

GÖKHAN ÇELİK

ASST. PROF.

Email : gcelik@metu.edu.tr

Office Phone : [+90 312 210 2619](tel:+903122102619)

Fax Phone : [+90 312 210 2600](tel:+903122102600)

Address : Kimya Mühendisliği, D-Blok, D-104

International Researcher IDs

ScholarID: 03fWFMkAAAAJ

ORCID: 0000-0001-8070-5219

Publons / Web Of Science ResearcherID: AAA-2392-2020

ScopusID: 57191109215

Yoksis Researcher ID: 164196



Learning Knowledge

Associate Degree 2020 - 2022	Anadolu University, Department Of Hotel, Restaurant And Catering Services, Turkey
Post Doctorate 2018 - 2019	Argonne National Laboratory, Chemical Sciences and Engineering Division, Catalysis Science Program, United States Of America
Doctorate 2013 - 2018	The Ohio State University, Faculty of Engineering, Chemical and Biomolecular Engineering, United States Of America
Postgraduate 2010 - 2012	Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey
Undergraduate 2005 - 2010	Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey

Academic Titles / Tasks

Assistant Professor 2020 - Continues	Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering
Research Assistant 2010 - 2012	Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering

Scholarships

2232 - Uluslararası Lider Araştırmacılar Programı, TÜBİTAK, 2020 - Continues

Jury Memberships

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, July, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Chemical upcycling of polyolefins into liquid refinery feedstock from the circularity and chemical engineering aspects**
Aydogdu A. C., Erkmen B., Suerkan A., Ezdesir A., Guliyev B., ÇELİK G.
Journal of Environmental Chemical Engineering, vol.12, no.5, 2024 (SCI-Expanded)
- 2. Insights into Reaction Mechanisms in Liquid Metals from Density Functional Theory: CH₄ Pyrolysis in BiNiX (X = Cu, Al) Molten Metals as a Case Study**
Erbasan A., TOFFOLI H., Toffoli D., GÖKALP İ., KARDAŞ G., ÇELİK G.
ACS Applied Energy Materials, vol.7, no.8, pp.3220-3233, 2024 (SCI-Expanded)
- 3. Effect of Pt nanoparticle size on resistance to chloride-induced inhibition for hydrodechlorination of trichloroethylene in water**
KARAHAN S., ÇELİK G.
Journal of Environmental Chemical Engineering, vol.12, no.2, 2024 (SCI-Expanded)
- 4. Nonoxidative dehydrogenation of propane using boron-incorporated silica-supported Pt Sites synthesized by atomic layer deposition**
ÇELİK G.
Turkish Journal of Chemistry, vol.48, no.1, pp.166-175, 2024 (SCI-Expanded)
- 5. Ternary Polyaniline@Bi₂O₃-BiOCl Nanocomposites as Innovative Highly Active Photocatalysts for the Removal of the Dye under Solar Light Irradiation**
BOUZIANI A., Yahya M., Bianchi C. L., Falletta E., ÇELİK G.
Nanomaterials, vol.13, no.4, 2023 (SCI-Expanded)
- 6. Can Pyrolysis Oil Be Used as a Feedstock to Close the Gap in the Circular Economy of Polyolefins?**
Erkmen B., Ozdogan A., Ezdesir A., Çelik G.
Polymers, vol.15, no.4, 2023 (SCI-Expanded)
- 7. Development of polyaniline coated titania-hematite composite with enhanced photocatalytic activity under sun-like irradiation**
BOUZIANI A., Yahya M., Naciri Y., Hsini A., Khan M. A., Sillanpää M., ÇELİK G.
Surfaces and Interfaces, vol.34, 2022 (SCI-Expanded)
- 8. Grafted nickel-promoter catalysts for dry reforming of methane identified through high-throughput experimentation**
Ferrandon M. S., Byron C., Celik G., Zhang Y., Ni C., Sloppy J., McCormick R. A., Booksh K., Teplyakov A., Delferro M.
APPLIED CATALYSIS A-GENERAL, vol.629, 2022 (SCI-Expanded)
- 9. Synthetic Lubricants Derived from Plastic Waste and their Tribological Performance**
Hackler R. A., Vyavhare K., Kennedy R. M., ÇELİK G., Kanbur U., Griffin P. J., Sadow A. D., Zang G., Elgowainy A., Sun P., et al.
ChemSusChem, vol.14, no.19, pp.4181-4189, 2021 (SCI-Expanded)
- 10. On the dual role of the reactant during aqueous phase hydrodechlorination of trichloroethylene (HDC of TCE) using Pd supported on swellable organically modified silica (SOMS)**
Ailawar S., Hunoor A., Rudzinski B., Celik G., Burel L., Millet J., Miller J. T., Edmiston P. L., Ozkan U. S.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.291, 2021 (SCI-Expanded)

