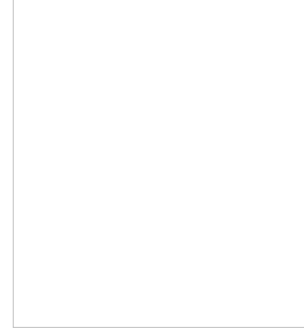




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1. Şahin Ö., Hacıyakupoğlu S., Reyhancan İ. A., Durmayaz A., Ünlü C., Şenkal B. F., Yükseköğretim Kurumları Destekli Proje, Nükleer Reaktör Teknolojisinde Tıpta ve Endüstrideki İyonizan Radyasyonları Zırhlama Amacıyla Yenilikçi Kompozit Malzemelerin Araştırılması Geliştirilmesi ve Üretimi, 2023 - Devam Ediyor
2. Şahin Ö., EKİNCİ A., Büyükanber K., Yükseköğretim Kurumları Destekli Proje, Metal katalizörler Yüklenmiş Karbon Küreciklerin Hidrotermal ve Ultrasonik Piroliz Yöntemi ile Üretimi ve Sodyum Borhidrür Yakıt Pilli Uygulamaları, 2022 - Devam Ediyor
3. Şahin Ö., Gürbüz H., KUTLUAY S., Genceli Güner F. E., Kenar M. E., Yükseköğretim Kurumları Destekli Proje, Grafit Karbon Nitrid ve SilikaJel Destek Malzemelerine Metal Katalizörlerin Yüklenmesi ve Sodyum Borhidrürün Hidrolizinde Kullanımı, 2022 - Devam Ediyor
4. Kutluay S., Şahin Ö., Haskan N., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, Grafit Karbon Nitrid ve SilikaJel Destek Malzemelerine Metal Katalizörlerin Yüklenmesi 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., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, 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., TÜBİTAK Projesi, 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., Yükseköğretim Kurumları Destekli Proje, Bioatıklardan Aktif Karbon Eldesi ve Katalizör Destek Malzemesi Olarak Kullanılması, 2018 - 2019
14. Şahin Ö., Horoz S., İkinci A., Yükseköğretim Kurumları Destekli Proje, Zn₂SnO₄ - CdZnS ve Zn₂SnO₄ - Mn: CdZnS Kuantum Noktalarının Yapısal, Optiksel ve Fotovoltaik Özelliklerinin Karşılaştırılıp İncelenmesi, 2017 - 2018
15. Şahin Ö., Yükseköğretim Kurumları Destekli Proje, Susam sapından aktif karbon eldesi ve Aspergillus niger amiloglukozidazın immobilizasyonunda kullanılması, 2017 - 2018
16. Şahin Ö., Baytar O., Horoz S., Yükseköğretim Kurumları Destekli Proje, NanoBoyutta Farklı Katalizörlerin Sentezlenmesi Ve Fotokatalitik Uygulamaları, 2016 - 2017
17. Şahin Ö., Adıgüzel V., Demirci S., TÜBİTAK Projesi, 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., Yükseköğretim Kurumları Destekli Proje, Kimyasal depolama yöntemi kullanılarak Sb₂S₃ ince filmlerin eldesi ve karakterizasyonu, 2014 - 2016
19. Balbay A., Şahin Ö., Demirtaş S., Yükseköğretim Kurumları Destekli Proje, Siirt ilinde güneş enerjili tarımsal sulamanın araştırılması, 2014 - 2016

20. Şahin Ö., Diğer Resmi Kurumlarca Desteklenen Proje, 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., Diğer Resmi Kurumlarca Desteklenen Proje, 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., Yükseköğretim Kurumları Destekli Proje, Modifiye edilmiş çeşitli katalizörler varlığında Sodyum Bor hidrürde elde edilen hidrojenin yakıt pillerinde kullanımı, 2014 - 2015
23. Saka C., Şahin Ö., Kaya M., Yükseköğretim Kurumları Destekli Proje, 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., TÜBİTAK Projesi, Lityum Metaborat Dihidratın Kristalizasyonu ve Kristalizasyonuna Etki Eden Çeşitli Parametrelerin Belirlenmesi, 2011 - 2014
26. Demir H., Şahin Ö., TÜBİTAK Projesi, Potasyum pentaborat tetrahidrat ve lityum tetraborat trihidratın üretimi ve üretim şartlarının belirlenmesi, 2008 - 2010
27. Şahin Ö., Ağırtaş M. S., TÜBİTAK Projesi, Yeni bir yöntem kullanarak yüksek döküm yoğunluklu bor oksit üretimi, 2007 - 2008
28. Şahin Ö., TÜBİTAK Projesi, Lityum ve potasyum tetraboratların üretim koşullarının belirlenmesi, 2005 - 2007

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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, cilt.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, cilt.51, ss.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, cilt.51, ss.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, cilt.51, ss.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, cilt.35, sa.1, ss.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, cilt.26, sa.3, ss.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, cilt.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, cilt.237, sa.6, ss.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, cilt.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.
Fuel, cilt.346, 2023 (SCI-Expanded)
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, cilt.48, sa.44, ss.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, cilt.29, sa.5, ss.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, cilt.14, sa.2, ss.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, cilt.59, sa.1, ss.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, cilt.30, sa.8, ss.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, cilt.25, sa.1, ss.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, cilt.25, sa.6, ss.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, cilt.103, sa.5, ss.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, cilt.58, sa.5, ss.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, cilt.95, sa.9, ss.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, cilt.45, sa.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, cilt.58, sa.3, ss.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, cilt.33, sa.20, ss.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, cilt.51, sa.5, ss.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, cilt.128, sa.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, cilt.250, ss.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, cilt.58, sa.1, ss.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., Adigüzel V., Şahin Ö., Erge H.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, cilt.44, sa.1, ss.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, cilt.24, sa.1, ss.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., Adigüze V., Şahin Ö.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, cilt.87, ss.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, cilt.47, sa.6, ss.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, cilt.32, sa.23, ss.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, cilt.57, sa.5, ss.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, cilt.45, sa.14, ss.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, cilt.237, ss.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.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.43, sa.16, ss.1933-1944, 2021 (SCI-Expanded)
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, cilt.133, sa.2, ss.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, cilt.32, sa.13, ss.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, cilt.46, sa.40, ss.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, cilt.23, sa.7, ss.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, cilt.75, sa.6, ss.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, cilt.17, sa.3, ss.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.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, cilt.57, sa.2, ss.419-425, 2021 (SCI-Expanded)
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, cilt.17, sa.2, ss.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**
Avcı Hansu T., Sahin Ö., Çağlar A., DEMİR KIVRAK H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, sa.4, ss.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, cilt.28, sa.5, ss.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, cilt.46, sa.1, ss.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., Ekinici A.

DESALINATION AND WATER TREATMENT, cilt.209, ss.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, cilt.42, sa.3, ss.505-520, 2021 (SCI-Expanded)
50. **High volume hydrogen evolution from KBH₄ hydrolysis with palladium complex catalyst**
Kilinc D., Sahin Ö.
RENEWABLE ENERGY, cilt.161, ss.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**
Ekinici A., Cengiz E., Kuncan M., Sahin Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.60, ss.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, cilt.45, sa.60, ss.34857-34866, 2020 (SCI-Expanded)
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Ece M. S., Kutluay S., Sahin Ö., Horoz S.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.59, sa.48, ss.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, cilt.45, sa.60, ss.34783-34792, 2020 (SCI-Expanded)
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BIOMASS & BIOENERGY, cilt.143, 2020 (SCI-Expanded)
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Hansu T. A., Sahin Ö., Caglar A., DEMİR KIVRAK H.
REACTION KINETICS MECHANISMS AND CATALYSIS, cilt.131, sa.2, ss.661-676, 2020 (SCI-Expanded)
57. **Hydrogen production by using Ru nanoparticle decorated with Fe₃O₄@SiO₂-NH₂ core-shell microspheres**
Izgi M. S., Ece M. S., Çelik Kazıcı H., Sahin Ö., Onat E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.55, ss.30415-30430, 2020 (SCI-Expanded)
58. **Epoxy-activated acrylic particulate polymer-supported Co-Fe-Ru-B catalyst to produce H₂ from hydrolysis of NH₃BH₃**
Izgi M. S., Sahin Ö., Onat E., Saka C.
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Demir H., Sahin Ö., Baytar O., Horoz S.
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Baytar O., Sahin Ö., Horoz S., Kutluay S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.27, sa.21, ss.26191-26210, 2020 (SCI-Expanded)
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DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, cilt.15, sa.3, ss.629-636, 2020 (SCI-Expanded)
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Çelik Kazıcı H., Salman F., Izgi M. S., Sahin Ö.
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Ekinci A., Horoz S., Sahin Ö.
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Kutluay S., Ceyhan A. A., Sahin Ö., Izgi M. S.
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Sahin Ö., Kilinc D., Horoz S.
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Keskin M. S., Ağırtaş M. S., Sahin Ö., Horoz S.
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Sahin Ö., Yardım Y., Baytar O., Saka C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.15, ss.8843-8852, 2020 (SCI-Expanded)
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Ekinci A., Sahin Ö., Horoz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.2, ss.1210-1215, 2020 (SCI-Expanded)
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Hansu T. A., Caglar A., Sahin Ö., DEMİR KIVRAK H.
MATERIALS CHEMISTRY AND PHYSICS, cilt.239, 2020 (SCI-Expanded)
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Aslan Y., Sharif Y. M., Sahin Ö.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.142, ss.222-231, 2020 (SCI-Expanded)
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Kilinc D., Sahin Ö.
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Izgi M. S., Baytar O., Sahin Ö., Horoz S.
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75. **gamma-Al2O3 supported/Co-Cr-B catalyst for hydrogen evolution via NH3BH3 hydrolysis**

