

## Prof. Aysel KANTÜRK FİGEN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: E-1897-2017

ScopusID: 53867954300

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### Biography

Aysel Kantürk Figen was born in Tolbihin/Bulgaria on 28 July 1980. She earned a BS in Chemical Engineering field at Ankara University. She accomplished her MSc degree in 2006 and consequently, received her Ph.D degree in 2011 in the field of hydrogen energy storage technology .in Yildiz Technical University (YTU), İstanbul, which is among the well-known universities in the country. She started her academic studies as a research assistant in the Department of Chemical Engineering at Yıldız Technical University in 2005. In 2015, she started as an associate professor in YTU. Dr. Aysel KANTÜRK FİGEN's work has focused on the production of boron-containing hydrogen storage, hydrogen production and catalysts fabrication and their applications in sustainable energy systems. Her studies in the fields of renewable energy and catalyst technologies continue on the application of new methods using local resources. Dr. Kantürk Figen currently works in Yildiz Technical University as a full associated professor with the research topic of hydrogen production, synthesis of hydrogen storage medium, and application of catalytic system. She has been working as the Vice Coordinator of Yıldız Technical University Science and Technology Application and Research Center (Center Laboratory) between 2020-2021. She was also selected as a board member of the National Hydrogen Technologies Association in July 2021. She served as the Head of the Department of Chemical Engineering between 2021-2022. She was appointed as the Director of YTU Clean Energy Technologies Institute in August 2022.

In 2020, Turkey Academy of Sciences (TUBA) - Outstanding Young Scientist (GEBİP) Engineering was awarded. She has been a member of Young TUBA Academy. Her Scopus Author ID is 53867954300.

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Chemical Engineering, Turkey 2006 - 2011

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Chemical Engineering, Turkey 2004 - 2006

Undergraduate, Ankara University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1999 - 2004

## Certificates, Courses and Trainings

Other, Ölçme Değerlendirme, Yıldız Teknik Üniversitesi, 2019

Other, Sınıf Yönetimi, Yıldız Teknik Üniversitesi, 2019

Other, Öğretim Teknolojileri, Yıldız Teknik Üniversitesi, 2019

Other, Öğretim Yöntemi ve Teknikleri, Yıldız Teknik Üniversitesi, 2019

Other, Kişilerarası İlişkiler ve Etkili İletişim, Yıldız Teknik Üniversitesi, 2019

Other, MÜDEK Eğitim Çalıştayı, Mühendislik Programları Değerlendirme ve Akreditasyon Derneği , 2018

## Dissertations

Doctorate, Farklı kompozisyonlardaki borat bileşiklerinden, hidrojen depolama ortamı olarak metal borhidrür üretimi ve üretim mekanizmasının incelenmesi, Yıldız Technical University, Graduate School of Natural and Applied Sciences, 2011  
Postgraduate, BORAKSTAN SODYUM BORHİDRÜR ÜRETİMİ VE ÜRETİMİ ETKİLEYEN PARAMETRELERİN İNCELENMESİ, 2006

## Research Areas

Chemical Engineering and Technology, Catalysis and Catalytic Processes, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2015 - 2021

## Academic and Administrative Experience

Director of The Institution, Yildiz Technical University, -----, Temiz Enerji Teknolojileri Enstitüsü , 2022 - Continues

BAP Scientific Commissioner, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - Continues

Manager of Research and Application Center, Yildiz Technical University, Enerji Uygulama ve Araştırma Merkezi , 2021 - 2022

Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - 2022

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, 2018 - 2022

Assistant Manager of Research and Application Center, Yildiz Technical University, Bilim ve Teknoloji Uygulama ve Araştırma Merkezi, 2020 - 2021

## Courses

DeneySEL Tasarım ve Veri Analizi, Undergraduate, 2018 - 2019

SÜRDÜRÜLEBİLİR VE TEMİZ ENERJİ SİSTEMLERİ, Postgraduate, 2018 - 2019

GİRİŞ. VE PROJE YÖN., Undergraduate, 2018 - 2019

Kimya Mühendisleri için Malzeme Bilimi, Undergraduate, 2018 - 2019  
İŞ SAĞLIĞI VE GÜVENLİĞİ-1 , Undergraduate, 2018 - 2019  
Kimya End., Analiz Yön. , Undergraduate, 2018 - 2019  
Biyokimyasal Mühendislik, Undergraduate, 2018 - 2019  
Termal analizin endüstriyel uygulamaları, Postgraduate, 2018 - 2019  
Kimya Mühendisliği Hesaplamaları, Undergraduate, 2017 - 2018

