

New team member – boosting research in all-solid-state batteries

Mutlucan Sozak started on November, 2nd

Welcome, Mr. Sozak!

The powder aerosol deposition team is now working with additional manpower on lithium all-solid-state batteries. Mutlucan Sozak, M.Sc., supports the group as a project engineer and doctoral student.

Mutlucan Sozak graduated from Istanbul University in 2013, Department of Metallurgical and Materials Engineering, and obtained a master's degree from the same department in 2016. During his first semester of master



studies, he participated in a research project on the development of transparent ceramics at Materials Institute/TUBITAK Marmara Research Center (MRC) as a scholarship student. In this project, he gained experience on ceramic powder preparation processes for the solid-state reaction of oxide powders. He investigated the effects of powder preparation steps on the phase transformation and optical properties of polished yttrium aluminum garnet (YAG) ceramics. He utilized XRD, SEM/EDX, AFM, UV-Vis/Raman spectroscopy techniques for characterization.

After completing his master's in 2016, he stayed there at the Materials Institution as a researcher. He worked for four years as a member of the ceramics and composites group. He continued his studies on solid-state and wet-chemical synthesis of YAG ceramics. In parallel, he worked on the powder metallurgy of molybdenum alloys.

He has been married to his wife for two and a half years. He is "father" of a fluffy cat called Shiny. Scuba diving, playing electric guitar, travelling and photography are among his hobbies. Motorcycles, electric vehicles and basketball are his special interests.