

BENGÜ GETİREN

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EDUCATION

Ankara University

Bachelor's Degree in Chemical Engineering

- Certificate of Achievement (3rd in Department of Chemical Engineering) and Honor Student (3.33/4.00)

Ankara, Turkey

September 2011 – June 2016

Ankara University

Master's Degree in Chemical Engineering (3.90/4.00)

Ankara, Turkey

January 2017 – July 2020

Ankara University

Ph.D. Degree in Chemical Engineering (3.88/4.00)

Ankara, Turkey

February 2021 – (ongoing)

EXPERIENCE

Izmir Institute of Technology

Research (Assistant)

İzmir

March 2022 – (ongoing)

Ankara University

Laboratory worker (in Supercritical Fluid and Nanotechnology Laboratory)

Ankara

June 2015 – March 2022

- Responsible for working in a project which is supported by TÜBİTAK (The Scientific and Technological Research Council of Turkey) (Project no 120M752, 'Investigation of energy storage performances of heteroatom doped graphene and graphene quantum dot based nanocomposites')
- Responsible for working in a project which is supported by TÜBİTAK (The Scientific and Technological Research Council of Turkey) (Project no 117M232, 'Synthesis, characterization and investigation the photothermal chemotherapy activity of NIR sensitive graphene quantum dots (GQDs)')

Kayalar Kimya

Intern

Istanbul

August 2015 – September 2015

Baştaş Çimento

Intern

Ankara, Turkey

July 2014 – August 2014

SKILLS

Software and Applications

- MATLAB
- AUTOCAD
- CHEMCAD
- Aspen HYSYS

Applied Devices

- The Reference 3000™ potentiostat-galvanostat/Gamry instruments
- FT-IR (Fourier transform infrared spectroscopy)/8400 S Shimadzu
- HPLC (High-performance liquid chromatography)/Shimadzu
- UV-Vis (Ultraviolet-Visible) Spectroscopy/Shimadzu UV 1601 and Agilent Technologies, Cary 60
- Fluorescence spectroscopy/Cary Eclipse
- SFE (Supercritical fluid extraction) system/RESS, ISCO-Sitec modified SFX-220

FOREIGN LANGUAGE SKILLS

English (Advanced)

German (Elementary)

CERTIFICATES OF ATTENDANCE AND CERTIFICATES

- 3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021) in Ankara
 - The Online English School - Advanced 2 level which is mentored by Boğaziçi University Lifelong Learning Center (2020)
 - The Online English School - Advanced 1 level which is mentored by Boğaziçi University Lifelong Learning Center (2020)
 - 3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem) (2020)
 - 4th International Symposium on Composite Materials (KOMPEGE 2018) at Ege University (2018)
 - Laboratory Safety Certificate of Attendance at UCTEA Chamber of Chemical Engineers (2016)
 - Occupational Health and Safety Certificate of Attendance at Başkent İş Sağlığı Güvenliği ve Çevre Ölçüm Merkezi (Başkent Occupational Health, Safety and Environmental Measurement Center) (2014)
 - UKMÖK 2 ve AKMBB 6 Certificate of Attendance at Ankara University (2013)
 - Industry and Career Day Certificate of Attendance at Ankara University (2012)
 - English Preparatory Certificate at Ankara University, School of Foreign Languages with a level of B2 (81/100) (2012)
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ARTICLES PUBLISHED IN INTERNATIONAL REFEREED (SCI, SCIE) AS FOLLOWED