Izgi M. S., Sahin Ö., Saka C.

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76. **Metal-Schiff Base complex catalyst in KBH₄ hydrolysis reaction for hydrogen production**

Kilinc D., Sahin Ö.

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78. **Al₂O₃ SUPPORTED Co-Cu-B (Co-Cu-B/Al₂O₃) CATALYST FOR HYDROGEN GENERATION BY HYDROLYSIS OF AQUEOUS SODIUM BOROHYDRIDE (NaBH₄) SOLUTIONS**

Baytar O., Izgi M. S., Horoz S., Sahin Ö., Nar S.

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79. **Effective TiO₂ supported Cu-Complex catalyst in NaBH₄ hydrolysis reaction to hydrogen generation**

Kilinc D., Sahin Ö.

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Kilinc D., Sahin Ö., Horoz S.

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Kutluay S., Baytar O., Sahin Ö.

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Kilinc D., Sahin Ö., Horoz S.

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Bulut N., Baytar O., Sahin Ö., Horoz S.

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Kilinc D., Sahin Ö., Horoz S.

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Sahin Ö., Horoz S.

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CURRENT DENSITY (J) - VOLTAGE (V) MEASUREMENTS

Nar S., Sahin Ö., Horoz S.

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Gunbat M., Horoz S., Sahin Ö., Ekinici A.

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Baytar O., Sahin Ö., Saka C.

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Kilinc D., Sahin Ö.

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Horoz S., Ekinici A., Sahin Ö.

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Horoz S., Ekinici A., Sahin Ö.

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Baytar O., Sahin Ö., Kilicvuran H., Horoz S.

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Ekinici A., Sahin Ö., Horoz S.

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ANALYTICAL LETTERS, cilt.51, sa.14, ss.2205-2220, 2018 (SCI-Expanded)

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Kilinc D., Sahin Ö., Horoz S.
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INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, cilt.16, sa.2, 2018 (SCI-Expanded)
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.29, sa.2, ss.1004-1010, 2018 (SCI-Expanded)
107. **Preparation and Characterization of Activated Carbon from Sesame Seed Shells by Microwave and Conventional Heating with Zinc Chloride Activation**
Sharif Y. M., Saka C., Baytar O., Sahin Ö.
ANALYTICAL LETTERS, cilt.51, sa.17, ss.2731-2744, 2018 (SCI-Expanded)
108. **Preparation and Characterization of Small Pore Carbon Molecular Sieves by Chemical Vapor Deposition of Pistachio Shells**
Sahin Ö., Kaya M., Saka C.
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Horoz S., Sahin Ö.
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Horoz S., Sahin Ö.
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Horoz S., AKYOL M., EKİCİBİL A., Sahin Ö.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.28, sa.23, ss.18193-18199, 2017 (SCI-Expanded)
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.32, ss.20625-20637, 2017 (SCI-Expanded)
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Horoz S., Sahin Ö.
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Sahin Ö., Ekinci A., Balbay A., Saka C.
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118. **Effect of acid addition on hydrogen production from potassium borohydride hydrolysis**
Balbay A., Sahin Ö., Saka C.
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Sahin Ö., Kilinc D., Saka C.
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Demirci S., Adiguzel V., Sahin Ö.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, cilt.61, sa.7, ss.2292-2298, 2016 (SCI-Expanded)
122. **Hydrogen generation from hydrolysis of sodium borohydride with a novel palladium metal complex catalyst**
Sahin Ö., Kilinc D., Saka C.
JOURNAL OF THE ENERGY INSTITUTE, cilt.89, sa.2, ss.182-189, 2016 (SCI-Expanded)
123. **Influence of plasma treatment on Ce-0.05-Ni-W-B catalyst for hydrogen production by hydrolysis of NaBH₄**
Saka C., Ekinci A., Sahin Ö., Balbay A.
JOURNAL OF THE ENERGY INSTITUTE, cilt.89, sa.2, ss.190-198, 2016 (SCI-Expanded)
124. **Hydrogen Production by Hydrolysis of NaBH₄ with Cr-Ni-W-B Catalyst: Effects of Cold Plasma and Chromium Content**
Sahin Ö., Saka C., Ekinci A., Balbay A.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, cilt.14, sa.1, ss.351-359, 2016 (SCI-Expanded)
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Ozdemir M., Durmus O., Sahin Ö., Saka C.
DESALINATION AND WATER TREATMENT, cilt.57, sa.38, ss.18038-18048, 2016 (SCI-Expanded)
126. **Hydrogen production from NaBH₄ using Co-Cu-B catalysts prepared in methanol: Effect of plasma treatment**
Izgi M. S., Sahin Ö., Saka C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.3, ss.1600-1608, 2016 (SCI-Expanded)
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Sahin Ö., Izgi M. S., Onat E., Saka C.

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Saka C., Sahin Ö., Kutluay S.
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Sahin Ö., Saka C., Ceyhan A. A., Baytar O.
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Sahin Ö., Kaya M., Saka C.
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Sahin Ö., Kilinc D., Saka C.
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Sahin Ö., Saka C., Ceyhan A. A., Baytar O.
SEPARATION SCIENCE AND TECHNOLOGY, cilt.50, sa.6, ss.886-891, 2015 (SCI-Expanded)
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Sahin Ö., Kaya M., Izgi M. S., Saka C.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.37, sa.5, ss.462-467, 2015 (SCI-Expanded)
134. **Hydrogen Generation from Sodium Borohydride Hydrolysis with a Cu-Co-Based Catalyst: A Kinetic Study**
Saka C., Sahin Ö., Demir H., Karabulut A., Sarikaya A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.37, sa.9, ss.956-964, 2015 (SCI-Expanded)
135. **Determination of Nucleation Kinetics of Ammonium Biborate Tetrahydrate**
Sahin Ö., Ozdemir M., Izgi M. S., Demir H., Ceyhan A. A.
REVISTA DE CHIMIE, cilt.65, sa.12, ss.1462-1466, 2014 (SCI-Expanded)
136. **Preparation and characterization of activated carbon from pine cone by microwave-induced ZnCl₂ activation and its effects on the adsorption of methylene blue**
Ozhan A., Sahin Ö., Kucuk M. M., Saka C.
CELLULOSE, cilt.21, sa.4, ss.2457-2467, 2014 (SCI-Expanded)
137. **Hydrogen Production from Sodium Borohydride in Boric Acid-water Mixtures**
Balbay A., Sahin Ö.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.36, sa.11, ss.1166-1174, 2014 (SCI-Expanded)
138. **Effects of different temperatures and additives on the metastable zone width precipitation kinetics of NaBO₂**
Kaya M., Ceyhan A. A., Sahin Ö.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, cilt.88, sa.3, ss.402-408, 2014 (SCI-Expanded)
139. **Hydrogen Generation from Hydrolysis of Sodium Borohydride with Ni(0) Catalyst in Dielectric Barrier Discharge Method**
Sahin Ö., Baytar O., Hansu F., Saka C.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.36, sa.17, ss.1886-1894, 2014 (SCI-Expanded)

