**2018-19 Fall Graduate Applications**

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| **ACADEMIC ADVISOR** | **THESIS SUBJECT** |
| Prof.Dr. İshak Karakaya | 1. An experimental study of electrochemical mold fabrication for composite parts  2. Surface modification of titanium alloys for aerospace applications  3. Development of high-temperature oxidation-resistant coatings for  aerospace applications |
| Prof.Dr.Abdullah Öztürk | 1.Synthesis and characterization of photo-functional materials |
| Dr.Öğr.Üyesi Batur Ercan | 1.Synthesis of hydroxyapatite using microfluidics for orthopedic applications |
| Prof.Dr. Cevdet Kaynak | 1.A Special Topic on “Biopolymer Based Nanocomposites |
| Prof.Dr. Amdulla Mekhrabov | 1.Modelling And Sımulatıons Of Phase Changes In L12-Type Ordered Alloys Under High-Energy Particles Irradıatıons  2.Modelling and Simulatıons of The Effect Of Crystalline Defects on The Energy Spectrum of Cd1-Xmnxte Semımagnetic Semiconductor Compounds  3. Design and Development of Ni-Based Nanoalloys By Computer Modelling and Sımulatıons (Ab Initio, Monte Carlo, Molecular Dynamics Etc.)  4. Design and Development of Bulk Amorphous (Metallic Glass) Alloys by Computer Modelling and Simulations (Ab Initio, Monte Carlo, Molecular Dynamics Etc.)  5. Production by High-Energy Ball Milling and Structural Characterizatıon Of Ni-Ti Nanoalloys  6. Effect of Ternary Alloying Elements Addition On Phase Stability And Phase Transformatıons In Ti-Nb Alloys |
| Doç.Dr. Y.Eren Kalay | 1.The Local Structure and Chemistry in Marginal Glass Forming Alloys |
| Prof.Dr. Arcan F.Dericioğlu | 1.Heat Treatment of Nickel-Based Super Alloys Fabricated by Selective Laser Melting 2.Fabrication of Nickel-Based Super Alloys by Electron Beam Melting and Their Heat Treatment  3.Development of Tunable Materials for Electromagnetic Applications |
| Prof.Dr.Tayfur Öztürk | 1- MnO2 esaslı katod malzemelerin doldurulabilir piller için geliştirilmesi (TUBİTAK 1003 Projesi)  2- Çoklu Yaklaşım Yöntemi ile Saydam İletken Oksit Kaplamaların Geliştirilmesi(1003 projesi)  3- Kombinatoryal yaklaşımla LSF esaslı kompozit katodların orta sıcaklık katı oksit yakıt pilleri için geliştirilmesi (TÜBİTAK 1001)  4- Hidrojen Saflaştırıcı Cihazlar için Düşük Maliyetli Kapileri Membran Geliştirme (TUBİTAK 1001) |
| Doç.Dr. H. Emrah Ünalan | 1. Carbon nanotube and nanowire electronics |
| Dr. Öğr.Üyesi Simge Çınar | 1. Design and development of next generation suspension batteries 2. Fabrication of multifunctional nanomaterials |
| Dr. Öğr. Üyesi Bilge İmer | 1- Master/Doktora: Oxide thermoelectric thin film materials for energy  harvesting  2- Master/Doktora: Oxide supercapacitor thin film materials for solar cell  applications  3- Master/Doktora: Heat treatment of oxide thin film materials  4- Master/Doktora: Corrosion protective coatings for turbine blade  applications  5- Master/Doktora: Heat treatment of PALINEY alloys for defense applications |