Balazs KOBZI

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Date of birth: 15. February 1988.

EXPERIENCE

10.2019 – 02.2022: Post doctoral position; University of Normandie Rouen (CRNS), Rouen

- main objective: designing suitable catalytic materials for future hydrogen generation
- collaborative research project with University of Caen
- structural characterization of complex iron oxide ceramic materials
- ^{57}Fe and ^{119}Sn Mössbauer spectroscopy
- Raman spectroscopy
- identifying crystal phases with X-ray Diffractometry
- preparing research papers for publication, attending conferences and venues to present our work

07.2019 – 09.2019: Invoice validating; Schneider Electric, Budapest

- validating electric and gas invoices of our clients
- checking and reporting discrepancies to management and providers
- greatly improved my Microsoft Excel capabilities

09. 2010 – 07. 2011: Research projects; Eötvös Loránd University, Budapest

- participation in several smaller projects with the colloidal chemistry research group
- Modelling cell membranes with self assembled lipid bilayers
- OWLS (Optical Waveguide Lightmode spectroscopy)
- QCM (quartz crystal microbalance)
- AFM (Atomic force microscope) images in water

EDUCATION

04.2015 – 09.2018: Ph.D. in Chemistry; Tokyo Metropolitan University, Tokyo

- Synthesizing silica-based ceramics with sol-gel technique
- Measuring photocatalytic properties by dye degradation method and UV-Vis spectroscopy
- structural characterization: ^{57}Fe and ^{119}Sn Mössbauer spectroscopy, TEM (Transmission electron microscopy, SEM (Scanning electron microscopy), X-ray Diffractometry

09.2013 – 03.2015: Ph.D. in Chemistry; Eötvös Loránd University, Budapest

- Preparation of silica and alumina composite materials in cryogel and aerogel form

- Stuctural characterization: X-ray Diffractometry, SEM (Scanning electron microscopy)
- Teaching and leading analytical and nuclear chemistry laboratory seminars
- I continued my studies in Tokyo after being awarded with a scholarship

09.2011 – 08.2013: M.S. Materials Science; Eötvös Loránd University, Budapest

- Surface and colloidal chemistry, cell membrane models
- structural characterization techniques: AFM, OWLS (Optical Waveguide Lightmode spectroscopy)

09.2009 – 08.2011: B.S. Chemistry; Eötvös Loránd University, Budapest

09.2006 – 08.2009: B.S. Physics; Eötvös Loránd University, Budapest

LANGUAGE SKILLS

ENGLISH	very good command
JAPANESE	working knowledge
HUNGARIAN	first language

SKILLS

- Expert user experience with Excel, Word and PowerPoint
- Solid experience in chemical reactions and preparations
- Deep knowledge in spectroscopy techniques, both quantitative and qualitative
- Capable of independent work, willing and excited to learn new skills