

Tigran A. Sargsyan

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EDUCATION

- **01.2021-up to now**, President of SPIE's (Society of Photo-optical Instrumentation Engineers) Russian-Armenian University and National Academy of Sciences Chapter.
- **2020-up to now**, PhD, Semiconductor Physics, Department of General Physics and Quantum Nanostructures, Russian-Armenian University, Yerevan, Armenia.
- **2018-2020**, Master's degree, Microelectronics and Nanoelectronics, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia (Diploma with honors).
- **2014-2018**, Bachelor's degree, Electronics and Nanoelectronics, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia (Diploma with honors).

PUBLICATIONS

- Gonçalves, M., Melikyan, A., Minassian, H., Makaryan, T., Petrosyan, P. and Sargsian, T., 2021, February. Interband, Surface Plasmon and Fano Resonances in Titanium Carbide (MXene) Nanoparticles in the Visible to Infrared Range. In Photonics (Vol. 8, No. 2, p. 36). Multidisciplinary Digital Publishing Institute.
- Sargsian, T.A., Mkrtchyan, M.A., Sarkisyan, H.A. and Hayrapetyan, D.B., 2021. Effects of external electric and magnetic fields on the linear and nonlinear optical properties of InAs cylindrical quantum dot with modified Pöschl-Teller and Morse confinement potentials. Physica E: Low-dimensional Systems and Nanostructures, 126, p.114440.
- Sargsian, T.A., 2019. Absorption Spectra of Hydrogen-Like Donor Impurity in GaAs Quantum Well with Modified Pöschl-Teller Potential. Journal of Contemporary Physics (Armenian Academy of Sciences), 54(2), pp.168-174.

CONFERENCES AND SCHOOLS

- International Conference "International Youth Conference on Electronics, Telecommunications and Information Technologies" (YETI-2021), 22-23 April, 2021, Saint Petersburg, Russia.
- Young Scientists Conference «Physics of Nanostructures», 7-8 December, 2020, Yerevan, Armenia.
- V INTERNATIONAL CONFERENCE OF BIOTECHNOLOGY AND HEALTH, 29-31 October 2020, Yerevan, Armenia.
- Annual Research Conference of Russian-Armenian University, 2-6 December 2019, Yerevan, Armenia.

- International Conference Laser Physics 2019 organized by the Institute for Physical Research (IPR) of NAS of Armenia, 17–20 September 2019, Ashtarak, Armenia.
- Participation in International School of Optics and Photonics, 1-7 July 2019, Yerevan, Armenia.
- Annual Student Scientific Conference of Russian-Armenian University, 26-30 April 2019, Yerevan, Armenia.

EXPERIENCE

- **01.2021-up to now**, Participant in Project “Controllable Exciton Transport In 2D Hybrid Organic-Inorganic Perovskites”, The Science Committee of the Republic of Armenia and Russian Foundation for Basic Research.
- **09.2020-up to now**, Teaching Assistant, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia.
- **09.2018-08.2020**, Participant in Project “Optical Properties of MXenes - Novel 2D Nanostructures”, The Science Committee of the Republic of Armenia.
- **02.2020-07.2020**, Participant in Project “Synthesis of micro-porous matrices based on inorganic composite compounds with various pore sizes and study of their physical characteristics”, Funded by Philip Morris Armenia LLC and Enterprise Incubator Foundation.

AWARDS AND HONORS

- **2019**, Nationwide competition for “Best Student”, award in the field of engineering.
- **2019-2020**, Samvel Kocharyants Scholarship.
- **2019-2020**, Scholarship of the Government of Russian Federation.
- **2018-2019**, Scholarship of the Mayor of Moscow.
- **2018**, Russian-Armenian University “Student of the Year” award.