140. **Hydrogen Generation from NaBH₄ Solution with the High-performance Co(0) Catalyst Using a Cold Plasma Method**
Sahin Ö., Hansu F., Saka C., Baytar O.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.36, sa.14, ss.1578-1587, 2014 (SCI-Expanded)
141. **Surface and porous characterization of activated carbon prepared from pyrolysis of biomass by two-stage procedure at low activation temperature and it's the adsorption of iodine**
Ceyhan A. A., Sahin Ö., Baytar O., Saka C.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, cilt.104, ss.378-383, 2013 (SCI-Expanded)
142. **A novel thermal process for activated carbon production from the vetch biomass with air at low temperature by two-stage procedure**
Ceyhan A. A., Sahin Ö., Saka C., Yalcin A.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, cilt.104, ss.170-175, 2013 (SCI-Expanded)
143. **The effects of plasma treatment on electrochemical activity of Co-W-B catalyst for hydrogen production by hydrolysis of NaBH₄**
Ekinci A., Sahin Ö., Saka C., Avci T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.38, sa.35, ss.15295-15301, 2013 (SCI-Expanded)
144. **Influence of plasma treatment on electrochemical activity of Ni (o)-based catalyst for hydrogen production by hydrolysis of NaBH₄**
Sahin Ö., Saka C., Baytar O., Hansu F.
JOURNAL OF POWER SOURCES, cilt.240, ss.729-735, 2013 (SCI-Expanded)
145. **Cold plasma and microwave radiation applications on almond shell surface and its effects on the adsorption of Eriochrome Black T**
Sahin Ö., Saka C., Kutluay S.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, cilt.19, sa.5, ss.1617-1623, 2013 (SCI-Expanded)
146. **Preparation and characterization of activated carbon from acorn shell by physical activation with H₂O-CO₂ in two-step pretreatment**
Sahin Ö., Saka C.
BIORESOURCE TECHNOLOGY, cilt.136, ss.163-168, 2013 (SCI-Expanded)
147. **Determination of Serotonin-Norepinephrine Reuptake Inhibitor Antidepressants in Pharmaceuticals and Biological Material**
Saka C., Sahin Ö.
CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, cilt.43, sa.1, ss.2-34, 2013 (SCI-Expanded)
148. **Drying of pistachios by using a microwave assisted dryer**
Balbay A., Sahin Ö.
ACTA SCIENTIARUM-TECHNOLOGY, cilt.35, sa.2, ss.263-269, 2013 (SCI-Expanded)
149. **MODELING OF CONVECTIVE DRYING KINETICS OF PISTACHIO KERNELS IN A FIXED BED DRYING SYSTEM**
BALBAY A., ŞAHİN Ö., Ulker H.
THERMAL SCIENCE, cilt.17, sa.3, ss.839-846, 2013 (SCI-Expanded)
150. **Hydrogen generation from catalytic hydrolysis of sodium borohydride by a novel Co(II)-Cu(II) based complex catalyst**
Kilinc D., Saka C., Sahin Ö.
JOURNAL OF POWER SOURCES, cilt.217, ss.256-261, 2012 (SCI-Expanded)
151. **Drying of black cumin (Nigella sativa) in a microwave assisted drying system and modeling using extreme learning machine**
Balbay A., Kaya Y., Sahin Ö.
ENERGY, cilt.44, sa.1, ss.352-357, 2012 (SCI-Expanded)
152. **Applications on agricultural and forest waste adsorbents for the removal of lead (II) from**

contaminated waters

Saka C., Sahin Ö., Kucuk M. M.

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, cilt.9, sa.2, ss.379-394, 2012 (SCI-Expanded)

153. **Removal of Methylene Blue from Aqueous Solutions by using Cold Plasma, Microwave Radiation and Formaldehyde Treated Acorn Shell**

Saka C., Sahin Ö., Adsoy H., Akyel S. M.

SEPARATION SCIENCE AND TECHNOLOGY, cilt.47, sa.10, ss.1542-1551, 2012 (SCI-Expanded)

154. **Biohydrogen Production from Waste Substrates as a Clean Energy**

Kahyaoglu M., Sahin Ö., Saka C.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.34, sa.12, ss.1084-1103, 2012 (SCI-Expanded)

155. **Microwave Drying Kinetics of a Thin-Layer Liquorice Root**

Balbay A., Sahin Ö.

DRYING TECHNOLOGY, cilt.30, sa.8, ss.859-864, 2012 (SCI-Expanded)

156. **Modeling of Drying Process of Bittim Nuts (*pistacia terebinthus*) in a Fixed Bed Dryer System by Using Extreme Learning Machine**

Balbay A., Avci E., Sahin Ö., Coteli R.

INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.8, sa.4, 2012 (SCI-Expanded)

157. **The Removal of Methylene Blue from Aqueous Solutions by Using Microwave Heating and Pre-boiling Treated Onion Skins as a New Adsorbent**

Saka C., Sahin Ö., Celik M. S.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.34, sa.17, ss.1577-1590, 2012 (SCI-Expanded)

158. **Preparation and characterization of activated carbon from cotton stalks in a two-stage process**

Ozdemir M., Bolgaz T., Saka C., Sahin Ö.

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, cilt.92, sa.1, ss.171-175, 2011 (SCI-Expanded)

159. **A new method on producing high surface area activated carbon: The effect of salt on the surface area and the pore size distribution of activated carbon prepared from pistachio shell**

Dolas H., ŞAHİN Ö., SAKA C., DEMİR H.

CHEMICAL ENGINEERING JOURNAL, cilt.166, sa.1, ss.191-197, 2011 (SCI-Expanded)

160. **Removal of Lead(II) from Aqueous Solutions using Pre-boiled and Formaldehyde-Treated Onion Skins as a New Adsorbent**

Saka C., Sahin Ö., Demir H., Kahyaoglu M.

SEPARATION SCIENCE AND TECHNOLOGY, cilt.46, sa.3, ss.507-517, 2011 (SCI-Expanded)

161. **An Investigation of Drying Process of Shelled Pistachios in a Newly Designed Fixed Bed Dryer System by Using Artificial Neural Network**

Balbay A., Sahin Ö., Karabatak M.

DRYING TECHNOLOGY, cilt.29, sa.14, ss.1685-1696, 2011 (SCI-Expanded)

162. **Removal of methylene blue from aqueous solutions by using cold plasma- and formaldehyde-treated onion skins**

Saka C., Sahin Ö.

COLORATION TECHNOLOGY, cilt.127, sa.4, ss.246-255, 2011 (SCI-Expanded)

163. **Hydrogen production from sodium borohydride for fuel cells in presence of electrical field**

Sahin Ö., Dolas H., Kayal M., Lzgi M. S., DEMİR H.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.34, sa.7, ss.557-567, 2010 (SCI-Expanded)

164. **The effect of various factors on the hydrogen generation by hydrolysis reaction of potassium borohydride**

Sahin Ö., Dolas H., Oezdemir M.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.32, sa.13, ss.2330-2336, 2007 (SCI-Expanded)

165. **Determination of nucleation kinetics of potassium tetraborate tetrahydrate**