11. **Effect of High Temperature on Swellable Organically Modified Silica (SOMS) and Its Application for Preferential CO Oxidation in H-2 Rich Environment**
Basu D., Ailawar S., Celik G., Edmiston P., Ozkan U. S.
CHEMCATCHEM, vol.12, no.14, pp.3753-3768, 2020 (SCI-Expanded)
12. **Activation of Low-Valent, Multiply M-M Bonded Group VI Dimers toward Catalytic Olefin Metathesis via Surface Organometallic Chemistry**
Chapovetsky A., Langeslay R. R., Celik G., Perras F. A., Pruski M., Ferrandon M. S., Wegener E. C., Kim H., Dogan F., Wen J., et al.
ORGANOMETALLICS, vol.39, no.7, pp.1035-1045, 2020 (SCI-Expanded)
13. **Role of Boron in Enhancing the Catalytic Performance of Supported Platinum Catalysts for the Nonoxidative Dehydrogenation of n-Butane**
Byron C., Bai S., Celik G., Ferrandon M. S., Liu C., Ni C., Mehdad A., Delferro M., Lobo R. F., Teplyakov A. V.
ACS Catalysis, vol.10, no.2, pp.1500-1510, 2020 (SCI-Expanded)
14. **Mechanistic Aspects of a Surface Organovanadium(III) Catalyst for Hydrocarbon Hydrogenation and Dehydrogenation**
Kaphan D. M., Ferrandon M. S., Langeslay R. R., Celik G., Wegener E. C., Liu C., Niklas J., Poluektov O. G., Delferro M.
ACS Catalysis, vol.9, no.12, pp.11055-11066, 2019 (SCI-Expanded)
15. **Upcycling Single-Use Polyethylene into High-Quality Liquid Products**
Celik G., Kennedy R. M., Hackler R. A., Ferrandon M., Tennakoon A., Patnaik S., Lapointe A. M., Ammal S. C., Heyden A., Perras F. A., et al.
ACS Central Science, vol.5, no.11, pp.1795-1803, 2019 (SCI-Expanded)
16. **Electrophilic Organoiridium(III) Pincer Complexes on Sulfated Zirconia for Hydrocarbon Activation and Functionalization**
Syed Z. H., Kaphan D. M., Perras F. A., Pruski M., Ferrandon M. S., Wegener E. C., Celik G., Wen J., Liu C., Dogan F., et al.
Journal of the American Chemical Society, vol.141, no.15, pp.6325-6337, 2019 (SCI-Expanded)
17. **Aqueous-Phase Hydrodechlorination of Trichloroethylene over Pd-Based Swellable Organically Modified Silica: Catalyst Deactivation Due to Sulfur Species**
Celik G., Ailawar S. A., Gunduz S., Miller J. T., Edmiston P. L., Ozkan U. S.
Industrial and Engineering Chemistry Research, vol.58, no.10, pp.4054-4064, 2019 (SCI-Expanded)
18. **Formation of carbonaceous deposits on Pd-based hydrodechlorination catalysts: Vibrational spectroscopy investigations over Pd/Al₂O₃ and Pd/SOMS**
Celik G., Ailawar S. A., Gunduz S., Edmiston P. L., Ozkan U. S.
Catalysis Today, vol.323, pp.129-140, 2019 (SCI-Expanded)
19. **Effect of alumina incorporation on the sulfur tolerance of the dual-catalyst aftertreatment system for reduction of nitrogen oxides under lean conditions**
Sinha Majumdar S., Alexander A., Gawade P., Celik G., Ozkan U. S.
Catalysis Today, vol.320, pp.204-213, 2019 (SCI-Expanded)
20. **Aqueous-phase hydrodechlorination of trichloroethylene over Pd-based swellable organically-modified silica (SOMS): Catalyst deactivation due to chloride anions**
Celik G., Ailawar S. A., Gunduz S., Miller J. T., Edmiston P. L., Ozkan U. S.
Applied Catalysis B: Environmental, vol.239, pp.654-664, 2018 (SCI-Expanded)
21. **Atomically Precise Strategy to a PtZn Alloy Nanocluster Catalyst for the Deep Dehydrogenation of n-Butane to 1,3-Butadiene**
Camacho-Bunquin J., Ferrandon M. S., Sohn H., Kropf A. J., Yang C., Wen J., Hackler R. A., Liu C., Celik G., Marshall C. L., et al.
ACS Catalysis, vol.8, no.11, pp.10058-10063, 2018 (SCI-Expanded)
22. **Swellable Organically Modified Silica (SOMS) as a Catalyst Scaffold for Catalytic Treatment of Water Contaminated with Trichloroethylene**
Celik G., Ailawar S. A., Sohn H., Tang Y., Tao F. F., Miller J. T., Edmiston P. L., Ozkan U. S.
ACS Catalysis, vol.8, no.8, pp.6796-6809, 2018 (SCI-Expanded)

