**Dr. CEREN ORAK**

**CONTACT INFORMATION:**

**E-mail:** cerenorak@iyte.edu.tr // [crn.orak@gmail.com](mailto:crn.orak@gmail.com)

**EDUCATION:**

**2021-… Post Doc.,** İzmir Institute of Technology, the Graduate School, Department of Chemical Engineering, (Izmir, Turkey),

*Project:* Managing boron in geothermal fluids for sustainable development of high temperature geothermal energy systems in Gediz Graben, Turkey

*Principal Investigator:* Assoc. Prof. Dr. Aslı YÜKSEL ÖZŞEN (in Turkey) and Assoc. Prof. Dr. Majid Sedighi (in United Kingdom)

**2017-2021 Ph.D.,** İzmir Institute of Technology, the Graduate School, Department of Chemical Engineering, (Izmir, Turkey),

*PhD. Thesis:* The Valorization of Various Wastewater or Hydrogen Production by Photocatalytic Oxidation

*Advisor:* Assoc. Prof. Dr. Aslı YÜKSEL ÖZŞEN

**2014-2017, Master,** Ege University, Graduate School of Natural and Applied Sciences, Department of Chemical Engineering, (Izmir, Turkey).

*Master Thesis:* Treatment of The Micropollutants over Monolith Structured Perovskite Catalysts by Innovative Methods

*Advisor:* Assoc. Prof. Dr. Gülin ERSÖZ

**2017-(3 months),** **Erasmus Internship Program,** Università degli Studi di Salerno (Salerno, Italy)

*Project:* Photocatalytic Removal of Food Azo-dyes with LaFeO3 Supported on Cordierite Monoliths

*Advisor:* Prof. Dr. Diana Sannino

**2012-2013,** **Erasmus Student Exchange Program,** Università degli Studi di Salerno (Salerno, Italy)

*Bachelor Thesis:* Photocatalytic Activity of Functionalized Ceramic Tiles

*Advisor:* Prof. Dr. Diana Sannino

**2008-2013, Bachelor,** Ege University, Faculty of Engineering, Chemical Engineering Department, (Izmir, Turkey)

**INTERNSHIPS:**

* Università degli Studi di Salerno (Salerno, Italy), Erasmus Internship Program, Intern Engineer, June-September 2014
* Petkim PetroKimya Holding Co., VCM Factory, Aliağa/Izmir, Intern in Production Department, August-September 2012
* Dyo Paint Factories Industry and Trade Co., Çiğli/Izmir, Intern in Production Department, August- September 2010

**SCHOLARSHIPS:**

* TÜBİTAK, Project Name - Number: Managing boron in geothermal fluids for sustainable development of high temperature geothermal energy systems in Gediz Graben, Turkey – 119N310, Project Scholarship, August 2021 - …
* TÜBİTAK, 2211/C National PhD Scholarship Program in the Priority Fields in Science and Technology, Field: Hydrogen and Fuel Cells, June 2019 - July 2021.
* TÜBİTAK, Project Name - Number: The valorization of wastewater of a factory for hydrogen production by photocatalytic oxidation in the presence of perovskite catalyst - 217M272, Project Scholarship, May 2018 – May 2020
* YÖK, Hydrogen and Fuel Cells, PhD Scholarship Program, February 2017 - February 2021.
* TÜBİTAK, Project Name - Number: Treatment of personal care products based micropollutants over monolith structured perovskite catalysts by innovative methods - 114M080, Project Scholarship, January 2015 - January 2016.

**LANGUAGES:**

English: Advanced

German and Italian: Intermediate

**PROJECTS:**

* Managing boron in geothermal fluids for sustainable development of high temperature geothermal energy systems in Gediz Graben, Turkey, TÜBİTAK Project Number: 119N310, (August 2021-...)
* The valorization of wastewater of a factory for hydrogen production by photocatalytic oxidation in the presence of perovskite catalyst, TUBITAK Project Number: 217M272, Turkey, (May 2018 – May 2020).
* Selective Catalytic Hydrothermal Electrolysis of Cellulose into Sorbitol by a bifunctional catalyst, TUBITAK Project Number: 217M931, TURKEY, (October 2018 - June 2019).
* Hydrogen Production from Sucrose Solution by Photocatalytic Oxidation Method, Izmir Institute of Technology Scientific Research Project, Project Number: 2017IYTE42, Turkey, (January 2018 - December 2018).
* Treatment of personal care products based micropollutants over monolith structured perovskite catalysts by innovative methods, Ege University EBILTEM-TTO Scientific Research Project, Project Number: 15 BIL 015, (June 2015 – January 2017).
* Treatment of personal care products based micropollutants over monolith structured perovskite catalysts by innovative methods, TUBITAK Project Number: 114M080, Turkey, (January 2015 - January 2016).
* Photocatalytic Removal of Food Azo-dyes with LaFeO3 Supported on Cordierite Monoliths, Università degli Studi di Salerno, Italy, (June 2014 – September 2014).
* Photocatalytic Activity of Functionalized Ceramic Tiles, Ceren Orak, Università degli Studi di Salerno, Italy, September 2012 – July 2013.

**INTERNATIONAL CONFERENCE PRESENTATION:**

Yuksel A., **Orak C.,** ‘Hydrogen Production from Sugar Beet Wastewater in the Presence of Perovskite Type Catalysts by Photocatalytic Oxidation’, 257th American Chemical Society (ACS) National Meeting, March 31-April 04, 2019, Manuscript No: 3064023, Orlando, Florida, USA.

**NATIONAL CONFERENCE PRESENTATION:**

**Orak C.,** Atalay S., Ersöz G., Removal of Methylparaben by Fenton-Like Oxidation in the presence of LaFeO3, 12th National Chemical Engineers Congress August 2016, "Oral Presentation".

**ARTICLES:**

**Orak C.,** Yüksel Özşen A., 2021. Graphene‐supported LaFeO3 for photocatalytic hydrogen energy production. 1-17.

**Orak C.,** Yüksel Özşen A., 2020. Electrolytic oxidation of 1,8- diazabicyclo[5.4.0]undec-7-ene in hot-compressed water on a titanium electrode, Industrial & Engineering Chemistry Research, 59 (43), 19153-19161**.**

**Orak C.,** Atalay S., Ersöz G., 2016. Degradation of ethylparaben using photo-Fenton-like oxidation over BiFeO3, Anadolu University Journal of Science and Technology A - Applied Sciences and Engineering, 17 (5), 915-925.

**Orak C.,** Atalay S., Ersöz G., 2017. Photocatalytic and photo-Fenton-like degradation of methylparaben on monolith-supported perovskite-type catalysts, Separation Science and Technology, 52 (7), 1310-1320.

**REFERENCES:**

***Dr. Aslı YÜKSEL ÖZŞEN***

Assoc. Prof. Dr. in Izmir Institute of Technology, Chemical Engineering Department Geothermal Energy Research and Application Center (JEOMER) Center Director E-mail: asliyuksel@iyte.edu.tr  
Phone: +905336318947

***Dr. Gülin ERSÖZ***

Assoc. Prof. Dr in Ege University, Chemical Engineering Department E-mail: gulin.ersoz@ege.edu.tr  
Phone: +905334152899