- Sahin Ö., Dolas H., Demir H.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.42, sa.8, ss.766-772, 2007 (SCI-Expanded)
166. **Kinetic analysis of thermal decomposition of some Co-complexes of three unsymmetrical vic-dioximes ligands**
Sahin Ö., Tas E., Dolas H.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.89, sa.1, ss.123-131, 2007 (SCI-Expanded)
167. **Crystallization kinetics of the borax decahydrate**
Ceyhan A. A., Sahin Ö., Bulutcu A. N.
JOURNAL OF CRYSTAL GROWTH, cilt.300, sa.2, ss.440-447, 2007 (SCI-Expanded)
168. **Production of granular boron oxide by calcination of ammonium tetraborate tetrahydrate**
Demir H., Sahin Ö., Izgi M. S., Firatoglu H.
THERMOCHIMICA ACTA, cilt.445, sa.1, ss.1-6, 2006 (SCI-Expanded)
169. **Thermal decomposition of potassium tetraborate tetrahydrate to anhydrous potassium tetraborate in a fluidized bed**
Sahin Ö., Cennetkusu E., Dolas H., Ozdemir M.
THERMOCHIMICA ACTA, cilt.440, sa.1, ss.7-12, 2006 (SCI-Expanded)
170. **Synthesis, spectroscopic and electrochemical studies of bis(N-aryl-3,5-di-t-butyl-salicylaldiminato)cobalt(II) complexes**
Kasumov V., Ozdemir M., Tas E., Sahin Ö.
TRANSITION METAL CHEMISTRY, cilt.30, sa.2, ss.191-195, 2005 (SCI-Expanded)
171. **A new method for producing anhydrous puffed borax**
Sahin Ö., Genli N., Ozdemir M.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, cilt.44, sa.1, ss.1-6, 2005 (SCI-Expanded)
172. **Removal of Pb(II) from aqueous solution by antep pistachio shells**
Sahin Ö., Demirel S., Dilekoglu M.
FRESENIUS ENVIRONMENTAL BULLETIN, cilt.14, sa.11, ss.986-992, 2005 (SCI-Expanded)
173. **Determination of kinetic parameters of crystal growth rate of borax in aqueous solution by using the rotating disc technique**
Sahin Ö., Aslan F., Ozdemir M., Durgun M.
JOURNAL OF CRYSTAL GROWTH, cilt.270, sa.3-4, ss.604-614, 2004 (SCI-Expanded)
174. **Growth of boric acid in aqueous solution by using the rotating disc technique**
Sahin Ö., Aslan F.
JOURNAL OF CRYSTAL GROWTH, cilt.268, sa.1-2, ss.249-257, 2004 (SCI-Expanded)
175. **Removal of Pb(II) ions from water by sunflower seed peel**
Ozdemir M., Sahin Ö., Guler E.
FRESENIUS ENVIRONMENTAL BULLETIN, cilt.13, sa.6, ss.524-531, 2004 (SCI-Expanded)
176. **Effect of impurities on crystal growth rate of ammonium pentaborate**
Sahin Ö., Ozdemir M., Genli N.
JOURNAL OF CRYSTAL GROWTH, cilt.260, sa.1-2, ss.223-231, 2004 (SCI-Expanded)
177. **The role of transport processes in crystallization kinetics of ammonium pentaborate**
Sahin Ö., Genli N., Ozdemir M.
JOURNAL OF CRYSTAL GROWTH, cilt.253, sa.1-4, ss.488-495, 2003 (SCI-Expanded)
178. **The effect of surface potential on the growth and dissolution rate dispersion of boric acid**
Sahin Ö., Bulutcu A.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.38, sa.1, ss.56-62, 2003 (SCI-Expanded)
179. **Effect of electrical field on dendritic growth of boric acid**
Sahin Ö., Bulutcu A.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.38, sa.1, ss.47-55, 2003 (SCI-Expanded)
180. **Evaluation of thermal decomposition kinetics of borax pentahydrate using genetic algorithm method by isothermal analysis**
Sahin Ö., Bulutcu A.

- TURKISH JOURNAL OF CHEMISTRY, cilt.27, sa.2, ss.197-207, 2003 (SCI-Expanded)
181. **Effect of surface charge distribution on the crystal growth of sodium perborate tetrahydrate**
Sahin Ö., Bulutcu A.
JOURNAL OF CRYSTAL GROWTH, cilt.241, sa.4, ss.471-480, 2002 (SCI-Expanded)
182. **Transition metal complexes with tridentate salicylaldimine derived from 3,5-di-t-butylsalicylaldehyde**
Tas E., Kasumov V., Sahin Ö., Ozdemir M.
TRANSITION METAL CHEMISTRY, cilt.27, sa.4, ss.442-446, 2002 (SCI-Expanded)
183. **Effect of borax on the crystallization kinetics of boric acid**
Sahin Ö.
JOURNAL OF CRYSTAL GROWTH, cilt.236, sa.1-3, ss.393-399, 2002 (SCI-Expanded)
184. **Production of high bulk density anhydrous borax in fluidized bed granulator**
Sahin Ö., Bulutcu A.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, cilt.41, sa.2, ss.135-141, 2002 (SCI-Expanded)
185. **Effect of electrical field and temperature on the crystal growth rates of boric acid**
Sahin Ö.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.37, sa.2-3, ss.183-192, 2002 (SCI-Expanded)
186. **Dehydration behaviour of borax pentahydrate to anhydrous borax by multi-stage heating in a fluidized**
Sahin Ö., Bulutcu A.
TURKISH JOURNAL OF CHEMISTRY, cilt.26, sa.1, ss.89-96, 2002 (SCI-Expanded)
187. **Surface potential dominating crystal growth rates of K₂SO₄**
Sahin Ö., Bulutcu A.
JOURNAL OF CRYSTAL GROWTH, cilt.231, sa.4, ss.525-533, 2001 (SCI-Expanded)
188. **Calcination kinetics of ammonium pentaborate using the Coats-Redfern and genetic algorithm method by thermal analysis**
Sahin Ö., Ozdemir M., Aslanoglu M., Beker U.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.40, sa.6, ss.1465-1470, 2001 (SCI-Expanded)
189. **Determination of growth and dissolution mass rate of boric acid crystals by a simple computer program**
Sahin Ö., Ozdemir M., Kendirci H., Bulutcu A.
JOURNAL OF CRYSTAL GROWTH, cilt.219, ss.75-82, 2000 (SCI-Expanded)
190. **Application of genetic algorithm for determination of mass transfer coefficients**
Sahin Ö., Sayan P., Bulutcu A.
JOURNAL OF CRYSTAL GROWTH, cilt.216, ss.475-482, 2000 (SCI-Expanded)
191. **Dehydration kinetics of sodium perborate tetrahydrate to monohydrate in a fluidized-bed drier**
Sahin Ö., Bulutcu A.
CHEMICAL ENGINEERING SCIENCE, cilt.54, sa.1, ss.115-120, 1999 (SCI-Expanded)

Diğer Dergilerde Yayımlanan Makaleler

1. **Effect of microwave irradiation on PEMFCs anode and cathode catalysts**
Şahin Ö., Yılmaz A., Ekin A.
Journal of the Australian Ceramic Society, cilt.59, sa.4, ss.895-904, 2023 (Scopus)
2. **Aktif karbon destekli ucuz ve kullanışlı katalizörün amonyak bor hidrolizinde incelenmesi**
Beştaş H., ONAT E., ŞAHİN Ö., Demirci S., BAYTAR O., İZGİ M. S.
BOR DERGİSİ, cilt.8, sa.2, ss.59-65, 2023 (Scopus)
3. **Synthesis and Characterization of Activated Carbon from Waste Biomass (Tobacco Stalk) by Microwave Assisted Impregnation Method**

YILDIZ H., GÜLŞEN H., ŞAHİN Ö., BAYTAR O., KUTLUAY S.

Harran University Journal of Engineering, cilt.7, sa.1, ss.1-14, 2022 (Hakemli Dergi)