23. **Enhancement in Oxygen Reduction Reaction Activity of Nitrogen-Doped Carbon Nanostructures in Acidic Media through Chloride-Ion Exposure**
Jain D., Mamtani K., Gustin V., Gunduz S., Celik G., Waluyo I., Hunt A., Co A. C., Ozkan U. S.
ChemElectroChem, vol.5, no.14, pp.1966-1975, 2018 (SCI-Expanded)
24. **Hydrodechlorination of trichloroethylene over Pd supported on swellable organically-modified silica (SOMS)**
Sohn H., Celik G., Gunduz S., Dean S. L., Painting E., Edmiston P. L., Ozkan U. S.
Applied Catalysis B: Environmental, vol.203, pp.641-653, 2017 (SCI-Expanded)
25. **In-situ incorporation of binder during sol-gel preparation of Pd-based sulfated zirconia for reduction of nitrogen oxides under lean-burn conditions: Effect on activity and wash-coating characteristics**
Sinha Majumdar S., Celik G., Alexander A., Gawade P., Ozkan U. S.
Applied Catalysis B: Environmental, vol.202, pp.134-146, 2017 (SCI-Expanded)
26. **Effect of high-temperature on the swellable organically-modified silica (SOMS) and its application to gas-phase hydrodechlorination of trichloroethylene**
Sohn H., Celik G., Gunduz S., Majumdar S. S., Dean S. L., Edmiston P. L., Ozkan U. S.
Applied Catalysis B: Environmental, vol.209, pp.80-90, 2017 (SCI-Expanded)
27. **Oxygen Mobility in Pre-Reduced Nano- and Macro-Ceria with Co Loading: An AP-XPS, In-Situ DRIFTS and TPR Study**
Sohn H., Celik G., Gunduz S., Dogu D., Zhang S., Shan J., Tao F. F., Ozkan U. S.
Catalysis Letters, vol.147, no.11, pp.2863-2876, 2017 (SCI-Expanded)
28. **Probing the Oxygen Reduction Reaction Active Sites over Nitrogen-Doped Carbon Nanostructures (CNx) in Acidic Media Using Phosphate Anion**
Mamtani K., Jain D., Zemlyanov D., Celik G., Luthman J., Renkes G., Co A. C., Ozkan U. S.
ACS Catalysis, vol.6, no.10, pp.7249-7259, 2016 (SCI-Expanded)
29. **Investigation of the effect of alumina binder addition to Pd/SO₄²⁻ – ZrO₂ Catalysts during sol–gel synthesis**
Sinha Majumdar S., Celik G., Ozkan U.
Industrial and Engineering Chemistry Research, vol.55, no.44, pp.11445-11457, 2016 (SCI-Expanded)
30. **Performance of silicotungstic acid incorporated mesoporous catalyst in direct synthesis of dimethyl ether from syngas in the presence and absence of CO₂**
Celik G., Arinan A., Bayat A., Ozbek H. O., Doğu T., Varışlı D.
Topics in Catalysis, vol.56, pp.1764-1774, 2013 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

