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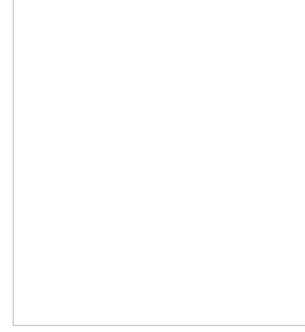
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Learning Knowledge

Doctorate 1994 - 1999	Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği , Turkey
Postgraduate 1992 - 1994	Istanbul Technical University, Fen Bilimleri Enstitüsü, Chemical Engineering, Turkey
Undergraduate 1987 - 1991	Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey

Academic Titles / Tasks

Professor 2021 - Continues	Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği
Professor 2009 - 2021	Siirt University, Faculty Of Engineering-Architecture, Department Of Chemistry Engineering
Associate Professor 2003 - 2008	Harran University, Faculty Of Arts And Sciences, Department Of Chemistry
Assistant Professor 2003 - 2003	Harran University, Faculty Of Arts And Sciences, Department Of Chemistry
Research Assistant 1994 - 2003	Harran University, Faculty Of Arts And Sciences, Department Of Chemistry

Supported Projects

1. Şahin Ö., Hacıyakupoğlu S., Reyhancan İ. A., Durmayaz A., Ünlü C., Şenkal B. F., Project Supported by Higher Education Institutions, Nükleer Reaktör Teknolojisinde Tıpta ve Endüstrideki İyonizan Radyasyonları Zırhlama Amacıyla Yenilikçi Kompozit Malzemelerin Araştırılması Geliştirilmesi ve Üretimi, 2023 - Continues
2. Şahin Ö., EKİNCİ A., Büyükanber K., Project Supported by Higher Education Institutions, Metal katalizörler Yüklendi Karbon Küreciklerin Hidrotermal ve Ultrasonik Piroliz Yöntemi ile Üretimi ve Sodyum Borhidrür Yakıt Pilli Uygulamaları, 2022 - Continues
3. Şahin Ö., Gürbüz H., KUTLUAY S., Genceli Güner F. E., Kenar M. E., Project Supported by Higher Education Institutions, Grafit Karbon Nitrür ve SilikaJel Destek Malzemelerine Metal Katalizörlerin Yüklendi ve Sodyum Borhidrürün Hidrolizinde Kullanımı, 2022 - Continues
4. Kutluay S., Şahin Ö., Haskan N., Project Supported by Higher Education Institutions, Grafen/metal oksit nanokompozitlerin USP yöntemi ile üretimi ve CO2 adsorpsiyonu için uygulanması, 2022 - 2024
5. Şahin Ö., Kutluay S., Gürbüz H., Genceli Güner F. E., Kenar M. E., Project Supported by Higher Education Institutions, Grafit Karbon Nitrür ve SilikaJel Destek Malzemelerine Metal Katalizörlerin Yüklendi ve Sodyum Borhidrürün Hidrolizinde Kullanımı, 2022 - 2023
6. Şahin Ö., Kutluay S., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Potasyum Tetraborat Tetrahidratın ve Ultrasaf Borik Asitin Kristalizasyonla Üretiminde Partikül Boyutunun Kontrolü/Kekleşme Sorunun Giderilmesi (TENMAK-BOREN, 2020-30-06-30-001), 2020 - 2023
7. Şahin Ö., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Potasyum Tetraborat Tetrahidratın ve Ultrasaf Borik Asitin Kristalizasyonla Üretiminde Partikül Boyutunun Kontrolü/Kekleşme Sorunun Giderilmesi (TENMAK-BOREN, 2020-30-06-30-001), 2020 - 2023
8. Kılınç D., Şahin Ö., Project Supported by Higher Education Institutions, Farklı Polimerik Malzemelerle Desteklenmiş Schiff Bazı Nikel Komplekslerinin Sentezi, Karakterizasyonu, Hidroliz Ve Hidrojenasyon Reaksiyonlarındaki Katalitik Aktivitesinin İncelenmesi, 2017 - 2022
9. Ece M. Ş., Şahin Ö., Kutluay S., Project Supported by Higher Education Institutions, Nanoboyutlu Silika Kaplı Manyetitlerin ve Bunların Metal Bileşiklerinin Sentezlenmesi ve Güneş Pilleri, Hidrojen Üretimi, Fotokataliz, Hidrojenasyon Reaksiyonları ve Gaz Adsorpsiyonunda Kullanımının Araştırılması (Proje No: MAÜ.BAP.18.SHMYO.030), 2018 - 2021
10. Ece M. Ş., Şahin Ö., Kutluay S., Project Supported by Higher Education Institutions, x Nanoboyutlu Silika Kaplı Manyetitlerin ve Bunların Metal Bileşiklerinin Sentezlenmesi ve Güneş Pilleri, Hidrojen Üretimi, Fotokataliz, Hidrojenasyon Reaksiyonları ve Gaz Adsorpsiyonunda Kullanımının Araştırılması (Proje No: MAÜ.BAP.18.SHMYO.030), 2018 - 2021
11. Şahin Ö., Baytar O., Demir H., İzgi M. S., Project Supported by Higher Education Institutions, Yer fıstığı kabuğundan aktif karbon üretilmesi ve potasyum borhidrür hidrolizinde kullanılan ikili metal bor katalizörleri için destek malzemesi olarak kullanılması, 2018 - 2020
12. Şahin Ö., Horoz S., TUBITAK Project, Zn₂SnO₄-Mn: Sb₂S₃, Zn₂SnO₄-Ni: Sb₂S₃, Zn₂SnO₄-Fe: Sb₂S₃, Zn₂SnO₄-Co: Sb₂S₃ Yarı İletken Nanokristallerinin Fotovoltaik, Yapısal, Biçimsel Ve Optiksel Özelliklerinin İncelenmesi, 2017 - 2020
13. Şahin Ö., İzgi M. S., Demirci S., Baytar O., Project Supported by Higher Education Institutions, Biotatlardan Aktif Karbon Eldesi ve Katatalizör Destek Malzemesi Olarak Kullanılması, 2018 - 2019
14. Şahin Ö., Horoz S., İkinci A., Project Supported by Higher Education Institutions, Zn₂SnO₄ - CdZnS ve Zn₂SnO₄ - Mn: CdZnS Kuantum Noktalarının Yapısal, Optiksel ve Fotovoltaik Özelliklerinin Karşılaştırılıp İncelenmesi, 2017 - 2018
15. Şahin Ö., Project Supported by Higher Education Institutions, Susam sapından aktif karbon eldesi ve Aspergillus niger amiloglukozidazın immobilazasyonunda kullanılması, 2017 - 2018
16. Şahin Ö., Baytar O., Horoz S., Project Supported by Higher Education Institutions, NanoBoyutta Farklı Katalizörlerin Sentezlenmesi Ve Fotokatalitik Uygulamaları, 2016 - 2017
17. Şahin Ö., Adıgüzel V., Demirci S., TUBITAK Project, Karşılıklı Dörtlü Na⁺, Zn²⁺/Cl⁻, H₂PO₄⁻/H₂O Sisteminin Faz Dengelerinin ve Çözünürlük özelliklerinin 25, 40 ve 60°C'de İncelenmesi, 2014 - 2016
18. Koç H., Şahin Ö., Horoz S., Project Supported by Higher Education Institutions, Kimyasal depolama yöntemi kullanılarak Sb₂S₃ ince filmlerin eldesi ve karakterizasyonu, 2014 - 2016
19. Balbay A., Şahin Ö., Demirtaş S., Project Supported by Higher Education Institutions, Siirt ilinde güneş enerjili

