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He is metallurgical engineer with 20+ years of practice in various physical and chemical technologies of nanocomposite manufacturing, including ceramic processing, nano-milling, hydrothermal, powder metallurgy, sintering, electrospinning. His research area is covering R&D of high performance materials for medical, sensor and high temperature applications. He was involved in the development of nanoporous hexagonal tungsten oxide materials for gas sensorics, carbon nanotube/graphene nano-platelet added silicon nitride ceramic composites for tribological applications and several other nanocomposites, including nano-ceramic dispersion strengthened steels for nuclear/HT applications and biogenic calcium-phosphate based biocompatible composites for orthopedics. He is co-author in 200 publications, 9 patents and is principal investigator in several national (OTKA, NKFIH, TÉT, Eötvös, Bolyai) and international (FP7, NATO, NSF, ESA, H2020, EIT KIC RAW, Flag-ERA, NKFIH-TÜBITAK) research grants.

He is President of Fine Ceramics section of the Hungarian Scientific Society of Silicate Industry (SZTE) and Representative of SZTE in International Ceramic Federation (ICF), Fellow of the European Ceramic Society, Member of Council Board and Permanent Executive Committee (ECERS), Board Member of the Hungarian Society of Materials Science (MAE), Member of the American Ceramic Society (ACERS), Executive Committee Member of Federation of European Materials Societies (FEMS) and Steering Committee Member of Energy Materials Industry Research Initiative (EMIRI).