1. **Designing and Comparing the Catalytic Activity of Molten Metal Catalysts for Methane Pyrolysis**
Erbaşan A., Sökmen U., Eroğlu E., Mutlu R. N., Çelik G., Toffoli H., Gökalp I., Kardeş G.
27. Yoğun Madde Fiziği Ankara Toplantısı (YMF-27), Ankara, Turkey, 16 December 2022, pp.1
2. **Non-oxidative dehydrogenation of propane over phosphate-modified ZrO₂**
Bouziani A., Çelik G.
6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 - 28 September 2022, pp.1
3. **Non-oxidative propane dehydrogenation over anatase TiO₂-x**
Khan I. A., Bouziani A., Çelik G.
6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 September - 28 December 2022, pp.1
4. **Trikloroetilenin nikel içerikli katalizörlerle hidrodeklorinasyon yöntemiyle arındırılması**
Akyıldız E., İpek Torun B., Çelik G.
, 6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 - 28 September 2022, pp.1
5. **Metan Pirolizinde Eriyik Metal Alaşımlarla Turkuaz Hidrojen Eldesi**
Sökmen U., Çelik G., Erbaşan A., Eroğlu E., Toffoli H., Mutlu R. N., Gökalp I., Kardeş G.

6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 - 28 September 2022, pp.1

6. **Kinetik Olarak Birleştirilmiş Propan Dehidrojenasyonu ve Seçici Hidrojen Yanması Reaksiyonları için Tandem Katalizörlerin Hazırlanması**
Çaldıkkıoğlu A., Çelik G.
6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 - 28 September 2022, pp.1
7. **On the Dual Role of the Reactant during Aqueous Phase Hydrodechlorination of Trichloroethylene (HDC of TCE) Using Pd Supported on Swellable Organically Modified Silica (SOMS)**
Hunoor A., Ailawar S., Rudzinski B., Çelik G., Burel L., Millet J., Miller J. T., Edmiston P. L., Ozkan U. S.
27th North American Catalysis Society Meeting, New York, United States Of America, 22 - 27 May 2022, pp.1
8. **Effect of Particle Size on Resistance to Chloride for Hydrodechlorination of Trichloroethylene in Water**
Karahan S., Çelik G.
1st Forum of Young Researchers on Heterogeneous Catalysis, YOURHETCAT 2022, Szeged, Hungary, 11 - 13 July 2022, pp.1
9. **Nickel-Based Grafted Catalysts for Dry Reforming of Methane Through High-Throughput Experimentation**
Çelik G., Ferrandon M., Delferro M.
23rd World Hydrogen Energy Conference – WHEC2022, İstanbul, Turkey, 26 - 30 June 2022, pp.1
10. **On the Dual Role of the Reactant during Aqueous Phase Hydrodechlorination of Trichloroethylene Using Pd Supported on Swellable Organically Modified Silica**
Hunoor A., Ailawar S., Rudzinski B., Çelik G., Burel L., Millet J., Miller J. T., Edmiston P. L., Ozkan U. S.
AIChE 2021 Annual Meeting, 15 - 19 November 2021, pp.1
11. **Trikloroetilenin Hidrodeklorasyonunda Pt Nanopartikül Boyutunun HCl Kaynaklı Deaktivasyon Üzerindeki Etkisi**
Karahan S., Çelik G.
6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 - 28 September 2022, pp.1
12. **Effect of chlorination on the catalytic activity of ZrO₂ toward nonoxidative propane dehydrogenation**
Çelik G., Bouziani A.
12th International Conference on Environmental Catalysis (ICEC2022), Osaka, Japan, 30 July - 02 August 2022, pp.1
13. **Designing and Comparing the Catalytic Activity of Molten Metal Catalysts for Methane Pyrolysis**
Erbaşan A., Sökmen U., Eroğlu E., Mutlu R. N., Çelik G., Toffoli H., Gökalp I., Kardeş G.
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022, pp.1
14. **Propan dehidrojenasyonunda modifiye edilmiş hegzagonal bor nitrürün katalizör olarak kullanılması**
Karaevvaz M. C., Sezgi N. A., Çelik G.
6th Anatolian School of Catalysis 2022, İzmir, Turkey, 23 September - 28 December 2022, pp.1
15. **Exploring the catalytic conversion of methane: The role of coke formation and bimetallic supported metal nanoparticle catalysts for dry reforming of methane**
Byron C., Ferrandon M., Çelik G., McCormick R., Sloopy J., Booksh K., Delferro M., Ni C., Telpyakov A.
ACS Fall 2022, California, United States Of America, 21 - 26 August 2022, pp.1
16. **Ni Loaded on Dealuminated Mordenites for Aqueous-phase and Gas-phase Hydrodechlorination of Trichloroethylene**
AKYILDIZ E., İPEK TORUN B., ÇELİK G.
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022
17. **Catalytic Upcycling of Single-Use Polyolefins into Lubricants: A Path Forward for Circular Economy**
ÇELİK G., Delferro M., Erdemir A., Elgowainy A.
NCC-8 National Catalysis Congress, Turkey, 09 September 2021
18. **Yalın Yanma Koşullarında NO_x İndirilmesi İçin Çift Katalizörlü Egzoz Arındırma Sisteminin Katalitik Aktivitesi Üzerinde Oksidasyon Katalizörünün Sentez Yönteminin Etkisi**
ÇELİK G., Majumdar S. S., Ozkan U. S.