tarımsal sulamanın araştırılması, 2014 - 2016

20. Şahin Ö., Project Supported by Other Official Institutions, Sülfirik Asitle kolemanitten borik asit ve tinkolden boraks pentahidrat üretiminde kristalizasyon prosesinin incelenmesi (ETİ MADEN İŞLETMELERİ GENEL MÜDÜRLÜĞÜ, 400.02[TGD.2014/3]), 2014 - 2016
21. Şahin Ö., Kutluay S., Project Supported by Other Official Institutions, Sülfirik Asitle Kolemanitten Borik Asit ve Tinkalden Boraks Pentahidrat Üretiminde Kristalizasyon Prosesinin İncelenmesi (ETİ MADEN İŞLETMELERİ GENEL MÜDÜRLÜĞÜ, 400.02[TGD.2014/3]), 2014 - 2016
22. Şahin Ö., Balbay A., Saka C., Ekinci A., Project Supported by Higher Education Institutions, Modifiye edilmiş çeşitli katalizörler varlığında Sodyum Bor hidrürde elde edilen hidrojenin yakıt pillerinde kullanımı, 2014 - 2015
23. Saka C., Şahin Ö., Kaya M., Project Supported by Higher Education Institutions, Sepiyolit ve bentonit killeri üzerine soğuk plazma etkisinin incelenmesi ve elde edilen adsorbentler ile boyar maddelerin adsorpsiyonu, 2014 - 2015
24. Ceyhan A. A., Şahin Ö., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Amonyum Floroborat Üretimi ve Üretim Parametrelerinin Belirlenmesi, 2013 - 2015
25. Şahin Ö., İzgi M. S., TUBITAK Project, Lityum Metaborat Dihidratın Kristalizasyonu ve Kristalizasyonuna Etki Eden Çeşitli Parametrelerin Belirlenmesi, 2011 - 2014
26. Demir H., Şahin Ö., TUBITAK Project, Potasyum pentaborat tetrahidrat ve lityum tetraborat trihidratın üretimi ve üretim şartlarının belirlenmesi, 2008 - 2010
27. Şahin Ö., Ağırtaş M. S., TUBITAK Project, Yeni bir yöntem kullanarak yüksek döküm yoğunluklu bor oksit üretimi, 2007 - 2008
28. Şahin Ö., TUBITAK Project, Lityum ve potasyum tetraboratların üretim koşullarının belirlenmesi, 2005 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Potential of nickel oxide catalyst from banana peel extract via green synthesis method in both photocatalytic reduction of methylene blue and generation of hydrogen from sodium borohydride hydrolysis**
Şahin Ö., Baytar O., Kutluay S., Ekinci A.
Journal of Photochemistry and Photobiology A: Chemistry, vol.448, 2024 (SCI-Expanded)
2. **Highly active hydrogen production from hydrolysis of potassium borohydride by caffeine carbon quantum dot-supported cobalt catalyst in ethanol solvent by hydrothermal treatment**
Onat E., Sait İzgi M., Şahin Ö., Saka C.
International Journal of Hydrogen Energy, vol.51, pp.362-375, 2024 (SCI-Expanded)
3. **Green and active hydrogen production from hydrolysis of ammonia borane by using caffeine carbon quantum dot-supported ruthenium catalyst in methanol solvent by hydrothermal treatment**
İzgi M. S., Onat E., Şahin Ö., Saka C.
International Journal of Hydrogen Energy, vol.51, pp.180-192, 2024 (SCI-Expanded)
4. **Facile "Green" synthesis of a novel Co-W-B catalyst from Rheum ribes shell extract and its effect on sodium borohydride hydrolysis: Kinetic mechanism**
Ekinci A., Genli N., Şahin Ö., Baytar O.
International Journal of Hydrogen Energy, vol.51, pp.796-808, 2024 (SCI-Expanded)
5. **Biogenic Synthesized Bare and Boron-Doped Copper Oxide Nanoparticles from Thymbra spicata ssp. spicata: In Silico and In Vitro Studies**
Cengiz M., Baytar O., Şahin Ö., Kutlu H. M., AYHANCİ A., Veyselova Sezer C., Gür B.
Journal of Cluster Science, vol.35, no.1, pp.265-284, 2024 (SCI-Expanded)
6. **Novel adsorbent for malachite green from okra stalks waste: synthesis, kinetics and equilibrium studies**
Yildiz H., Gülşen H., Şahin Ö., Baytar O., Kutluay S.
International Journal of Phytoremediation, vol.26, no.3, pp.369-381, 2024 (SCI-Expanded)
7. **Green synthesis of NiO from watermelon seed shell extract for the evaluation of H₂ production from NaBH₄ hydrolysis and photocatalytic reduction of methylene blue**

Baytar O., Ekinci A., Şahin Ö., Kutluay S.

Materials Science and Engineering: B, vol.296, 2023 (SCI-Expanded)