4. **The characterization and sodium borohydride electrooxidation of novel carbon nanotube supported copromoted Pd as anode catalyst for fuel cell**
Caglar A., Hansu T. A., Sahin Ö., DEMİR KIVRAK H.
ENERGY STORAGE, cilt.4, sa.2, 2022 (ESCI)
5. **SODYUM BOR HİDRÜRÜN HİDROLİZİNDE KARBON NANOTÜP DESTEKLİ Co-Cr-B KATALİZÖRÜN KULLANILMASI**
Şahin Ö., Baytar O., Demir H.
Konya mühendislik bilimleri dergisi (Online), cilt.9, ss.29-41, 2021 (Hakemli Dergi)
6. **Derik Halhalı Zeytin Çekirdeğinden Çevre Dostu Selülozik Manyetik Nano-Adsorbent Üretimi ve Benzen Gideriminde Kullanılması**
KUTLUAY S., ECE M. Ş., ŞAHİN Ö., KAHRAMAN Z., ÖNAL F., ATKU F.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.10, sa.4, ss.1535-1550, 2021 (Hakemli Dergi)
7. **Structure of ruthenium nanocatalysts of bismuth, investigation of its effect on hydrolysis performance and kinetic studies**
Avcı Hansu T., Caglar A., DEMİR KIVRAK H., Sahin Ö.
ENERGY STORAGE, cilt.3, sa.6, 2021 (ESCI)
8. **As a highly efficient reduced graphene oxide-supported ternary catalysts for the fast hydrogen release from NaBH₄**
ŞAHİN Ö., Bozkurt A., YAYLA M., ÇELİK KAZICI H., İZGİ M. S.
Graphene Technology, cilt.5, ss.103-111, 2020 (Hakemli Dergi)
9. **Civa II Klorürün Sıçan Beyin Dokusunda Oluşturduğu Toksisiteye Karşı Borik Asidin Koruyucu Etkisinin İncelenmesi**
AKKOYUN H. T., BENGÜ A. Ş., BAYRAMOĞLU AKKOYUN M., ULUCAN A., İZGİ M. S., ŞAHİN Ö., EKİN S., MELEK Ş.
Türk Doğa ve Fen Dergisi, cilt.9, sa.2, ss.127-133, 2020 (Hakemli Dergi)
10. **Synthesis of magnetic Fe₃O₄/AC nanoparticles and its application for the removal of gas-phase toluene by adsorption process**
Kutluay S., Ece M. Ş., Şahin Ö.
International Journal of Chemistry and Technology (IJCT), cilt.4, sa.2, ss.146-155, 2020 (Hakemli Dergi)
11. **Borik Asit ve Boraks Pentahidrat Kristalleri için Kekleşmenin İncelenmesi**
KUTLUAY S., İZGİ M. S., ŞAHİN Ö., CEYHAN A. A.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.9, sa.3, ss.985-996, 2020 (Hakemli Dergi)
12. **Amonyum Floroborat Üretimi ve Üretim Parametrelerinin Belirlenmesi**
CEYHAN A. A., Bağcı S., BAYTAR O., ŞAHİN Ö.
Bor Dergisi, cilt.5, sa.2, ss.63-72, 2020 (Hakemli Dergi)
13. **Potasyum Borhidrit Hidroliz Reaksiyonu İçin Ni-B-P Katalizörünün Kinetik Özellikleri**
KESKİN M. S., AĞIRTAŞ M. S., BAYTAR O., ŞAHİN Ö.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.9, sa.2, ss.599-608, 2020 (Hakemli Dergi)
14. **Carbon nanotube supported direct borohydride fuel cell anodecatalysts: the effect of catalyst loading**
DEMİR KIVRAK H., CAGLAR A., Hansu T. A., ŞAHİN Ö.
Manas Journal of Engineering, cilt.8, sa.1, ss.1-10, 2020 (Hakemli Dergi)
15. **OPTIMIZATION OF PROCESS CONDITIONS FOR ADSORPTION OF METHYLENE BLUE ON FORMALDEHYDE-MODIFIED PEANUT SHELLS USING BOX-BEHNKEN EXPERIMENTAL DESIGN AND RESPONSE SURFACE METHODOLOGY**
KUTLUAY S., BAYTAR O., ŞAHİN Ö., ARRAN A.
European Journal of Technique, cilt.10, sa.1, ss.131-142, 2020 (Hakemli Dergi)
16. **HYDROGEN GENERATION BY HYDROLYSIS OF NaBH₄ WITH EFFICIENT Co-La-W-B CATALYST FOR PEM FUEL CELLS**
Ekinci A., Horoz S., Baytar O., Sahin Ö.

JOURNAL OF OPTOELECTRONIC AND BIOMEDICAL MATERIALS, cilt.12, sa.2, ss.25-32, 2020 (ESCI)

17. **Etkili Aktif Karbon Destekli CdS Fotokatalizörlerin Fotokatalitik Uygulamaları**
İZGİ M. S., Zörer C., BAYTAR O., HOROZ S., ŞAHİN Ö.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020 (Hakemli Dergi)
18. **A COMPARATIVE STUDY FOR SODIUM BOROHYDRIDE DEHYDROGENATION AND ELECTROOXIDATION ON CERIUM AND COBALT CATALYSTS**
Hansu T. A., Caglar A., Sahin Ö., Kivrak H.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, cilt.10, sa.2, ss.389-400, 2020 (ESCI)
19. **Co-La-B Katalizörünün Sentezlenmesi ve Yakıt Piliinde Kullanılması**
HOROZ S., EKİNCİ A., ŞAHİN Ö.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020 (Hakemli Dergi)
20. **Adsorption kinetics, equilibrium and thermodynamics of gas-phase toluene onto char produced from almond shells**
KUTLUAY S., BAYTAR O., ŞAHİN Ö.
Research on Engineering Structures and Materials, cilt.5, sa.3, ss.279-298, 2019 (Scopus)
21. **SYNTHESIS OF Mo-DOPED ZnS NANOPARTICLES AND INVESTIGATION OF THEIR STRUCTURAL, OPTICAL AND PHOTOVOLTAIC PROPERTIES**
Gunbat M., Horoz S., Sahin Ö., Ekinci A.
JOURNAL OF NON-OXIDE GLASSES, cilt.10, sa.4, ss.91-96, 2018 (ESCI)
22. **EFFECT OF Mo DOPING ON THE PHOTOVOLTAIC PROPERTIES OF Mo DOPED Cd_{1-x}Zn_xS (x= 3 %)**
QUANTUM DOTS SYNTHESIZED BY SILAR
Ekinci A., Sahin Ö., Horoz S.
JOURNAL OF NON-OXIDE GLASSES, cilt.10, sa.3, ss.71-76, 2018 (ESCI)
23. **La katkılı ZnS kuantum noktalarının SILAR yöntemi ile sentezlenmesi ve onların özelliklerinin incelenmesi**
EKİNCİ A., Günbat M., HOROZ S., ŞAHİN Ö.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.20, ss.246-254, 2018 (Hakemli Dergi)
24. **The investigation of the synthesis parameters of barium metaborate**
CEYHAN A. A., Koçak F. Z., ŞAHİN Ö.
Journal of Boron, cilt.3, sa.1, ss.33-41, 2018 (Hakemli Dergi)
25. **Lityum Metaborat Dihidratın Difüzyon Katsayısının Belirlenmesi**
İZGİ M. S., ŞAHİN Ö., AVCI HANSU T.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, sa.2, 2018 (Hakemli Dergi)
26. **Determination of Optimum Zn content in Cd_{1-x}Zn_xS Nanoparticles**
HOROZ S., EKİNCİ A., ŞAHİN Ö.
Electronics Science Technology and Application, cilt.5, sa.1, ss.1-8, 2018 (Hakemli Dergi)
27. **Effect of Co-B Catalyst Synthesized in Methanol on the Hydrolysis of Sodium Borohydride**
İZGİ M. S., ŞAHİN Ö., ONAT E., HOROZ S.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.7, ss.151-160, 2017 (Hakemli Dergi)
28. **CHARACTERIZATION OF Ni Doped CdZnS NANOPARTICLES AND THEIR USE IN METHYLENE BLUE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**
Kılıçvuran H., ŞAHİN Ö., BAYTAR O., HOROZ S.
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES RESEARCH TECHNOLOGY, cilt.6, ss.500-511, 2017 (Hakemli Dergi)
29. **CHARACTERIZATION OF Ni Doped CdZnS NANOPARTICLES AND THEIR USE IN METHYLENE BLUE DEGRADATION UNDER VISIBLE LIGHT IRRADIATION**
Kılıçvuran h., ŞAHİN Ö., BAYTAR O., HOROZ S.
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES RESEARCH TECHNOLOGY, cilt.6, sa.11, ss.500-511, 2017 (Hakemli Dergi)
30. **A Separating Method For NaH₂ PO₂ and NaCl Salts From Their Solutions Using Solid-Liquid Phase Equilibria**

ADIGÜZEL V., DEMİRCİ S., ŞAHİN Ö.

Journal of the Institute of Science and Technology, cilt.7, sa.3, ss.137-142, 2017 (Hakemli Dergi)

31. **Characterization and Photovoltaic Studies of Capped ZnS, CdS, and Cd_{1-x}Zn_xS (x=0.25) Nanoparticles**

HOROZ S., İZGİ M. S., ŞAHİN Ö.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.6, sa.1, ss.61, 2017 (Hakemli Dergi)

32. **Characterization and Photovoltaic Studies of Capped ZnS, CdS and Cd_{1-x}Zn_xS (x=0.025) Nanoparticles**

HOROZ S., İZGİ M. S., ŞAHİN Ö.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.6, ss.61-68, 2017 (Hakemli Dergi)

33. **Investigation of Structural, Optical and Photovoltaic Properties of Sb₂S₃ Thin Films**

HOROZ S., KOÇ H., ŞAHİN Ö.

Cumhuriyet Science Journal, cilt.38, sa.3, ss.588-593, 2017 (Hakemli Dergi)

34. **An Experimental Study on Drying of Pistacia Terebinthus in a Fixed Bed Dryer**

Balbay A., Ulker H., Sahin Ö.

FDMP-FLUID DYNAMICS & MATERIALS PROCESSING, cilt.9, sa.1, ss.1-10, 2013 (ESCI)

Kitap & Kitap Bölümleri

1. **MANYETİK Fe₃O₄/PERLİT@SiO₂ NANOADSORBENTİ VARLIĞINDA TOLUENİN GAZ ADSORPSİYON PROSESİNİN DENEYSEL TASARIMI**

ECE M. Ş., KUTLUAY S., ŞAHİN Ö.