14. Ulusal Kimya Mühendisliği Kongresi, 10 June 2021
19. **Yalın Yanma Koşulları Altında NO_x İndirgemesi İçin Çift Katalizörlü Egzoz Arındırma Sisteminin Katalitik Aktivitesi Üzerinde Oksidasyon Katalizörünün Sentez Yönteminin Etkisi**
ÇELİK G., Majumdar S. S., Ozkan U. S.
14. Ulusal Kimya Mühendisliği Kongresi, Turkey, 10 June 2021
20. **Aqueous Phase Hydrodechlorination of TCE with Pd Supported Swellable Organically Modified Silica(SOMS): Effect of Ethanol on Reaction Kinetics**
Hunoor A., Çelik G., Özkan Ü. S., Miller J. T., Edmiston P. L., Özkan Ü. S.
AIChE 2020 Annual Meeting, Alabama, United States Of America, 16 - 20 November 2020, pp.1
21. **Determination of the Anti-coking Effect of Boron for Supported Platinum Catalysts**
Byron C., Bai S., Çelik G., Ferrandon M., Liu C., Ni C., Mehdad A., Delferro M., Lobo R., Telpyakov A.
ACS Spring 2020 National Meeting & Expo, Pennsylvania, United States Of America, 22 - 26 March 2020, pp.1
22. **Swellable Organically Modified Silica (SOMS) as a Catalyst Scaffold for Catalytic Treatment of Water through Hydrogenation and Hydrogenolysis Reactions**
Özkan Ü. S., Ailawar S., Hunoor A., Çelik G., Gündüz S., Miller J. T., Tao F., Edmiston P.
Annual Meeting of the American Institute of Chemical Engineers, Florida, United States Of America, 10 - 15 November 2019, pp.1
23. **Aqueous Phase Hydrodechlorination of Trichloroethylene Using Pd Supported on Swellable Organically Modified Silica (SOMS): Deactivation Due to Chloride and Sulfur Species**
Ailawar S. A., Çelik G., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L., Ozkan U. S.
2019 AIChE Annual Meeting, Florida, United States Of America, 10 - 15 November 2019
24. **Swellable Organically Modified Silica (SOMS) As a Catalyst Scaffold for Catalytic Treatment of Water through Hydrogenation and Hydrogenolysis Reactions**
Ozkan U. S., Ailawar S. A., Hunoor A., Çelik G., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L.
2019 AIChE Annual Meeting, Florida, United States Of America, 10 - 15 November 2019
25. **Hydrodechlorination of Trichloroethylene using Pd Catalysts Supported on Swellable Organically Modified Silica (SOMS),**
Özkan Ü. S., Çelik G., Ailawar S. A., Edmiston P.
French Conference on Catalysis FCCat2, Frejus, France, 3 - 07 June 2019, pp.1
26. **Catalytic upcycling of waste polymers by supported metal catalysts**
Kennedy R. M., ÇELİK G., Hackler R. A., ammal s., Ferrandon M. S., LaPointe A. M., Sadow A. D., Heyden A., Poeppelmeier K. R., Delferro M.
Fall National Meeting and Exposition of the American-Chemical-Society (ACS), 25 - 29 August 2019, vol.258
27. **Swellable Organically Modified Silica (SOMS): A Novel Support for Aqueous Phase Hydrodechlorination of Trichloroethylene**
Ailawar S. A., ÇELİK G., Hunoor A., Gunduz S., Edmiston P. L., Ozkan U. S.
NAM 26 - North American Catalysis Society Meeting, 23 - 28 June 2019
28. **Mechanistic Studies of a Silica Supported Organovanadium(III) Catalyst for Hydrocarbon Hydrogenation and Dehydrogenation**
Kaphan D. M., Langeslay R. R., Ferrandon M. S., Liu C., ÇELİK G., Delferro M.
NAM 26 - North American Catalysis Society Meeting, 23 - 28 June 2019
29. **Atomically Precise Strategy to Synthesize Bimetallic Platinum Nanoclusters for Non-Oxidative Dehydrogenation Catalysis**
ÇELİK G., Camacho-Bunquin J., Ferrandon M. S., Sohn H., Kropf A. J., Yang C., Wen J., Hackler R. A., Liu C., Marshall C. L., et al.
NAM 26 - North American Catalysis Society Meeting, 23 - 28 June 2019
30. **Electrophilic Pincer-Iridium (III) Complexes Supported on Metal Oxides for C–H Functionalization**
Syed Z., Kaphan D. M., Perras F. A., Pruski M., Ferrandon M. S., Wegener E. C., Kropf A. J., ÇELİK G., Wen J., Liu C., et al.
NAM 26 - North American Catalysis Society Meeting, 23 - 28 June 2019
31. **Hydrodechlorination of Trichloroethylene using Pd Catalysts Supported on Swellable Organically**

