

Dr Katarzyna Hnida-Gut received a PhD degree in chemistry from Jagiellonian University in Krakow, Poland in 2014. After, PhD she worked as an Assistant Professor at AGH University of Science and Technology, Krakow, Poland where she was working on the synthesis of functional nanomaterials by electrochemical methods, their characteristics, and application in nano/microstructural chemical sensors, nanomotors, or nanoelectronic devices. During her academic work, she has dealt with a wide spectrum of nanomaterials, from porous oxides, nanowires, thin films, and nanotubes made of metals, metallic composites, and organic-inorganic hybrids, through conductive polymers up to III-V semiconductor nanostructures. As a Marie Skłodowska-Curie Fellow, she joined IBM Research – Europe, Zurich, Switzerland in 2020. Katarzyna's research and outreach activities focused on adopting alternative synthesis paths for III-V semiconductor integration on silicon, nanoscale fabrication technologies, and device characterization. During her fellowship at IBM Research – Europe, she was looking into the application of electrodeposited InSb-based nanodevices e.g. quantum computing. During this time, she was also involved in technology development for RTD and FET integration for pulse generator devices and explored the possibilities of implementing electrodeposited nanowires for close-loop regulation of cellular electrical activity. In 2022 Dr Hnida-Gut joined Leibniz-Institut für innovative Mikroelektronik, Frankfurt (Oder), Germany where she continues her work on III-V materials growth and integration for photonic and optoelectronic integrated circuits. Katarzyna holds 2 patents, multiple poster/presentation awards, and Excellence University awards. She has co-authored over 20 peer-reviewed publications.