KİMYA ARAŞTIRMALARI-1, , Editör, IKSAD INTERNATIONAL PUBLISHING HOUSE, ss.31-41, 2020

2. **SİLİKA-KAPLI MANYETİT/AKTİF KARBON MANYETİK NANOPARÇACIKLAR (MNP) KULLANILARAK TOLUENİN GAZ ADSORPSİYON PROSESİNİN OPTİMİZASYONU**

ECE M. Ş., KUTLUAY S., ŞAHİN Ö.

NANOMALZEME SENTEZİ VE GÜNCEL KULLANIM ALANLARI, , Editör, IKSAD INTERNATIONAL PUBLISHING HOUSE, ss.31-45, 2020

3. **AKTİF KARBON İLE İŞLEVSELLEŞTİRİLMİŞ MANYETİT MANYETİK NANOPARÇACIKLARIN SENTEZLENMESİ VE BENZEN BUHARININ GİDERİMİ İÇİN UYGULANMASI**

KUTLUAY S., ECE M. Ş., ŞAHİN Ö.

NANOMALZEME SENTEZİ VE GÜNCEL KULLANIM ALANLARI, , Editör, IKSAD INTERNATIONAL PUBLISHING HOUSE, ss.71-86, 2020

4. **Solid Oxides**

HOROZ S., ŞAHİN Ö.

Comprehensive Energy Systems, Ibrahim Dincer, Editör, Elsevier, ss.593-628, 2018

5. **Material Recycling**

ŞAHİN Ö., KIRIM Y.

Comprehensive Energy Systems, Ibrahim Dincer, Editör, Elsevier, ss.1018-1042, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. **Hydrogen production via TiO₂ base Fe(II) Schiff Base complex**

KILINÇ D., ŞAHİN Ö.

2nd International conference on application in chemistry and chemical engineering (ICACCHE 2018), Belgrade, Sırbistan, 10 - 14 Ekim 2018

2. **EFFECT OF MICROWAVE IRRADIATED Ni-B-P CATALYST ON THE HYDROLYSIS OF POTASSIUM BOROHYDRIDE**

Keskin M. S., AĞIRTAŞ M. S., ŞAHİN Ö., İZGİ M. S.

International Conference on Applications in Chemistry and Chemical Engineering, Belgrade, Sırbistan, 10 - 14 Ekim 2018

3. **Investigation of the Effect of Synthesis Temperature on the Band Energy of CdS Nanoparticles**
HOROZ S., ŞAHİN Ö., EKİNCİ A.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), 10 - 14 Ekim 2018
4. **Hydrogen Production from Hydrolysis of Sodium Borohydride In The Presence Of Ni-B-Ag Catalyst**
İZGİ M. S., ŞAHİN Ö.
International Conference on Applications in Chemistry and Chemical Engineering, Belgrade, Sırbistan, 10 - 14 Ekim 2018
5. **The Synthesis the Active Carbon from the Beech Wood and Investigation of Its Effect on the Cr (VI) Adsorption by Surface Response Method**
BAYTAR O., ŞAHİN Ö., CEYHAN A. A.
2. INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), Belgrade, Sırbistan, 10 - 14 Ekim 2018
6. **Investigation of Adsorption Kinetics, Equilibrium and Thermodynamics of Toluene Vapor onto Formaldehyde-Treated Walnut Shells**
BAYTAR O., ŞAHİN Ö., KUTLUAY S.
2. INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), Belgrade, Sırbistan, 10 - 14 Ekim 2018
7. **Sentezleme Sıcaklığının CdS Nanopartiküllerin Bant Enerjisine Etkisinin İncelenmesi**
HOROZ S., EKİNCİ A., ŞAHİN Ö.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), 10 - 14 Ekim 2018
8. **PbS ve Fe Katkılı PbS İnce Filmlerin Özelliklerinin Karşılaştırılması**
EKİNCİ A., HOROZ S., ŞAHİN Ö.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), 10 - 14 Ekim 2018
9. **Krom (Cr) Katkılı CdZnS Nanoparçacıkların Sentezi ve Karakterizasyonu**
EKİNCİ A., HOROZ S., ŞAHİN Ö.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), 10 - 14 Ekim 2018
10. **Effect of CeO₂ Supported La-Ni-Mo-B on Potassium Borohydride Hydrolysis**
KESKİN M. S., AĞIRTAŞ M. S., İZGİ M. S., ŞAHİN Ö., BAYTAR O.
Bozok Science Workshop, Türkiye, 8 - 10 Ağustos 2018
11. **Investigation of Linear Growth Rates of Potassium Pentaborate tetrahydrate in Stationary Medium of Single Crystal System**
DEMİR H., ŞAHİN Ö., KAYA M.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), 10 - 14 Ekim 2018
12. **Synthesis of Un-Doped PbS and La-Doped PbS Thin Films and Their Characterization**
EKİNCİ A., ŞAHİN Ö., HOROZ S.
INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE, 26 - 29 Nisan 2018
13. **The Use of Carbon Nanotube-Supported Co-Cu-B Catalyst in the Hydrolysis of Sodium Borohydride**
BAYTAR O., ŞAHİN Ö., GÜRSOY M.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING, Belgrade, Sırbistan, 10 - 14 Ekim 2018
14. **The Synthesis The Active Carbon from the Beech Wood and Investigation of its Effect on the Cr (VI) Adsorption by Surface Response Method**
BAYTAR O., ŞAHİN Ö., CEYHAN A. A.
INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE),

Belgrade, Sırbistan, 10 - 14 Ekim 2018

15. **Mn KATKILI Zn₂SnO₄ NANOPARTİKÜLLERİN HİDROTHERMAL TEKNİĞİ İLESENTEZLENMESİ ve KARAKTERİZASYONU**
Bulut N., ŞAHİN Ö., HOROZ S.
AHTAMARA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 25 - 26 Ağustos 2018
16. **KİMYASAL ÇÖKTÜRME YÖNTEMİ İLE SENTEZLENEN W-KATKILI CDZNSNANOPARÇACIKLARIN YAPISAL VE OPTİKSEL ÖZELLİKLERİ**
EKİNCİ A., HOROZ S., ŞAHİN Ö.
AHTAMARA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 25 - 26 Ağustos 2018
17. **Mo KATKILI ZnS Nanopartiküllerin PARTİKÜL BÜYÜKLÜĞÜ ve ENERJİ BANDIBOŞLUKLARINA Mo KATKISININ ETKİSİ**
Günbat M., EKİNCİ A., HOROZ S., ŞAHİN Ö.
AHTAMARA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 25 - 26 Ağustos 2018
18. **INVESTIGATION OF PROPERTIES OF Ni DOPED PBS THIN FILMS**
HOROZ S., EKİNCİ A., ŞAHİN Ö.
III. ULUSLARARASI MESLEKİ VE TEKNİK BİLİMLER KONGRESİ, 21 - 22 Haziran 2018
19. **Cu-Cr-B KATALİZÖRÜ VARLIĞINDA SODYUM BOR HİDRÜR'ÜN HİDROLİZİNE ETKİSİ**
İZGİ M. S., ŞAHİN Ö., BAYTAR O., Saraçoğlu G., SAKA C.
3. ULUSLARARASI MESLEKİ VE TEKNİK BİLİMLER KONGRESİ, Gaziantep, Türkiye, 21 - 22 Haziran 2018, cilt.4, ss.2347-2353
20. **Investigation of borax pentahydrate crystallization in the CMSMPR system-the effects of CaSO₄·2H₂O and MgSO₄ impurities**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.
International Engineering and Technology Symposium (IETS'18), 3 - 05 Mayıs 2018
21. **Effects of CaSO₄·2H₂O and MgSO₄ impurities on industrial crystallization process of boric acid**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.
International Engineering and Technology Symposium (IETS'18), 3 - 05 Mayıs 2018
22. **CARBON MOLECULAR SIEVE PRODUCTION FROM ACORNSHELLS USING ZnCl₂**
KAYA M., SAKA C., ŞAHİN Ö.
International Conference on Applications in Chemistry and Chemical Engineering, 11 - 15 Ekim 2017
23. **CARBON MOLECULAR SIEVE PRODUCTION FROM SIIRTPISTACHIO SHELLS USING ZnCl₂**
KAYA M., SAKA C., ŞAHİN Ö.
International Conference on Applications in Chemistry and Chemical Engineering, 11 - 15 Ekim 2017
24. **Determination of Borax Pentahydrate Crystal Size Distribution and Shape in a CMSMPR Crystallizer-the Effect of Supersaturation, Feed Flow Rate and Stirring Speed with Time**
KUTLUAY S., CEYHAN A. A., DEMİR H., ŞAHİN Ö.
The International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Bosna-Hersek, 11 - 15 Ekim 2017
25. **Evolution of Boric Acid Crystal Size Distribution and Shape in a CMSMPR Crystallizer-the Effect of Residence Time, Stirring Speed, Feed Flow Rate and Amount of Supersaturation**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A., İZGİ M. S.
International Conference on Applications in Chemistry and Chemical Engineering, 11 - 15 Ekim 2017
26. **Synthesis and Catalytic Activity of Supported Co (II) Schiff Base Complex for Hydrogen Production**
KILINÇ D., ŞAHİN Ö.
International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET' 2017 BİTLİS), Bitlis, Türkiye, 27 - 29 Ekim 2017
27. **INVESTIGATION OF CATALYTIC HYDROGEN PRODUCTION BY POLYMER SUPPORTED Cu (II) - SCHIFF BASE COMPLEX**
KILINÇ D., ŞAHİN Ö.
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Türkiye, 19 - 22 Ekim 2017
28. **SOLID-LIQUID EQUILIBRIA (SLE) OF TERNARY SYSTEM NaCl+Zn(H₂PO₄)₂+H₂O AT T=(313.15 AND**

