

Zsolt Fogarassy

1125 Budapest, Óra út 10/a **Place and date of birth:** Budapest, 9th of October 1984

Email: fogarassy.zsolt@energia.mta.hu **Phone:** +36-20-265-9459

STUDIES

1998-2003 László Kalmár Computer Technology High School

2003-2008 **Physics and Informatics Science at the Eötvös Loránd University, Budapest**

- 2007-2008 Specialization in material science
- Diploma thesis: "Severe plastically deformed ultra fine crystallite Ti microstructure characteristic by TEM and X-ray diffraction line profile analysis"
- I was a co-worker in 3 publications about the X-ray diffraction line profile analysis of different type of materials produced by severe plastically deformation
- 2009-2012 Ph.D. studies at the **Ph.D. Physics School of Eötvös Loránd University**
- Supervisor: Dr. János Lábár, D.Sc.
- Ph.D. thesis: **Development and characterization of material structures prepared by different physical and chemical vapor deposition methods**
- Ph.D. defense in 2015, **summa cum laude**
- 2009 – 2016 young researcher at the Hungarian Academy of Sciences - Research Institute for Technical Physics and Materials Science (MTA - EK – MFA)
- 2016 – research assistant/fellow at the Hungarian Academy of Sciences - Research Institute for Technical Physics and Materials Science (MTA - EK – MFA)

ACTUALLY

From 2016 I have started to work as a Research Fellow in the MTA-EK-MFA. My research is to develop and characterize the micro and nanostructure of different materials like TiC mixed with multi-layer graphene used for hard coatings, Ni/graphene growth as a buffer layer in transistors using conventional TEM and HRTEM and spectroscopic techniques. My aim is to reveal the structural defects, to reconstruct and understand the growth mechanism and their structural formation. At the moment I participate in two European research projects:

- EU FP 7, „HypOrth”, 2013 – 2018, New approaches in the development of Hypoallergenic implant material in Orthopaedics: steps to personalised medicine, EU FP7 (300 MFt), percipient
- M-ERANET “Grace”, 2014 – 2017, Graphene-ceramic composites for tribological application in aqueous environments (53 MFt), percipient

LANGUAGES

Hungarian (mother tongue), English (intermediate level), German (basic level)

PUBLICATIONS

To the January of 2017 I am a co-author of **20** reviewed communications, which were cited **88** times in reviewed publications.