

## 2L-14 PHOTOELECTROCHEMISTRY RESEARCH LABORATORY

<b>Department</b>	Department of Chemistry	
<b>Laboratory Responsible</b>	Prof. Dr. Bünyemin ÇOŞUT	bc@gtu.edu.tr
<b>Research Team</b>	Instructor Ayşen ORHAN ERKOVAN	aerkovan@gtu.edu.tr
	Research Assistant Burcu TOPALOĞLU AKSOY	btopaloglu@gtu.edu.tr
	PhD Student Emrah ÖZCAN	emrah.ozcan@gtu.edu.tr
	PhD Student İsmail EROL	i.erol@gtu.edu.tr
<b>Contact Information</b>	Gebze Technical University, Department of Chemistry, Lab. 2L-14, 41400 Gebze/KOCAELİ	0262 605 30 75
<b>General Information</b>	<p>Physical Inorganic Chemistry, Photo/electro/chemistry, Spectroscopy, Fluorescence sensors, fluorescence probes and fluorescence bio-imaging, BODIPY based photosensitizers, Dendrimers, Metal Organic Framework systems, Artificial Photosynthesis, Renewable Energy, Hydrogen Evolution by Photoelectrochemical Water Splitting, Photon-Upconversion systems.</p>	
<b>Laboratory Photo</b>		
<b>Applications</b>	<ul style="list-style-type: none"> <li>○ Fluorescence Sensor Applications</li> <li>○ Dye Sensitized Solar Cell Measurements</li> <li>○ Fluorescence Bio-Imaging</li> <li>○ Nanofiber Synthesis</li> <li>○ Photocatalytic Applications</li> <li>○ Electrophoretic Deposition</li> </ul>	
<b>Equipment</b>	<ul style="list-style-type: none"> <li>○ Fluorescence Spectrophotometer (Varian Cary Eclipse)</li> <li>○ Fluorescence Spectrophotometer Fluorolog-3 (Horiba-Jobin Yvon)</li> <li>○ UV Spectrophotometer (Shimadzu UV-2101pc)</li> <li>○ Circular Dichroism (CD) Spectrophotometer (Jasco J-815)</li> <li>○ Solar Simulator (FYNX)</li> <li>○ MALDI-MS (Bruker microflex LT MALDI-TOF MS)</li> <li>○ Electrospinnig</li> </ul>	
<b>Projects</b>	<ul style="list-style-type: none"> <li>○ Tübitak, ARDEB 1001, (15.05.2016-15.05.2018), Synthesis and Characterization of Graphene Oxide Based Phosphazene Hybrid Materials and Measurements of Photo-electrochemical Cell Performance, 346.288,00 TL</li> </ul>	

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|  | <ul style="list-style-type: none"><li>○ Tübitak, ARDEB 3001, (15.04.2015-15.10.2016), The Investigation of Sensitive Colorimetric Sensors Determination of TNT and RDX Based on Dendrimeric Phosphazene Core and Investigation of Their Properties, 97.350,00 TL</li><li>○ GTU, BAP, (11.06.2015-11.12.2016), The Synthesis of Selective aluminum (III) Ion Fluorescence Sensors Based on Phosphazene Core and Investigation of Their Properties, 13.000,00 TL</li><li>○ MEVLANA, YÖK, (23.09.2017-31.05.2019), Graphene Reinforced Electrically Conductive Ink Development, 15.600,00 TL</li></ul> |
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