- **Fabrication of polypyrrole enveloped reduced graphene oxide/iron oxide and determination of its photothermal properties (2022)**, *Materials Research Bulletin (Volume 150, 111792)*, <https://doi.org/10.1016/j.materresbull.2022.111792>
 - **An anticancer drug loading and release study to ternary GO-Fe₃O₄-PPy and Fe₃O₄@PPy-NGQDs nanocomposites for photothermal chemotherapy (2022)**, *Colloids and Surfaces A: Physicochemical and Engineering Aspects (Volume 663, Part1, 127791)*, <https://doi.org/10.1016/j.colsurfa.2021.127791>
 - **Supercritical carbon dioxide extraction of *Usnea longissima* (L.) Ach.: Optimization by Box-Behnken design (BBD) (2021)**, *The Turkish Journal of Chemistry*, <https://journals.tubitak.gov.tr/chem/abstract.htm?id=29663>
 - **NIR-responsive Fe₃O₄@PPy nanocomposite for efficient potential use in photothermal therapy (2020)**, *Journal of Applied Polymer Science (Volume 137, Issue 44, 49343)*, <https://doi.org/10.1002/app.49343>
 - **Novel approach in synthesizing ternary GO-Fe₃O₄-PPy nanocomposites for photothermal performance (2020)**, *Journal of Applied Polymer Science (Volume 137, Issue 26, 48837)*, <https://doi.org/10.1002/app.48837>
 - **Green synthesis of reduced graphene oxide-AgAu bimetallic nanocomposite: Catalytic performance (2020)**, *Chemical Engineering Communications (Volume 207, Issue 4, pages 559-573)*, <https://doi.org/10.1080/00986445.2019.1613227>
 - **Synthesis and characterization of reduced graphene oxide-iron oxide-polyaniline ternary nanocomposite and determination of its photothermal properties (2020)**, *Materials Research Bulletin (Volume 124, 110763)*, <https://doi.org/10.1016/j.materresbull.2019.110763>
 - **One-step hydrothermal synthesis of nitrogen doped reduced graphene oxide-silver nanocomposites: Catalytic performance (2020)**, *Applied Organometallic Chemistry (Volume 34, Issue 5, e5621)*, <https://doi.org/10.1002/aoc.5621>
 - **Photoluminescence, photothermal and magnetic properties of nitrogen doped graphene quantum dots based ternary nanocomposite (2020)**, *Colloids & Surfaces A (Volume 605, 125370)*, <https://doi.org/10.1016/j.colsurfa.2020.125370>
 - **Simultaneous biosynthesis of reduced graphene oxide-Ag-Cu₂O nanostructures by lichen extract for catalytic reduction of textile dyes (2020)**, *Korean Journal of Chemical Engineering (Volume 37, Issue 12, pages 2216-2224)*, <https://doi.org/10.1007/s11814-020-0640-0>
 - **Synthesis of GO-Fe₃O₄-PANI nanocomposite with excellent NIR absorption property (2019)**, *Colloids and Surfaces A: Physicochemical and Engineering Aspects (Volume 578, 123623)*, <https://doi.org/10.1016/j.colsurfa.2019.123623>
 - **Catalytic performance of Ag, Au and Ag-Au nanoparticles synthesized by lichen extract (2018)**, *Green Processing and Synthesis (Volume 7, Issue 5, pages 433-440)*, <https://doi.org/10.1515/gps-2017-0074>
 - **NIR duyarlı NGKN-Fe₃O₄-PPy nanokompozitinin sentezi ve fototermal performansının incelenmesi (2021)**, *under review for publication in Journal of The Faculty of Engineering and Architecture of Gazi University*
-

