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Education:

2015-Present

Doctor of Philosophy (PhD):

Bilkent University / Ankara – TURKEY Department of Chemistry

Supervisor: Dr. Emrah ÖZENSOY

2013-2015

Master of Science:

Bilkent University / Ankara – TURKEY Department of Chemistry

Supervisor: Dr. Emrah ÖZENSOY

2007-2013

Bachelor of Science:

Bilkent University / Ankara – TURKEY Department of Chemistry

Research Experience:

2012-Present

➤ *Environmental Chemistry; Novel Diesel Oxidation Catalysts (DOC).*

Bilkent University Chemistry Department, Supervisor: Prof. Emrah Özensoy.

2012-2015

➤ *New generation PGM-free Perovskite Materials for LNT applications.*

General Motors Global R&D Chemical Sciences & Bilkent University

2016-Present

➤ *In-Situ and Ex-Situ XANES analysis and data analysis by using different synchrotron radiation facilities (2016- DESY/Hamburg and 2017 Soleil/Paris).*

Publications:

ChemCatChem (2017) Published

Sulfur-Tolerant BaO/ZrO₂/TiO₂/Al₂O₃ Quaternary Mixed Oxides for DeNOX Catalysis
Say, Z.; Mihai, O.; Tohumeken, M.; **Ercan, K.E.**; Olsson, L.; Ozensoy, E.
Catalysis Science & Technology, 2017 (7) 133-144

Topics in Catalysis, (2016) published

2. Sulfur Poisoning and Regeneration Behavior of Perovskite-Based NO Oxidation Catalysts
Kurt, M.; Say, Z.; Ercan, K.E.; Vovk, E.I.; Kim, C.H.; Ozensoy, E.
<http://link.springer.com/article/10.1007/s11244-016-0721-9>

In Preparation (2018)

3. Precious Metal-free LaCo_xMn_{1-x}O₃ Hybrid Perovskite Catalysts with Fine-Tunable Redox Properties.
Ercan, K. E., Say, Z., Kurt, M., Karatok, M., Pantaleo, G., Liotta, L. F., Ozensoy, E. 2018 (in preparation).

Conference Presentations:

- *ECOSS 2014 (European Conference of Surface Science) - Poster Presentation*
- *EUROPACAT 2015 (Kazan-Russia) - Poster Presentation*
- *NCC6 2016 (National Catalysis Congress) - Turkey/Bursa - Oral Presentation*
- *13th NanoTr 2017 Antalya/Turkey-Oral Presentation*
- *29th National Chemistry Congress 2017 Ankara/Turkey-Oral Presentation*
- *4th Anatolian School of Catalysis 2017 Ankara/Turkey-Poster Presentation*

Grants & Awards:

- *TUBITAK Graduate Fellowship (2015-2018) The Scientific and Technological Research Council of Turkey.*
- *TUBITAK Graduate Fellowship (2014-2015) The Scientific and Technological Research Council of Turkey.*
- *Bilkent University Full Undergraduate Fellowship (2007-2013).*
- *Turkey Prime Ministry Undergraduate Fellowship (2007-2012).*
- *Turkey Prime Ministry Graduate Fellowship (2015-Present).*
- *4th Anatolian School of Catalysis 2017 Ankara/Turkey Best Poster Award-Second Place*

Teaching Experience:

- *Material Science Course Grader (2013-2014)*
- *General Chemistry I & II Laboratory Teaching Assistant (2014-2017)*
- *Analytical Chemistry II Laboratory Teaching Assistant (2015-2016)*
- *Analytical Chemistry II Laboratory Teaching Assistant (2017-2018)*

Work Experience:

- *Hands-on experineced on Swagelok and VCR connections.*
- *Hands-on experineced on Rotary pump maintenance*
- *Hands-on experineced on PID controller maintenance connections and programming*
- *Hands-on experineced on flow reactor configuration and setup*
- *2007 Summer Project Trainee at Henkel*

Languages:

- *Turkish (Native)*
- *English (Fluent)*

Programming Languages:

- *Matlab (Basic)*
- *Jawa (Basic)*

Libraries and Tools:

- *Solidworks 3D-design*
- *MS Office (Excel, Word, PowerPoint)*

- *Origin*
- *XRD, RAMAN, FT-IR, Mass Spectrometer, BET Surface Area, Gas Chromatography, AAS, Flame Photometry, UV-Visible Spectrometry, DSC-TGA Perkinelmer*
- *XANES (X-Ray Absorption Near Edge Spectroscopy) data analysis and experimental design.*

References:

Available upon request