


1L-09 POLYMER SYNTHESIS and APPLICATION LABORATORY

Department	Department of Chemistry	
Laboratory Responsible	Prof. Dr. Hayal BÜLBÜL SÖNMEZ	hayalsonmez@gtu.edu.tr
Research Team	Res. Asst. Ceyda KÖSE	ceydakose@gtu.edu.tr
	Merve KORANOZ (PhD Student)	mervekoranoz@gtu.edu.tr
	Gökhan AKBULUT (PhD Student)	akbulutg@gtu.edu.tr
	Şule AŞKIN (PhD Student)	saskin@gtu.edu.tr
	Emre KÖKEN (PhD Student)	emrekoken@gtu.edu.tr
	Pınar ÖZMEN (PhD Student)	pozmen@gtu.edu.tr
	Seda ARACI (PhD Student)	sedaaraci@gtu.edu.tr
	Simge UZUNOK (MSc. Student)	simgeuzunok@gmail.com
	Erdi YENİCE (MSc. Student)	erdiyenice@gtu.edu.tr
Contact Information	0262 605 30 88	Temel Bilimler Fakültesi Kimya Bölümü 1L-09
General Information	Polymer synthesis, characterization and applications are studied in Polymer Synthesis and Application Laboratory.	
Applications	<ul style="list-style-type: none">○ Polymeric sorbent synthesis and applications○ Water pollution○ Organo gel synthesis and applications○ Amphiphilic gel synthesis and applications○ Composite synthesis and applications	
Laboratory Photo		
Equipment	<ul style="list-style-type: none">○ Vacuum Oven (Memmert)○ Oven (Memmert)○ Evaporators (Heidoph)○ Magnetic Stirrer (Heidoph)○ Shakers (Heidoph, Innova)○ Optic Microscope (Nikon)	
Projects	<ul style="list-style-type: none">○ TUBITAK, ARDEB 1001, (2017-2019), The Synthesis and Characterization of Poly(dimethylsiloxane) Hybrid	

Polymers: Their Use as a Sorbent for The Removal of Organic Solvent and Oil From Environment, 335.682 TL.

- TUBITAK, ARDEB 1002, (2016-2017), Porous organogels: Synthesis, characterization and its application as sorbent for removal of organic solvents, fuels and crude oil from water, 30.000 TL.
- TUBITAK ARDEB 1002, (2014-2015), Preparation of Poly(propylene glycol) Organogels for Removal of Organic Solvents and Oil Spills from Environment, 30.000 TL.
- TUBITAK ARDEB 1002, (2012-2013), Synthesis and Applications of Poly(ethylene glycol) Gels, 24500 TL.
- TUBITAK ARDEB 1001 (2011-2013): Synthesis of Novel Crosslinked Polymer Based on Alklytriethoxysilane and Diol: The Investigation of Their Swelling Properties, 158.322 TL.
- TUBITAK ARDEB 1002 (2009-2010), Synthesis of Crosslinked Polyorthosilicates Based on Linear Aliphatic Diols and The Investigation of Their Swelling Properties, 24.450 TL
- TUBITAK ARDEB 1001, (2007-2009), The Use of Crosslinked Polyorthocarbonates and Polyorthosilicates as Organic Solvent Absorbent, 152.200 TL
- GTU, BAP (2017-2018), Design of Glycerol Ethoxylate Based Sorbents: Investigation Structural and Swelling Properties, 7500 TL
- GTU, BAP (2012-2013) Design of new sorbents for organic solvent and oil spills, 11.030 TL
- GTU, BAP (2011-2013), Synthesis of Crosslinked Polymers Based on Bistriethoxysilane and Diols as Organic Solvent Absorbent, 4.950 TL
- GTU, BAP (2009-2011), Synthesis of Crosslinked Polyorthocarbonates Based on Linear Aliphatic Diols and Their Swelling Properties, 9.590 TL
- GTU, BAP (2007-2009), Synthesis and Characterization of Thermally Stable Spiropolymers, 12.570 TL