PAPERS PRESENTED IN INTERNATIONAL SCIENTIFIC MEETINGS AS FOLLOWED

- Altınışik Hasan, **GETİREN Bengü**, ÇIPLAK Zafer, Soysal Furkan, Yıldız Nuray. 2021. **Synthesis of MnO₂/PANI Composites for Electrochemical Energy Storage**. 3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), December 15-17, 2021, Ankara (Oral Presentation).
- **GETİREN Bengü**, ÇIPLAK Zafer, GÖKALP Ceren, YILDIZ Atila, Soysal Furkan, YILDIZ Nuray, 2020. **Green Synthesis of Reduced Graphene Oxide-Cu₂O-Au Ternary Nanocomposite for Catalytic Reduction of 4-Nitrophenol**. 3rd INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem), Abstract Book, pg.387, 19-20 March 2020, Ankara (Oral Presentation)
- DİNÇER ATİLA Ceren, **GETİREN Bengü**, GÖKALP Ceren, YILDIZ Nuray, 2020. **Anticancer drug loading and release studies on a magnetic nanocomposite containing graphene oxide**. 3rd INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem), Abstract Book, pg.349, 19-20 March 2020, Ankara (Oral Presentation)
- ÇIPLAK Zafer, GÖKALP Ceren, **GETİREN Bengü**, YILDIZ Nuray, 2020. **Synthesis and Characterization of NIR Laser Responsive Polymeric Nanocomposites**. 3rd INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem), Abstract Book, pg.365, 19-20 March 2020, Ankara (Oral Presentation)
- SOYSAL Furkan, ÇIPLAK Zafer, **GETİREN Bengü**, GÖKALP Ceren, KURUÇAM Gülşah, AKIN Seray, YILDIZ Nuray, 2020. **Graphene oxide-iron (II, III) oxide-polyaniline ternary nanocomposite for supercapacitor applications**. 3rd INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem), Abstract Book, pg.386, 19-20 March 2020, Ankara (Oral Presentation)
- **GETİREN Bengü**, ÇIPLAK Zafer, GÖKALP Ceren, YILDIZ Atila, YILDIZ Nuray, 2018. **Green Synthesis and Catalytic Activity of Graphene-Cu-Ag Nanocomposite**. IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM (KOMPEGE), Abstract Book, pg.37, 06-08 September 2018, İzmir (Oral Presentation)
- **GETİREN Bengü**, ÇIPLAK Zafer, GÖKALP Ceren, YILDIZ Nuray, 2018. **Synthesis and Characterization of GO-Fe₃O₄-PPy Photothermal Performance**. IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM (KOMPEGE), Abstract Book, pg.168, 06-08 September 2018, İzmir (Poster Presentation)
- GÖKALP Ceren, ÇIPLAK Zafer, **GETİREN Bengü**, YILDIZ Atila, YILDIZ Nuray, 2018. **Catalytic Activity of Reduced Graphene Oxide Based Bimetallic Nanocomposites**. IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM (KOMPEGE), Abstract Book, pg.11, 06-08 September 2018, İzmir (Oral Presentation)
- GÖKALP Ceren, ÇIPLAK Zafer, **GETİREN Bengü**, YILDIZ Nuray, 2018. **Synthesis and Characterization of Graphene Quantum Dots**. IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM (KOMPEGE), Abstract Book, pg.169, 06-08 September 2018, İzmir (Poster Presentation)
- ÇIPLAK Zafer, ATİLA DİNÇER Ceren, GÖKALP Ceren, **GETİREN Bengü**, YILDIZ Nuray, 2018. **Graphene Oxide -Fe₃O₄- Polypyrrole Ternary Nanocomposite for Usnic Acid Loading and Release**. IV. INTERNATIONAL EGE COMPOSITE MATERIALS SYMPOSIUM (KOMPEGE), Abstract Book, pg.123, 06-08 September 2018, İzmir (Poster Presentation)
- ÇIPLAK Zafer, GÖKALP Ceren, **GETİREN Bengü**, YILDIZ Nuray, TÜRKÖZ Seray, ÇÖÇÜ Gülşah, 2018. **Catalytic Activity of Reduced Graphene Oxide-Ag-Fe₃O₄ Nanocomposite**. INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem), Abstract Book, pg.1009, 26-27 April 2018, Ankara (Poster Presentation)
- ATİLA DİNÇER Ceren, GÖKALP Ceren, **GETİREN Bengü**, YILDIZ Nuray, 2018. **Supercritical Carbon Dioxide Extraction (SCE) of Usnic Acid from Usnea longissima**. 9th EASTERN MEDITERRANEAN CHEMICAL ENGINEERING CONFERENCE (EMCC 9), 31 August- 1 September 2018, Ankara (Poster Presentation)
- **GETİREN Bengü**, GÖKALP Ceren, YILDIZ Atila, ÇIPLAK Zafer, ATİLA DİNÇER Ceren, YILDIZ Nuray, 2016. **Investigation of catalytic performance of AuNPs synthesized by lichen extract**. INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES, Abstract Book, pg.59, 01-05, September 2016, Macedonia (Poster Presentation)
- GÖKALP Ceren, **GETİREN Bengü**, ÇIPLAK Zafer, ATİLA DİNÇER Ceren, YILDIZ Nuray, 2016. **Au nanotaniciklerin sentezi ve katalitik etkinliklerinin incelenmesi**. IX. ANKARA KİMYA MÜHENDİSLİĞİ BÖLÜMLERİ BİRLİKTELİĞİ (AKMBB), 16 May 2016, Ankara (Poster Presentation)