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Öğrenim Bilgisi

Ön Lisans 2020 - 2022	Anadolu Üniversitesi, Otel, Lokanta Ve İkram Hizmetleri Bölümü, Türkiye
Post Doktora 2018 - 2019	Argonne National Laboratory, Chemical Sciences and Engineering Division, Catalysis Science Program, Amerika Birleşik Devletleri
Doktora 2013 - 2018	The Ohio State University, Faculty of Engineering, Chemical and Biomolecular Engineering, Amerika Birleşik Devletleri
Yüksek Lisans 2010 - 2012	Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye
Lisans 2005 - 2010	Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi 2020 - Devam Ediyor	Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
Araştırma Görevlisi 2010 - 2012	Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Burslar

2232 - Uluslararası Lider Araştırmacılar Programı, TÜBİTAK, 2020 - Devam Ediyor

Jüri Üyelikleri

Tez Savunma (Doktora), Tez Savunma (Doktora), Orta Doğu Teknik Üniversitesi, Temmuz, 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Effect of Pt nanoparticle size on resistance to chloride-induced inhibition for hydrodechlorination of trichloroethylene in water**
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- 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.
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- Ternary Polyaniline@Bi₂O₃-BiOCl Nanocomposites as Innovative Highly Active Photocatalysts for the Removal of the Dye under Solar Light Irradiation**
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BOUZIANI A., Yahya M., Naciri Y., Hsini A., Khan M. A., Sillanpää M., ÇELİK G.
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- Synthetic Lubricants Derived from Plastic Waste and their Tribological Performance**
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ChemSusChem, cilt.14, sa.19, ss.4181-4189, 2021 (SCI-Expanded)
- 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, cilt.291, 2021 (SCI-Expanded)
- Effect of High Temperature on Swellable Organically Modified Silica (SOMS) and Its Application for Preferential CO Oxidation in H₂ Rich Environment**
Basu D., Ailawar S., Celik G., Edmiston P., Ozkan U. S.
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- 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.

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11. **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.
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12. **Mechanistic Aspects of a Surface Organovanadium(III) Catalyst for Hydrocarbon Hydrogenation and Dehydrogenation**
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13. **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, cilt.5, sa.11, ss.1795-1803, 2019 (SCI-Expanded)
14. **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.
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15. **Aqueous-Phase Hydrodechlorination of Trichloroethylene over Pd-Based Swellable Organically Modified Silica: Catalyst Deactivation Due to Sulfur Species**
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16. **Formation of carbonaceous deposits on Pd-based hydrodechlorination catalysts: Vibrational spectroscopy investigations over Pd/Al₂O₃ and Pd/SOMS**
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17. **Effect of alumina incorporation on the sulfur tolerance of the dual-catalyst aftertreatment system for reduction of nitrogen oxides under lean conditions**
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18. **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, cilt.239, ss.654-664, 2018 (SCI-Expanded)
19. **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.
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20. **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.
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21. **Enhancement in Oxygen Reduction Reaction Activity of Nitrogen-Doped Carbon Nanostructures in Acidic Media through Chloride-Ion Exposure**
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23. **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.
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24. **Oxygen Mobility in Pre-Reduced Nano- and Macro-Ceria with Co Loading: An AP-XPS, In-Situ DRIFTS and TPR Study**
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25. **Effect of high-temperature on the swellable organically-modified silica (SOMS) and its application to gas-phase hydrodechlorination of trichloroethylene**
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26. **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.
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27. **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, cilt.55, sa.44, ss.11445-11457, 2016 (SCI-Expanded)
28. **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., Ozbelge H. O., Doğu T., Varışlı D.
Topics in Catalysis, cilt.56, ss.1764-1774, 2013 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. **Metan Pirolizinde Eriyik Metal Katalizörleri'nin İlk Prensipler ile Teorik Olarak Modellenmesi ve Katalitik Aktivitelerinin Karşılaştırması**
Erbasan A., Sökmen U., Eroğlu E., Mutlu R. N., Çelik G., Toffoli H., Gökalp I., Kardaş G.
27. Yoğun Madde Fiziği Ankara Toplantısı (YMF-27), Ankara, Türkiye, 16 Aralık 2022, ss.1
2. **Non-oxidative dehydrogenation of propane over phosphate-modified ZrO₂**
Bouziani A., Çelik G.
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3. **Non-oxidative propane dehydrogenation over anatase TiO_{2-x}**
Khan I. A., Bouziani A., Çelik G.
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4. **Trikloroetilenin nikel içerikli katalizörlerle hidrodeklorinasyon yöntemiyle arındırılması**
Akyıldız E., Ipek Torun B., Çelik G.
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5. **Metan Pirolizinde Eriyik Metal Alaşım larla Turkuaz Hidrojen Eldesi**
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6. **Kinetik Olarak Birleştirilmiş Propan Dehidrojenasyonu ve Seçici Hidrojen Yanması Reaksiyonları için Tandem Katalizörlerin Hazırlanması**
Çaldıkhöğlü A., Çelik G.
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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.
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8. **Effect of Particle Size on Resistance to Chloride for Hydrodechlorination of Trichloroethylene in Water**
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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, Türkiye, 26 - 30 Haziran 2022, ss.1
10. **On the Dual Role of the Reactant during Aqueous Phase Hydrodechlorination of Trichloroethylene Using Pd Supported on Swellable Organically Modified Silica**
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11. **Trikloroetilenin Hidrodeklorasyonunda Pt Nanopartikül Boyutunun HCl Kaynaklı Deaktivasyon Üzerindeki Etkisi**
Karahana S., Çelik G.
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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, Japonya, 30 Temmuz - 02 Ağustos 2022, ss.1
13. **Designing and Comparing the Catalytic Activity of Molten Metal Catalysts for Methane Pyrolysis**
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14. **Propan dehidrojenasyonunda modifiye edilmiş hegzagonal bor nitrürün katalizör olarak kullanılması**
Karaevvaz M. C., Sezgi N. A., Çelik G.
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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.
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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, Türkiye, 5 - 08 Eylül 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, Türkiye, 09 Eylül 2021
18. **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, 10 Haziran 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, Türkiye, 10 Haziran 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.

