

2L-01 METAL ORGANIC SYNTHESIS AND RESEARCH LABORATORY

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General Information	<p>In this laboratory the main objectives are covalent organic frameworks and their applications . These frameworks have low density and high surface area besides their wide range of applications such as antimicrobials, hydrogen storage and solar cells.</p> <p>Other objective is perylene, other dyes and their metal complexes for several photovoltaic applications.</p>	
Applications⁴	<ul style="list-style-type: none">○ Synthesis of covalent organic frameworks○ Design and synthesis of dyes such as perylenediimides, naphthalene diimides and fullerene derivatives○ TLC and UV Lamp control of compounds	
Laboratory photograph		
Equipment	<ul style="list-style-type: none">○ Laboratory Scales (OHAUS, Kern)○ Oven (Thermoscientific)○ UV Lamp (UVP)○ Ultrasonic Bath (Bandelin)○ Mantle heater (Thermoscientific)○ Rotary Evaporator (Heidolph, Buchi)○ Magnetic Stirrer (Corning, Heidolph, MTOPS, Yellow Line)	
Projects	<ul style="list-style-type: none">○ Tübitak, COST Project 115Z105 (01.12.2015-15.05.2018), New semiconducting porous materials for photovoltaic applications, 352.000 TL	