## Advising Theses

Kantürk Figen A., AMONYUM BORAN TEMELLİ ENERJİ DEPOLAMA MALZEMELERİNİN GELİŞTİRİLMESİ VE VERİMLİLİK ANALİZLERİ, Postgraduate, D.Su(Student), Continues  
Kantürk Figen A., Yenilenebilir Enerji Uygulamaları için Plastik Atıkların Termal ve Katalitik Süreçlerinin İncelenmesi, Doctorate, I.HUSSEIN(Student), Continues  
Kantürk Figen A., Hidrojen saflaştırma için aktif karbon temelli adsorban geliştirilmesi, Postgraduate, S.TIRAŞ(Student), Continues  
Kantürk Figen A., Yargı Ö., Süper Kapasitörlerde Hidrojen Depolama Malzemelerinin Kullanılabilirliğinin İncelenmesi, Postgraduate, D.Kutluer(Student), Continues  
Kantürk Figen A., Coşkuner Filiz B., Nano Döküm Prosedürü ile Katalitik Kobalt Oksit Kürelerinin Üretimi, Karakterizasyonu ve Amonyum Boran Hidroliz Reaksiyonundaki Aktivitesi, Postgraduate, B.NUR(Student), 2023  
Kantürk Figen A., Polimerik Reçineler ile Polisiklik Aromatik Hidrokarbonların (PAH) Giderimi , Rejenerasyonu ve Çevresel Ölçümlerde Tekrar Kullanılabilirliğinin İncelenmesi, Postgraduate, A.GÜVERCİNCİ(Student), 2023  
Kantürk Figen A., Metal Oksit Katalizörlerin Sentezlenmesi, Hidrojen Üretim Reaksiyonlarındaki Elektrokatalitik ve Fotokatalitik Özelliklerinin İncelenmesi, Postgraduate, İ.Karaman(Student), 2023  
Kantürk Figen A., Midilli A., Çay Lifinin Kimyasal Aktivasyonu ile Karbon Yapılara Dönüşümünün İncelenmesi , Postgraduate, G.AL(Student), 2023  
Kantürk Figen A., Civelek Yörüklü H., Karbon Kuantum Nokta ve Tungsten Trioksit Katkılı Titanyum Dioksit Fotokatalizörlerin Sentezlenmesi ve Atık Sulardan Aromatik Aminlerin Gideriminde Kullanımlarının İncelenmesi, Postgraduate, S.ÖZDEMİR(Student), 2023  
Kantürk Figen A., Titanyum Dioksit Nanopartiküllerinin Yeşil Sentez Yöntemiyle Sentezlenmesi ve Antifungal Özelliklerinin İncelenmesi, Postgraduate, C.Zeybek(Student), 2023  
Kantürk Figen A., Elalmış Y., Aktif Karbon Manyetik Kompozitlerin Üretimi Ve Fenol Gideriminde Kullanılmasının İncelenmesi, Postgraduate, T.ÇİLİNGİRYAN(Student), 2022  
Kantürk Figen A., Demirci U. B., Karbondioksitin Kimyasal Dönüşümünde Oluşan Borat ve Format Komplekslerin Yapısal Özelliklerinin Tanımlanması ve Değerlendirme Seçeneklerinin İncelenmesi, Postgraduate, Ö.Coşkuner(Student), 2022  
Kantürk Figen A., Coşkuner Filiz B., Formik asitten eş-anlı hidrojen üretiminin katalitik olarak incelenmesi, Postgraduate, S.SANCI(Student), 2022  
Kantürk Figen A., Açıklın K., Atık Baskılı Devre Kartlarının Termal Bozunma Süreçlerinin İncelenmesi, Postgraduate, H.H.(Student), 2021  
Kantürk Figen A., Demirci U. B., Sodyum Borhidrürün Metanolitik Dehidrojenasyonundan Elde Edilen Katıların Karakterizasyonu, Geri Dönüşümü ve Hidrojen Çevrimi, Postgraduate, B.Nur(Student), 2021  
Kantürk Figen A., Ahşap koruma amaçlı bor içeren çubukların üretimi ve özelliklerinin belirlenmesi, Postgraduate, S.AYDIN(Student), 2020  
KANTÜRK FİGEN A., KOLEMANİT ESASLI BOR ÇUBUKLARININ AHŞAP YAPI ELEMANLARINDA KULLANIMININ İNCELENMESİ, Postgraduate, M.Çordan(Student), 2019  
Kantürk Figen A., Amonyum boran ve metilamin boranın hidroliz reaksiyonu için kobalt-rutenyum/polivinil alkol hibrit katalizörünün sentezlenmesi ve karakterizasyonu, Postgraduate, D.GENİŞ(Student), 2019  
Kantürk Figen A., Ağaç Malzemede Borik Asit Emprenye Prosesinin İncelenmesi ve Uygulamaları , Postgraduate, G.AKAYDIN(Student), 2017  
KANTÜRK FİGEN A., Magnezyum Atıklarından Hidrojen Üretiminin İncelenmesi, Postgraduate, Ç.Öz(Student), 2017  
Kantürk Figen A., Amonyum boran pelletlerin hidrojen üretim özelliklerinin incelenmesi, Postgraduate,