8. **Microwave application as an alternative method to increase the efficiency of PtC catalyst in PEMFCs**
Şahin Ö., Yilmaz A., Ekinci A.
Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, vol.237, no.6, pp.1329-1336, 2023 (SCI-Expanded)
9. **Effect of environmentally friendly and efficient metal-free hydrochars as catalysts on sodium borohydride hydrolysis**
Baytar O., Şahin Ö., Ekinci A.
Fuel, vol.346, 2023 (SCI-Expanded)
10. **Synthesized PdNi/C and PdNiZr/C catalysts for single cell PEM fuel cell cathode catalysts application**
Şahin Ö., Akdag A., Horoz S., Ekinci A.
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11. **Effects of H₂/O₂ and H₂/O₃ gases on PtMo/C cathode PEMFCs performance operating at different temperatures**
Şahin Ö., Akdag A., Horoz S., Ekinci A.
International Journal of Hydrogen Energy, vol.48, no.44, pp.16829-16840, 2023 (SCI-Expanded)
12. **Optimizing hydrogen production from alkali hydrides using supported metal catalysts**
Karabulut A., İzgi M. S., Demir H., Şahin Ö., Horoz S.
Ionics, vol.29, no.5, pp.1975-1982, 2023 (SCI-Expanded)
13. **Physical and Electrochemical Effect of Bimetallic Pd-Mo Nanoalloys Supported on Vulcan XC-72R Carbon as Cathode Catalysts for Proton Exchange Membrane Fuel Cell**
Şahin Ö., Akdag A., Horoz S., EKİNCİ A.
ELECTROCATALYSIS, vol.14, no.2, pp.202-212, 2023 (SCI-Expanded)
14. **High solar cell efficiency of lanthanum-alloyed activated carbon-supported cadmium sulfide as a promising semiconductor nanomaterial**
Batur E., Baytar O., Horoz S., Kutluay S., Şahin Ö.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.59, no.1, pp.9-18, 2023 (SCI-Expanded)
15. **Superior incident photon-to-current conversion efficiency of Mo-doped activated carbon supported CdS-sensitized solar cells**
Batur E., Kutluay S., Baytar O., Şahin Ö., Horoz S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.8, pp.19766-19775, 2023 (SCI-Expanded)
16. **Iodine adsorption and electrochemical double-layer capacitor characteristics of activated carbon prepared from low-cost biomass**
Saka C., Yardım Y., Şahin Ö., Baytar O.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.25, no.1, pp.74-81, 2023 (SCI-Expanded)
17. **Green synthesis of copper oxide and manganese oxide nanoparticles from watermelon seed shell extract for enhanced photocatalytic reduction of methylene blue**
Ekinci A., Kutluay S., Şahin Ö., Baytar O.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.25, no.6, pp.789-798, 2023 (SCI-Expanded)
18. **Oxygen plasma treated petroleum coke adsorbent: characterization, synthesis, mechanism, and application for enhancement of malachite green removal**
Saka C., Olcenoglu G. E., Şahin Ö.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.103, no.5, pp.1186-1202, 2023 (SCI-Expanded)
19. **Investigation of the properties of Cr-doped CdZnS nanocrystals with the best IPCE (%) value**
Şahin Ö., Horoz S.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, no.5, pp.1709-1714, 2022 (SCI-Expanded)
20. **An Investigation of the Effect of CuMoB Nanocatalysts on Efficient Hydrogen Production**
Demirci S., İzgi M. S., Beştaş H., Şahin Ö.
Russian Journal of Applied Chemistry, vol.95, no.9, pp.1418-1426, 2022 (SCI-Expanded)

