


## 2L-14 PHOTOELECTROCHEMICAL RESEARCH LABORATORY

<b>Department</b>	Department of Chemistry	
<b>Laboratory Responsible</b>	Assoc. Prof. Dr. Bünyemin ÇOŞUT	bc@gtu.edu.tr
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<b>General Information</b>	<p>Photochemistry,                      Photochemical and physicochemical behavior of chromophores,                      FRET based sensors,                      Photoelectrochemical cells,                      Artificial Photosynthesis and Light harvesting system,                      Graphene,                      BODIPY Dyes.</p>	
<b>Laboratory Image</b>		
<b>Applications</b>	<ul style="list-style-type: none"> <li>○ UV, Fluorescence, and Solar Simulator measurements</li> <li>○ Phosphazene, BODIPY, Graphene synthesis</li> <li>○ Mass, NMR, MALDI, FTIR, X-Ray analysis</li> </ul>	
<b>Equipment</b>	<ul style="list-style-type: none"> <li>○ Oven (BINDER)</li> <li>○ Analytical Balance (Precisa)</li> <li>○ Argon Gas Tube (MESSER)</li> <li>○ Water Distillation Apparatus (elektro-mag)</li> <li>○ Solar Simulator (FYNX)</li> <li>○ Ultrasonic Bath (Alex machine)</li> <li>○ Evaporator (Heidolph)</li> <li>○ Hot Plate and Magnetic Stirrer (Heidolph)</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 Photoelectrochemical Cell Performance, 346.288,00 TL</li> <li>○ GTU, BAP, (09.08.2016-09.02.2018), The Synthesis of BODIPY-Subphthalocyanine Dyad for Investigation of Energy Transfer Events, 9.696,00 TL</li> <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> </ul>	