

**Prof. Dr. Bahadır Tunaboğlu**

1. Solar PV technology and tracking system performance analysis
2. Battery materials and systems for Electric Vehicles and home-energy storage
3. Biogas tech and system from sludge-waste

**Prof. Dr. Cevat Sarioğlu**

1. Solar energy: PV cells and hydrogen production by splitting of water
2. Antibacterial surfaces
3. High temperature corrosion of jet engine alloys

**Prof. Dr. Arif Nihat Güllüoğlu**

1. Welding selection for high pressure LPG tanks
2. Surface modification of Ti6Al4V produced by additive manufacturing

**Prof. Dr. Engin Erkmen**

1. The Modelling of 4 Component Phase Equilibrium System under Solidus Region
2. The investigation of the sintering parameters of Alumina with respect to grain size, temperature and sintering time
3. Investigation of temperature grain size and time parameters in the synthesis of Mullite via optical and/or electron microscopy
4. Investigation of temperature grain size and time parameters in the synthesis of Mullite via optical and/or electron microscopy
5. Investigation of radar absorbant paintings, drying kinetics and efficiency
6. Investigation of boron use in nuclear reactors and its possible laboratory applications
7. Investigation of Nuclear Fuels and their possible laboratory applications
8. A conceptual design of a submarine adapted for Siha-lha carriage (20-40 pieces) and its possible hydrolic take-off platform

**Prof. Dr. Kaşif Teker**

1. Statistical analysis of the effect of temperature and gas flow on semiconductor nanowire growth (mainly from SEM images).
2. Fourier transform infrared spectroscopy (FTIR) analysis of semiconductor nanowires.
3. Study of effective distribution of metal nanoparticles in a medium (IPA, Methanol, Water etc.).
4. Analysis of the nanoparticle formation/distribution from a thin film (gold).

**Prof. Dr. Recep Artır**

1. Deformability of Magnesium Alloys
2. Toughening of Boron Carbide by Infiltration for Ballistic Applications
3. Surface Modification of Low Carbon Steel via Aluminising

**Doç.Dr. Serdar Aktaş**

1. Design of experiments for antimony recovery in acidic media
2. Design of a technique for a green Pd recovery from Pd waste solutions
3. Design of experiments by Taguchi method for Pd recovery using ion exchange resins.

**Dr. Öğretim Üyesi Seval Genç**

1. Optimization of MR fluid production
2. Investigation of magnetic metal organic frameworks (MMOF) for water purification
3. Investigation of MR elastomers.

**Dr. Öğretim Üyesi Hüseyin Adanır**

1. Joining of Al alloys by FSM
2. Grain size effect on surface hardening of steel

**Dr. Öğretim Üyesi Mehmet Masum Tuncay**

1. Coating selection for Titanium alloy to improve its properties for the Aerospace industry

**Dr. Öğretim Üyesi Görkem Yumuşak**

1. Production of advanced electronic ceramic materials for communication applications and investigation of their microstructures and phase stabilities
2. Investigation of the effects of different alpha and beta stabilizer elements on the properties of various titanium alloys (bulk or thin films)