիկայի հիմունքներ

Սլավիկ Վոլոդյայի Մելքոնյան

2015 155

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