333.15 K)

ADIGÜZEL V., DEMİRCİ S., ŞAHİN Ö., İZGİ M. S.

International Conference on Applications in Chemistry and Chemical Engineering, Saraybosna, Bosna-Hersek, 11 - 15 Ekim 2017, ss.75

29. Synthesis and Catalytic Activity of Supported Ni (II) Schiff Base Complex in NABH₄ Hydrolysis

KILINÇ D., ŞAHİN Ö.

International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE 2017), SARAYBOSNA, Bosna-Hersek, 11 - 15 Ekim 2017

30. EFFECT OF MANGANESE ON THE PROPERTIES OF SB2S3

HOROZ S., ŞAHİN Ö., BAYTAR O.

INTERNATIONAL CONFERENCE ON APPLICATION INCEHMISTRY AND CHEMICAL ENGINEERING (ICACCHE), SARAYBOSNA, Bosna-Hersek, 11 - 15 Ekim 2017

31. SYNTHESIS AND CHARACTERIZATIONS OF PURE AND LA-DOPED CDS NANOPARTICLES

EKİNCİ A., HOROZ S., ŞAHİN Ö.

International Conference on Applications in Chemistry and Chemical Engineering, 11 - 15 Ekim 2017

32. Effect of Additives on Meta-stable Zone Width for Boric Acid Crystallization

AKIN M. B., ŞAHİN Ö.

International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), 11 - 14 Ekim 2017

33. Investigation of Ni-B Catalysts Obtained in Different Solutions in Hydrolysis of Sodium Borohydride

İZGİ M. S., ŞAHİN Ö., Onat E.

Sixth Bozok Science Workshop Studies from Nuclei to Nanomaterials with Applications, Yozgat, Türkiye, 23 - 25 Ağustos 2017, cilt.13, ss.23

34. Hydrogen Production from Sodium Borohydride Methanolizine in the Presence of Co-Cu-B-F Catalyst in Plasma Medium

İZGİ M. S., Tayboğa S., ŞAHİN Ö., HOROZ S.

INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017, ss.859

35. SYNTHESIS OF POLYMER SUPPORTED Ni (II)-SCHIFF BASE COMPLEX AND ITS USAGE AS A CATALYST IN HYDROGEN GENERATION FROM NaBH₄ HYDROLYSIS

KILINÇ D., ŞAHİN Ö.

2. Uluslararası Hidrojen Teknolojileri Kongresi (IHTEC 2017), Adana, Türkiye, 15 - 18 Mart 2017

36. tarımsal atık olan pamuk sapı, fıstık kabuğu ve susam kabuğundan aktif karbon üretimi

DİLEKOĞLU M. F., ŞAHİN Ö., SAKA C., SAKİN E.

Harran 1. Uluslararası Ar-GE proje pazarı, 12 Mayıs 2017

37. Tarımsal Atık Olan Pamuk Sapı, Fıstık Kabuğu ve Susam Kabuğundan Aktif Karbon ve Moleküler Karbon Elek Üretimi

DİLEKOĞLU M. F., ŞAHİN Ö., SAKA C.

Harran 1. Uluslararası AR-GE Proje Pazarı, Şanlıurfa, Türkiye, 12 Mayıs 2017, ss.178-180

38. ACTIVATED CARBON SUPPORTED CO-B CATALYST FOR THE HYDROLYSIS OF SODIUM BOROHYDRIDE

BAYTAR O., ŞAHİN Ö., HOROZ S.

INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 Nisan 2017 - 28 Ocak 2018

39. ZN (1-X) CO(X) S QUANTUM DOTS SENSITIZED SOLAR CELLS(QDSSCS)

HOROZ S., ŞAHİN Ö.

INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Türkiye, 25 - 28 Nisan 2017

40. Co Cu B Katalizörü Kullanılarak Sodyum Borhidrürden Hidrojen Üretimi Ve Pem Yakıt Pili Uygulamaları

EKİNCİ A., ŞAHİN Ö., İZGİ M. S.

10th International Clean Energy Symposium(UTES'16 / ICES'16), 24 - 26 Ekim 2016

41. Sodyum Bor Hidrürden Hidrojen Üretiminde Fe O Katalizörünün Kullanılması

BAYTAR O., ŞAHİN Ö., İZGİ M. S.

10th International Clean Energy Symposium(UTES'16 / ICES'16), 24 - 26 Ekim 2016

42. **Sodyum Bor Hidrürden Hidrojen Üretim için Katalitik Aktivitesi Artırılan Co Ti B Katalizörünün Üretimi Ve Geliştirilmesi**

İZGİ M. S., ŞAHİN Ö., ONAT E.

10th International Clean Energy Symposium(UTES'16 / ICES'16), 24 - 26 Ekim 2016

43. **Comparison Structural And Optical Properties Of Sb₂S₃ Thin Films**

HOROZ S., KOÇ H., ŞAHİN Ö.

10th International Clean Energy Symposium(UTES'16 / ICES'16), 24 - 26 Ekim 2016

44. **Production of Hydrogen from Sodium Borohydride Using Plasma Treated Co B Catalyst**

İZGİ M. S., EKİNCİ A., ŞAHİN Ö.

2nd International Turkic World Conference on Chemical Sciences and Technologies, 26 - 30 Ekim 2016

45. **The optimization of production parameters for borax pentahydrate crystals with the crystallization process in a modified continuous cooling MSMR crystallizer using FBRM and PVM probes**

KUTLUAY S., ŞAHİN Ö., CEYHAN A. A., İZGİ M. S.

1st International Mediterranean Science and Engineering Congress, 26 - 28 Ekim 2016

46. **BORİK ASİT KRİSTALLERİNİN BÜYÜME HIZLARINDAKİ SAÇILIM DAĞILIMININ FARKLI AÇILARDA İNCELENMESİ**

KAYA M., ABUT S., ŞAHİN Ö., CEYHAN A. A.

1st International Mediterranean Science and Engineering Congress, 26 - 28 Ekim 2016

47. **How ZnCl₂ And Zn H₂PO₄ 2 Are Separated by Using Solid Liquid Phase Equilibria**

ADIGÜZEL V., DEMİRCİ S., ŞAHİN Ö.

1st International Conference on Engineering Technology and Applied Sciences Afyon Kocatepe University, 21 - 22 Haziran 2016

48. **A Separating Method For NaH₂PO₄ and NaCl Salts From Their Solutions Using Phase Equilibria**

DEMİRCİ S., ADIGÜZEL V., ŞAHİN Ö.

1st International Conference on Engineering Technology and Applied Sciences Afyon Kocatepe University, 21 - 22 Haziran 2016

49. **An Experimental Study on a Fully Automatic Controlled Irrigating System by Using Solar Energy in Siirt Turkey**

BALBAY A., ÜLKER H., DEMİRTAŞ S., ŞAHİN Ö.

SOLARTR2014, İzmir, Türkiye, 19 - 21 Kasım 2014

50. **Energy Profile of Siirt**

Sahin Ö., Pala M., Balbay A., Hansu F., Ulker H.

