


## 1L-15 INORGANIC POLYMERS LABORATORY

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<b>General Information</b>	Synthesis and characterization of conjugated materials, ionomers and polymers	
<b>Applications</b>	<ul style="list-style-type: none"> <li>○ Fuel Cell Membrane</li> <li>○ OLED &amp; Solar Cells</li> </ul>	
<b>Laboratory Photography</b>		
<b>Equipment</b>	<ul style="list-style-type: none"> <li>○ Vacuum Pump (Edwards)</li> <li>○ Rotary Evaporator (Heidolph)</li> <li>○ Vacuum Oven (Binder)</li> <li>○ Oven (Binder)</li> <li>○ Ultrasonic Bath (Kudos)</li> <li>○ Analytical Balance (Precisa)</li> <li>○ Electrical Conductivity Meter (Ivium)</li> <li>○ Spin Coating (Spin150)</li> <li>○ Orbital Shakers (Heidolph)</li> <li>○ Shakers (Type 16700 Mixer)</li> <li>○ UV Apparatus (Ocean Optics)</li> <li>○ CV Apparatus (Iviumstat)</li> <li>○ Magnetic Stirrer (Heidolph)</li> <li>○ UV Lamp (Hand-made)</li> </ul>	
<b>Projects</b>	<ul style="list-style-type: none"> <li>○ Development of Novel Conducting Polymer Composite Materials and Investigation of Optoelectronic Device Applications, NAF-R2-180625, Newton Advanced Fellowship (Uluslararası), Yürütücü: HACIVELİOĞLU Ferda, Danışman: Skabara Peter (University of Glasgow), Royal Society, 01/11/2018 (Devam Ediyor) (ULUSLARARASI), £74.000 GBP</li> </ul>	

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|  | <ul style="list-style-type: none"><li>○ 118Z711 (TÜBİTAK 1001), 15/03/2019-15/03/2021, Preparation of Sulfonic acid and Sulfonimid Bearing Polyphosphazenes and Investigation of Their Fuel Cell Performances, 579.590 TL</li><li>○ 113Z314 (COST), 01/10/2013-01/01/2016, Synthesis, characterization, investigation of surface and electrical conductivity properties of polythiophene, polypyrrole and polyaniline-grafted polyphosphazenes, 253.311 TL</li><li>○ 114Z454 (TÜBİTAK 1001), 15/10/2014-18/04/2017, Synthesis, Characterization and Investigation of Redox Properties of Phosphate Compounds Containing Stable Nitrogen-Oxide Radicals for Dye Sensitized Photovoltaic Cells, 253.662 TL</li><li>○ 109T826 (TÜBİTAK 1001), 1/12/2010-1/12/2012, Synthesis, Characterization and Fuel Cell Applications of Phosphate Based Dehumidified Polymer Electrolyte Membranes, 160.237 TL</li></ul> |
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