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21. **Determination of the Anti-coking Effect of Boron for Supported Platinum Catalysts**
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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.
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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.
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Ozkan U. S., Ailawar S. A., Hunoor A., Çelik G., Gunduz S., Miller J. T., Tao F. F., Edmiston P. L.
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25. **Hydrodechlorination of Trichloroethylene using Pd Catalysts Supported on Swellable Organically Modified Silica (SOMS),**
Özkan Ü. S., Çelik G., Ailawar S. A., Edmiston P.
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26. **Catalytic upcycling of waste polymers by supported metal catalysts**
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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 Haziran 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.
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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.
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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.
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31. **Hydrodechlorination of Trichloroethylene using Pd Catalysts Supported on Swellable Organically Modified Silica (SOMS)**
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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.
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33. **Swellable Organically Modified Silica (SOMS): A Novel Support for Pd Catalyzed Hydrodechlorination of Trichloroethylene in Aqueous Phase**
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34. **Hydrodechlorination of Trichloroethylene Using Pd Catalysts Supported on Swellable Organically Modified Silica (SOMS)**
Özkan Ü. S., Çelik G., Ailawar S. A., Edmiston P.
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35. **Hydrodechlorination of trichloroethylene using Pd catalysts supported on swellable organically modified silica (SOMS)**
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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 Haziran - 04 Eylül 2017
37. **Catalytic Treatment of Water Contaminated with Trichloroethylene**
ÇELİK G., Sohn H., Gunduz S., Ailawar S. A., Edmiston P. L., Ozkan U. S.
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38. **Aqueous-phase Hydrodechlorination of Trichloroethene over Pd-supported on Swellable Organically-modified Silica (SOMS)**
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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.
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40. **Catalytic Treatment of Water Contaminated with Chlorinated Hydrocarbons**
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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, Fransa, 27 Eylül - 01 Ekim 2015, ss.1
42. **Wash-Coat Development for Lean-Burn Engine-Exhaust Aftertreatment: Incorporation of Binder to Pd Supported on Sulfated Zirconia**
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43. **Hydrogenation and hydrogenolysis reactions involved in treatment of water contaminated with chlorinated hydrocarbons**
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44. **From synthesis gas to a clean transportation fuel dimethyl ether: New nanocomposite bifunctional catalyst pairs**
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Akademik İdari Deneyim

2021 - Devam Ediyor	Bölüm Başkan Yardımcısı	Orta Doğu Teknik Üniversitesi
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Metrikler

Yayın: 74
Atıf (WoS): 504
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H-İndeks (Scopus): 14

Kongre ve Sempozyum Katılımı Faaliyetleri

Heterojen Katalizörlerin Test Edilmesi ve Performans Değerlendirmesi, Davetli Konuşmacı, İzmir, Türkiye, 2022

Davetli Konuşmalar

Heterojen Katalizörlerin Test Edilmesi ve Performans Değerlendirmesi, Konferans, 6. Anadolu Kataliz Yaz Okulu, Türkiye, Eylül 2022
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