Modified Silica (SOMS)

Özkan Ü. S., Çelik G., Ailawar G., Edmiston P.

International Conference on Applied Catalysis and Chemical Engineering, Dubai, United Arab Emirates, 8 - 10 April 2019, pp.1

32. **Surface structural-chemical characterization of a supported organovanadium(III) catalyst**
Kaphan D. M., Langeslay R. R., Ferrandon M. S., ÇELİK G., Liu C., Sattelberger A. P., Delferro M.
257th National Meeting of the American-Chemical-Society (ACS), Orlando, United States Of America, 31 March - 04 April 2019, vol.257
33. **Swellable Organically Modified Silica (SOMS): A Novel Support for Pd Catalyzed Hydrodechlorination of Trichloroethylene in Aqueous Phase**
ÇELİK G., Ailawar S. A., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L., Ozkan U. S.
2018 AIChE Annual Meeting, Pittsburgh, PA, United States Of America, 28 October - 02 November 2018
34. **Hydrodechlorination of Trichloroethylene Using Pd Catalysts Supported on Swellable Organically Modified Silica (SOMS)**
Özkan Ü. S., Çelik G., Ailawar S. A., Edmiston P.
9th Eastern Mediterranean Conference of Chemical Engineering, Ankara, Turkey, 31 August - 02 September 2018, pp.1
35. **Hydrodechlorination of trichloroethylene using Pd catalysts supported on swellable organically modified silica (SOMS)**
Ozkan U. S., ÇELİK G., Ailawar S. A., Sohn H., Gunduz S., Edmiston P. L.
256th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nanoscience, Nanotechnology and Beyond, Boston, 19 - 23 August 2018, vol.256
36. **Investigation of the Effect of Alumina Binder Addition to Palladium Supported on Sulfated Zirconia Catalysts during Sol-Gel Synthesis**
Majumdar S. S., ÇELİK G., Ozkan U. S.
NAM 25 - North American Catalysis Society Meeting, Denver, 4 June - 04 September 2017
37. **Catalytic Treatment of Water Contaminated with Trichloroethylene**
ÇELİK G., Sohn H., Gunduz S., Ailawar S. A., Edmiston P. L., Ozkan U. S.
NAM 25 - North American Catalysis Society Meeting, Denver, 4 - 09 June 2017
38. **Aqueous-phase Hydrodechlorination of Trichloroethene over Pd-supported on Swellable Organically-modified Silica (SOMS)**
ÇELİK G., Ailawar S. A., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L., Ozkan U. S.
2016 AIChE Annual Meeting, San-Francisco, Costa Rica, 13 November 2016 - 18 November 2019
39. **Wash-coat development for Lean-burn Engine-exhaust Aftertreatment: A Novel Way of Incorporation of Binder to Pd Supported on Sulfated Zirconia**
Çelik G., Ailawar S. A., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L., Ozkan U. S.
2016 AIChE Annual Meeting, Florida, United States Of America, 13 November 2016 - 18 November 2019
40. **Catalytic Treatment of Water Contaminated with Chlorinated Hydrocarbons**
ÇELİK G., Ailawar S. A., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L., Ozkan U. S.
2016 AIChE Annual Meeting, San-Francisco, Costa Rica, 13 November 2016 - 18 November 2019
41. **Carbon Dioxide Utilization in Conversion of Synthesis Gas to Methanol and Dimethyl Ether over New Catalyst Pairs, ECCE 10 + ECAB 3 + EPIC5**
Doğu T., Bayat A., Çelik G.
10th European Congress of Chemical Engineering, 3rd European Congress of Applied Biotechnology, 5th European Process Intensification Conference, Nice, France, 27 September - 01 October 2015, pp.1
42. **Wash-Coat Development for Lean-Burn Engine-Exhaust Aftertreatment: Incorporation of Binder to Pd Supported on Sulfated Zirconia**
Majumdar S. S., ÇELİK G., Ozkan U. S.
NAM 24 - North American Catalysis Society Meeting, Pittsburgh, PA, 14 - 19 July 2015
43. **Hydrogenation and hydrogenolysis reactions involved in treatment of water contaminated with chlorinated hydrocarbons**