21. **Surface modification of carbon fibres with electroactive PEDOT/epoxy composites**
Huner K., Dolas H., Sarac A. S.
BULLETIN OF MATERIALS SCIENCE, vol.45, no.3, 2022 (SCI-Expanded)
22. **Efficiency of TiO₂-supported Ni-Mo-Ru-B catalyst for hydrogen production from potassium borohydride hydrolysis**
Keskin M. S., Şahin Ö., Horoz S.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, no.3, pp.973-979, 2022 (SCI-Expanded)
23. **Enhancement in incident photon-to-current conversion efficiency of manganese-decorated activated carbon-supported cadmium sulfide nanocomposite**
Batur E., Baytar O., Horoz S., Şahin Ö., Kutluay S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.20, pp.16286-16296, 2022 (SCI-Expanded)
24. **Co-Mn-B Nanoparticles Supported on Epoxy-Based Polymer as Catalyst for Evolution of H₂ from Ammonia Borane Semi-Methanolysis**
Çelik Kazıcı H., İzgi M. S., Şahin Ö.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.5, pp.2356-2368, 2022 (SCI-Expanded)
25. **Fabrication and characterization of Fe₃O₄/perlite, Fe₃O₄/perlite@SiO₂, and Fe₃O₄/perlite@SiO₂@sulfanilamide magnetic nanomaterials**
Kutluay S., Şahin Ö., Ece M. S.
Applied Physics A: Materials Science and Processing, vol.128, no.3, 2022 (SCI-Expanded)
26. **High hydrogen production rate from potassium borohydride hydrolysis with an efficient catalyst: CNT@Ru(0)**
Keskin M. S., Ağırtaş M. S., Baytar O., İzgi M. S., Şahin Ö., Horoz S.
DESALINATION AND WATER TREATMENT, vol.250, pp.189-196, 2022 (SCI-Expanded)
27. **Kinetics of catalytic hydrolysis of NaBH₄ solution: Ni-La-B catalyst**
Ekinci A., Şahin Ö., Horoz S.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, no.1, pp.113-121, 2022 (SCI-Expanded)
28. **Ternary SLE Measurements for the Systems H₂O+ZnCl₂+Zn(H₂PO₂)(2) at T=(298, 313 and 333) K**
Demirci S., Adiguzel V., Şahin Ö., Erge H.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.44, no.1, pp.27-32, 2022 (SCI-Expanded)
29. **Preparation and characterization of activated carbon from hydrochar by hydrothermal carbonization of chickpea stem: an application in methylene blue removal by RSM optimization**
Genli N., Kutluay S., Baytar O., Şahin Ö.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.24, no.1, pp.88-100, 2022 (SCI-Expanded)
30. **Solid-liquid phase equilibria in the ternary systems H₂O+ZnCl₂+NaCl at temperatures of 298, 313 and 333 K**
Demirci S., Adiguzel V., Şahin Ö.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.87, pp.263-273, 2022 (SCI-Expanded)
31. **Development of highly efficient and reusable Ruthenium complex catalyst for hydrogen evolution**
Kilinc D., Şahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.6, pp.3876-3885, 2022 (SCI-Expanded)
32. **An efficient synergistic Co@CQDs catalyst for hydrogen production from the hydrolysis of NH₃BH₃**
Onat E., Şahin Ö., İzgi M. S., Horoz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.23, pp.27251-27259, 2021 (SCI-Expanded)
33. **Investigation of high catalytic activity catalyst for high hydrogen production rate: Co-Ru@MOF**
Onat E., Cevik S., Şahin Ö., Horoz S., İzgi M. S.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.57, no.5, pp.1389-1395, 2021 (SCI-Expanded)
34. **Highly improved solar cell efficiency of Mn-doped amine groups-functionalized magnetic Fe₃O₄@SiO₂ nanomaterial**
Kutluay S., Horoz S., Şahin Ö., Ekinci A., Ece M. S.

- INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.14, pp.20176-20185, 2021 (SCI-Expanded)
35. **Investigation of the kinetic properties of Co-La-Ce-B catalyst for sodium borohydride solutions to generate hydrogen for polymer electrolyte membrane fuel cell**
Ekinci A., Sahin Ö., Horoz S.
DESALINATION AND WATER TREATMENT, vol.237, pp.137-145, 2021 (SCI-Expanded)
 36. **Catalytic activity of cobalt-boron-fluoride particles with different solvent mediums on sodium borohydride hydrolysis for hydrogen generation**
Izgi M. S., Sahin Ö., Baytar O., Saka C.
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 37. **Effect of plasma pretreatment of Co-Cu-B catalyst on hydrogen generation from sodium borohydride methanolysis**
Sahin Ö., Izgi M. S., Tayboga S., Çelik Kazıcı H.
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.133, no.2, pp.851-861, 2021 (SCI-Expanded)
 38. **Facile synthesis and comprehensive characterization of Ni-decorated amine groups-immobilized Fe₃O₄@SiO₂ magnetic nanoparticles having enhanced solar cell efficiency**
Ece M. S., Ekinci A., Kutluay S., Sahin Ö., Horoz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.13, pp.18192-18204, 2021 (SCI-Expanded)
 39. **Ruthenium-Imine catalyzed KBH₄ hydrolysis as an efficient hydrogen production system**
Kilinc D., Sahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.40, pp.20984-20994, 2021 (SCI-Expanded)
 40. **Production of activated carbon from Elaeagnus angustifolia seeds using H₃PO₄ activator and methylene blue and malachite green adsorption**
Baytar O., Ceyhan A. A., Sahin Ö.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.23, no.7, pp.693-703, 2021 (SCI-Expanded)
 41. **A comprehensive study on the synthesis, characterization and mathematical modeling of nanostructured Co-based catalysts using different support materials for AB hydrolysis**
Çelik Kazıcı H., Izgi M. S., Sahin Ö.
CHEMICAL PAPERS, vol.75, no.6, pp.2713-2725, 2021 (SCI-Expanded)
 42. **Synthesis and characterization of Fe:MgZnO/AC as a prospective high photocatalytic material**
Cevik M. S., Horoz S., Baytar O., Sahin Ö., Ekinci A.
JOURNAL OF OVONIC RESEARCH, vol.17, no.3, pp.291-298, 2021 (SCI-Expanded)
 43. **Synthesis of Co-doped NiO/AC photocatalysts and their use in photocatalytic degradation**
Bulut N., Baytar O., Sahin Ö., Horoz S.
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 44. **SYNTHESIS OF ACTIVATED CARBON IN THE PRESENCE OF HYDROCHAR FROM CHICKPEA STALK AND ITS CHARACTERIZATION**
Genli N., Sahin Ö., Baytar O., Horoz S.
JOURNAL OF OVONIC RESEARCH, vol.17, no.2, pp.117-124, 2021 (SCI-Expanded)
 45. **Untangling the cobalt promotion role for ruthenium in sodium borohydride dehydrogenation with multiwalled carbon nanotube-supported binary ruthenium cobalt catalyst**
Avci Hansu T., Sahin Ö., caglar A., DEMİR KIVRAK H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.4, pp.6054-6066, 2021 (SCI-Expanded)
 46. **Fabrication and characterization of 3,4-diaminobenzophenone-functionalized magnetic nanoadsorbent with enhanced VOC adsorption and desorption capacity**
Sahin Ö., Kutluay S., Horoz S., Ece M. S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.5, pp.5231-5253, 2021 (SCI-Expanded)
 47. **Highly active and stable CeO₂ supported nickel-complex catalyst in hydrogen generation**
Kilinc D., Sahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.1, pp.499-507, 2021 (SCI-Expanded)