International Conference on Energy and Management, Türkiye, 5 - 07 Haziran 2014, ss.315-324

Akademik İdari Deneyim

2017 - 2021	Rektör Yardımcısı	Siirt Üniversitesi
2009 - 2018	Dekan	Siirt Üniversitesi, Mühendislik Fakültesi
2009 - 2015	Bölüm Başkanı	Siirt Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Yönetilen Tezler

Okumuş V., Şahin Ö., Yenilenebilir enerji kaynağı olan hidrojen üretimi için mantar biyokütlesi ile immobilize edilmiş yeni katalizörlerin sentezi ve karakterizasyonu, Yüksek Lisans, A.FIRATOĞLU(Öğrenci), 2022

Kuncan M., Şahin Ö., Investigation of polymer electrolyte membrane (PEM) fuel cell and investigation of usage areas in

Turkey, Yüksek Lisans, B.AYIM(Öğrenci), 2021

Kuncan M., Şahin Ö., Suyun foto-elektrokimyasal yöntemle ayrıştırılmasında yarı iletkenlerin ve katalizörlerin etkisinin incelenmesi, Yüksek Lisans, E.CENGİZ(Öğrenci), 2021

Ceyhan A. A., Şahin Ö., Borik asidin metastabil bölge genişliği üzerine Al^{3+} , Zn^{2+} ve Pb^{2+} safsızlıklarının etkisi, Yüksek Lisans, A.REŞİTOĞLU(Öğrenci), 2021

Şahin Ö., Zn_2SnO_4 -Mn: Sb_2S_3 , Zn_2SnO_4 -Ni: Sb_2S_3 , Zn_2SnO_4 -Fe: Sb_2S_3 , Zn_2SnO_4 -Co: Sb_2S_3 yarı iletken nanokristallerinin gotovoltaik, yapısal, biçimsel ve optiksel Özelliklerinin incelenmesi, Yüksek Lisans, S.NAR(Öğrenci), 2021

Demir Kıvrak H., Şahin Ö., Ru temelli geliştirilen bazı katalizörlerin $NABH_4$ 'ün hidrolizinde kullanılması ve elektrokimyasal katalitik aktivitelerinin belirlenmesi, Doktora, T.AVCI(Öğrenci), 2021

Şahin Ö., Grafen oksit destekli Co-B ve Co-Cu-B katalizörleri kullanılarak sodyum borhidrürden hidrojen üretimi, Yüksek Lisans, A.BOZKURT(Öğrenci), 2020

Künkül ., Şahin Ö., Sodyum ve potasyum tetrafloroborat bileşiklerinin üretiminde kristalizasyon şartlarının belirlenmesi, Doktora, M.SENA(Öğrenci), 2019

Ağırtaş S., Şahin Ö., Potasyum bor hidrür (KBH_4) hidrolizinin çeşitli katalizörler varlığında farklı parametrelere bağlı olarak incelenmesi, Doktora, M.SALİH(Öğrenci), 2019

Şahin Ö., Producing activated carbon from sesame stem and using it in the immobilization of *Aspergillus niger* glucoamylase, Yüksek Lisans, Y.MOHAMMED(Öğrenci), 2018

Şahin Ö., Co-Cu-B ve Co-Cu-B-F katalizörleri varlığında sodyum borhidrürün metanolizinden hidrojen üretimi, Yüksek Lisans, S.TAYBOĞA(Öğrenci), 2018

Uyar R., Şahin Ö., Post- baking drying Siirt tandir bread by microwave oven, Yüksek Lisans, H.JAMAL(Öğrenci), 2018

Ceyhan A. A., Şahin Ö., Büyüme ve çözünmede saçılım gösteren maddelerin büyüme ve çözünme hızlarının durgun ortam tek kristal sisteminde farklı bir yaklaşımla incelenmesi, Doktora, M.KAYA(Öğrenci), 2018

Şahin Ö., Nanoboyutta farklı katalizörlerin sentezlenmesi ve fotokatalitik uygulamaları, Yüksek Lisans, H.KILIÇVURAN(Öğrenci), 2017

Şahin Ö., Bazı parametrelerin lityum metaborat dihidratın difüzyon katsayısı ve metastabil bölge genişliğine etkisi, Yüksek Lisans, T.AVCI(Öğrenci), 2014

Şahin Ö., Sodyum metaborat varlığının sodyum borhidrürün hidrojen depolama kapasitesine etkisinin incelenmesi, Yüksek Lisans, M.KAYA(Öğrenci), 2011

Şahin Ö., Ağırtaş M. S., Potasyum pentaborat tetrahidrat ve lityum tetraborat trihidratın üretimi ve üretim şartlarının belirlenmesi, Doktora, M.SAİT(Öğrenci), 2010

Yapıcı S., Şahin Ö., Pamuk yağından biyodizel üretiminin optimizasyonu, Yüksek Lisans, A.FIRAT(Öğrenci), 2008

Şahin Ö., Amonyum biborat tetrahidrattan boroksit üretimi, Yüksek Lisans, H.FIRATOĞLU(Öğrenci), 2007

Şahin Ö., Potasyum tetraborat tetrahidratın akışkan yatakta kurutma kinetiği, Yüksek Lisans, E.SABRİ(Öğrenci), 2006

Şahin Ö., Sodyum bor hidrürden hidrojen eldesi, Yüksek Lisans, M.SAİT(Öğrenci), 2006

Şahin Ö., Potasyum tetraborat tetrahidratın kristalizasyon kinetiği, Yüksek Lisans, M.GÖÇMEN(Öğrenci), 2005

Şahin Ö., Borik asit ve boraksın kristalizasyon kinetiğinin döner disk yöntemi ile çıkarılması, Yüksek Lisans, F.ASLAN(Öğrenci), 2004

Patent

Şahin Ö., Kutluay S., Bor Ürünleri Kristallerinin Partikül Boyut Dağılımı ve Habitinin İyileştirilmesi, Patent, BÖLÜM C Kimya; Metalürji, Buluşun Tescil No: TR 2019 130 56 B , Standart Tescil, 2022

Şahin Ö., AMONYUM FLOROBORAT ÜRETİM YÖNTEMİ, Patent, BÖLÜM C Kimya; Metalürji, Buluşun Tescil No: TR 2016 02075 B , Standart Tescil, 2018

Bilimsel Hakemlikler

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Eylül 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Eylül 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Eylül 2022
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Kapsamındaki Dergi, Ağustos 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Temmuz 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Hakemli Bilimsel Dergi, Temmuz 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Haziran 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Haziran 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Haziran 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Hakemli Bilimsel Dergi, Mayıs 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Mayıs 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Mart 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Mart 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Şubat 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Şubat 2022
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Aralık 2021
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Haziran 2021
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Haziran 2021
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Mayıs 2021
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Nisan 2021
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Kapsamındaki Dergi, Eylül 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Şubat 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Eylül 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Eylül 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Mayıs 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Nisan 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Mart 2018
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Haziran 2017
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Kapsamındaki Dergi, Ekim 2016

Etkinlik Organizasyonlarındaki Görevler

Şahin Ö., Gürmen S., Kumral M., Saygılı G., Derin C. B., Sönmez M. Ş., Kutluay S., Uluslararası Bor Sempozyumu BORON 2022, Bilimsel Kongre / Sempozyum Organizasyonu, İstanbul, Türkiye, Ekim 2022
Şahin Ö., Baytar O., İzgi M. S., Horoz S., Kutluay S., Ekinci A., INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING, Bilimsel Kongre / Sempozyum Organizasyonu, Belgrade, Sırbistan, Ekim 2018
Şahin Ö., Hansu F., İzgi M. S., Ekinci A., Baytar O., International Conference on Applications in Chemistry and Chemical Engineering, Bilimsel Kongre / Sempozyum Organizasyonu, Sarajevo, Bosna-Hersek, Ekim 2017
Şahin Ö., İzgi M. S., Horoz S., Baytar O., Ekinci A., Ece M. Ş., Kutluay S., The 3rd International Conference on Applications in Chemistry and Chemical Engineering, Bilimsel Kongre / Sempozyum Organizasyonu, Bosna-Hersek, Eylül 2016

Metrikler

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Çevre Teknolojileri, İnorganik Teknolojiler, Yakıtlar ve Yanma Teknolojileri, Kimyasal Reaksiyon Mühendislięi, Kataliz ve Katalitik Süreçler, Ayırma İşlemleri