


2L-16 INORGANIC SYNTHESIS LABORATORY

Department	Department of Chemistry	
Laboratory Responsible	Prof. Dr. Devrim ATILLA	datilla@gtu.edu.tr,
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Contact Information	262 605 30 77	Faculty of Science, Department of Chemistry
General Information	Designing and synthesis of biologically active inorganic compounds such as porphyrin, phthalocyanine and cyclophosphazene. Designing and synthesis of phthalocyanine, porphyrin, iridium and rutenium complexes for solar cells and sensor applications. Design and synthesis of indole and carbazole based new heterocyclic compounds. Design, synthesis, physical and chemical properties of cross-conjugated alkene molecules.	
Laboratory Photo		
Applications	<ul style="list-style-type: none">○ Synthesis and characterization complexes, dyes, photosensitizers and bioinorganic compounds	
Equipment	<ul style="list-style-type: none">○ Rotary Epeporator (Heidolph)○ Water Bath (JSR)○ Oven (Hereaus)○ Vacuum Oven (Vacucel)○ HPLC (Agielent)	
Projects	<ul style="list-style-type: none">○ TÜBİTAK 118Z736 “Synthesis and Photovoltaic Applications of New Phthalocyanine Derivatives as Hole Transfer Materials for Perovskite Based Solar Cells” (2019-1021), 690.000 TL○ TÜBİTAK 118Z693 “Novel Phthalocyanine Derivatives Substituted with Histone Deacetylase İnhibitor for Cancer Therapy with Chemo- and Photodynamic Therapy” (2019-1020), 45.000 TL	

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| | <ul style="list-style-type: none">○ TÜBİTAK-1002 115Z866 “Sythesis of Iridium Complexes and Investigation of Their Photophysical Properties For OLED Applications” (2016-2017), 30.000 TL○ TÜBİTAK-1002 120Z069 “Synthesis and Investigation of Anti-bacterial Activities of New Pyrrole Carbazole based 1,3,4-Oxadiazoles” (2020- continue) 44.687 TL |
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