Sohn H., ÇELİK G., Edmiston P. L., Ozkan U. S.

ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 21 - 25 August 2016, vol.252

44. **From synthesis gas to a clean transportation fuel dimethyl ether: New nanocomposite bifunctional catalyst pairs**

Arslan A., Bayat A., ÇELİK G., DOĞU T.

Nanotechnology 2013: Advanced Materials, CNTs, Particles, Films and Composites - 2013 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2013, Washington, United States Of America, 12 - 16 May 2013, vol.1, pp.460-462

45. **Dimethyl Ether from Synthesis Gas over Bifunctional Hybrid Catalysts**

Çelik G., Arinan A., Varişli D., Doğu T.

4th National Catalysis Conference, Kocaeli, Turkey, 21 - 24 March 2012, pp.47-48

46. **Synthesis of Diesel Fuel Alternate Dimethyl Ether from Synthesis Gas & Also By Methanol Dehydration over Heteropolyacid Based Catalysts**

Arinan A., Çiftçi A., Çelik G., Varişli D., Doğu T.

12th Mediterranean Congress of Chemical Engineering, Barcelona, Spain, 15 - 18 November 2011, pp.1

Academic and Administrative Experience

2021 - Continues	Deputy Head of Department	Middle East Technical University
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Metrics

Publication: 76

Citation (WoS): 504

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H-Index (WoS): 12

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Congress and Symposium Activities

Heterojen Katalizörlerin Test Edilmesi ve Performans Değerlendirmesi, Invited Speaker, İzmir, Turkey, 2022

Invited Talks

Heterojen Katalizörlerin Test Edilmesi ve Performans Değerlendirmesi, Conference, 6. Anadolu Kataliz Yaz Okulu, Turkey, September 2022

Catalysis for Polymer Upcycling, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, November 2021

Upcycling of Single-Use Polyolefins into Lubricants: A Path Forward for Circular Economy, Seminar, İhsan Doğramacı Bilkent Üniversitesi, Turkey, October 2021

Catalysis for Polymer Upcycling, Seminar, Koç Üniversitesi, Turkey, April 2020

Hidrojen Ekonomisiyle Karbondioksitin Net Pozitif Kullanımı, Conference, T.C. Enerji ve Tabii Kaynaklar Bakanlığı, Turkey, January 2020