



Assoc. Prof. Dr. Sergiu VATAVU

Moldova State University / Faculty of Physics and Engineering

Sergiu Vatavu, earned his doctoral degree in physics and mathematics in 2006 and has fulfilled the position of associate professor at the Faculty of Physics and Engineering of the Moldova State University (MSU) since 2009. He has been the Chair of the Department of Applied Physics and Computer Science at the Faculty starting with 2016 up to 2025. He has teaching interests focusing on both courses in General Physics as well as on Physics of Semiconductors and Devices based on them.

Dr. Vatavu's scientific interests include binary and ternary compounds based on AlIBVI, AlIIBVI, AlIIBV materials as thin films and single crystals (CdS, CdTe, CdZnTe, CdZnSeTe, InP, ZnSnN₂, GaS, Ga₂S₃, GaSe) having applications in electromagnetic radiation detection and conversion. Current interests also focus on chromic materials (NiO, VO₂) and high-entropy oxides. The technological and characterization methods of interest include (but are not limited to): CSS, PVD, Spray Pyrolysis, CCSVT, Magnetron sputtering. Investigation of J-VT, C-V-f, QE, XRD, SEM, AFM, PL, LA-ICPMS, KP, PYS, XRF, MAD.

Dr. Vatavu was awarded to Fulbright Visiting Scholar Program of the U.S. Department of State in 2012. Nowadays he is the director of several international projects running at MSU.