48. **Investigation of the effect of magnesium and activated carbon on the photocatalytic degradation reaction of ZnO photocatalyst**
Cevik M. S., Sahin Ö., Baytar O., Horoz S., Ekinci A.
DESALINATION AND WATER TREATMENT, vol.209, pp.212-218, 2021 (SCI-Expanded)
49. **A comprehensive new study on the removal of Pb (II) from aqueous solution by sirnak coal-derived char**
Batur E., Baytar O., Kutluay S., Horoz S., Sahin Ö.
ENVIRONMENTAL TECHNOLOGY, vol.42, no.3, pp.505-520, 2021 (SCI-Expanded)
50. **High volume hydrogen evolution from KBH₄ hydrolysis with palladium complex catalyst**
Kilinc D., Sahin Ö.
RENEWABLE ENERGY, vol.161, pp.257-264, 2020 (SCI-Expanded)
51. **Hydrolysis of sodium borohydride solutions both in the presence of Ni-B catalyst and in the case of microwave application**
Ekinci A., Cengiz E., Kuncan M., Sahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34749-34760, 2020 (SCI-Expanded)
52. **CeO₂ supported multimetallic nano materials as an efficient catalyst for hydrogen generation from the hydrolysis of NaBH₄**
Izgi M. S., Baytar O., Sahin Ö., Çelik Kazıcı H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34857-34866, 2020 (SCI-Expanded)
53. **Development of Novel Fe₃O₄/AC@SiO₂@1,4-DAAQ Magnetic Nanoparticles with Outstanding VOC Removal Capacity: Characterization, Optimization, Reusability, Kinetics, and Equilibrium Studies**
Ece M. S., Kutluay S., Sahin Ö., Horoz S.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.59, no.48, pp.21106-21123, 2020 (SCI-Expanded)
54. **Performance of Zn-Schiff Base complex catalyst in NaBH₄ hydrolysis reaction**
Kilinc D., Sahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34783-34792, 2020 (SCI-Expanded)
55. **Improvement of electrochemical double-layer capacitance by fast and clean oxygen plasma treatment on activated carbon as the electrode material from walnut shells**
Saka C., Baytar O., Yardım Y., Sahin Ö.
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Academic and Administrative Experience

2017 - 2021	Vice Rector	Siirt University
2009 - 2018	Dean	Siirt University, Faculty Of Engineering
2009 - 2015	Head of Department	Siirt University, Faculty Of Engineering, Chemical Engineering

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Publication: 293
Citation (WoS): 2699
Citation (Scopus): 3715
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H-Index (Scopus): 36

Research Areas

Environmental Chemistry and Technology, Inorganic Technologies, Fuels and Combustion Technology, Chemical Reaction Engineering, Catalysis and Catalytic Processes, Separation Operations