E.KESKİN(Student), 2017

KANTÜRK FİGEN A., Sodyum Borhidrürün (NaBH<sub>4</sub>) Hidrolizi ve Alkolizi için Katalizör Sentezi ve Aktivitelerinin İncelenmesi, Postgraduate, E.Meşe(Student), 2017

Kantürk Figen A., Pişkin S., Sodyum Borhidrür (NaBH<sub>4</sub>) Temelli Hidrür Kompozitlerin Hazırlanması ve Hidrojen Depolama Özelliklerinin İncelenmesi, Postgraduate, K.Taşçı(Student), 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The compaction behavior of Magnesium-Expanded Natural Graphite powder mixtures: Tensile strengths of compacted pellets**  
Güden M., Berkan Betin B., Can Hepteppe C., Batı Güleç E., Emre Yağcı Y., KANTÜRK FİGEN A., COŞKUNER FİLİZ B.  
Materials Letters, vol.377, 2024 (SCI-Expanded)
- II. **The electrochemical performance of electrodeposited nickel foam electrodes coated by nano-confined lithium borohydride-metal oxides composites**  
Kutluer D., Coşkuner Filiz B., Yargı Ö., Gelir A., Kantürk Figen A.  
SOLID STATE IONICS, vol.415, no.116657, pp.1-9, 2024 (SCI-Expanded)
- III. **Multi-criteria decision framework for catalyst selection: Production of formic acid as a circular liquid organic hydrogen carrier in the hydrogen economy**  
NOYAN TEKELİ F., COŞKUNER FİLİZ B., CİVELEK YÖRÜKLÜ H., KANTÜRK FİGEN A.  
Journal of Cleaner Production, vol.452, 2024 (SCI-Expanded)
- IV. **Confined ammonia borane nanocarriers: Tubular and fibrous structures based solid-state hydrogen storage composites**  
Aydın D. S., Coşkuner Filiz B., Kantürk Figen A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.0, no.0, pp.1-10, 2024 (SCI-Expanded)
- V. **Boron-based hydrogen storage materials towards Power-to-X technology on the path to carbon neutrality**  
COŞKUNER FİLİZ B., CİVELEK YÖRÜKLÜ H., Açıkalın K., Demirci U. B., KANTÜRK FİGEN A.  
International Journal of Hydrogen Energy, vol.48, no.99, pp.39389-39407, 2023 (SCI-Expanded)
- VI. **Regeneration of Co-based bead type catalyst in ammonia borane hydrolysis for hydrogen generation: Artificial neural networks and response surface methodology**  
Coşkuner Filiz B., Kinsiz B. N., Kılıç Depren S., Kantürk Figen A.  
Journal of Cleaner Production, vol.419, 2023 (SCI-Expanded)
- VII. **Recycling of printed circuit board e-wastes: a combined study of pyrolysis characteristics, kinetics and evolved gas analyses at various particle sizes**  
Cebeci H. H., Açıkalın K., KANTÜRK FİGEN A.  
Journal of Material Cycles and Waste Management, vol.25, no.4, pp.2205-2221, 2023 (SCI-Expanded)
- VIII. **Upcycling of waste printed circuit boards into metallic pyrolytic carbon for supercapacitor electrode**  
Cebeci H. H., Yılmaz İ., YARGI Ö., Açıkalın K., Gelir A., KANTÜRK FİGEN A.  
Journal of Materials Science: Materials in Electronics, vol.34, no.4, 2023 (SCI-Expanded)
- IX. **Photo-enhanced catalytic hydrogen production from ammonia borane dehydrogenation over cobalt doped n-type semiconductors**  
Coşkuner Filiz B., Kantürk Figen A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.48, no.15, pp.22954-22966, 2023 (SCI-Expanded)
- X. **Boron-doped Cobalt nanoparticles anchored to different activated carbon supports as recyclable catalysts for enhanced alkyl-substituted amine boranes dehydrogenation**  
Coşkuner Filiz B., Kantürk Figen A.  
International Journal of Hydrogen Energy, vol.47, no.95, pp.40286-40303, 2022 (SCI-Expanded)
- XI. **Catalytic semi-continuous operation modes for hydrogen generation from carbon derivatives of ammonia boranes**  
Coşkuner Ö., Kantürk Figen A.

- International Journal of Hydrogen Energy, vol.47, no.95, pp.40304-40316, 2022 (SCI-Expanded)
- XII. **Sodium borohydride hydrolysis-mediated hydrogenation of carbon dioxide, towards a two-step production of formic acid**  
Coşkuner Ö., A. Castilla-Martinez C., Sonzogni O., Petit E., Demirci U. B., Kantürk Figen A.  
International Journal of Hydrogen Energy, vol.47, no.62, pp.26490-26500, 2022 (SCI-Expanded)
- XIII. **Ammonia borane-based reactive mixture for trapping and converting carbon dioxide**  
Castilla-Martinez C. A., Coşkuner Filiz B., Petit E., Kantürk Figen A., Demirci U. B.  
FRONTIERS OF MATERIALS SCIENCE, vol.16, no.2, pp.1-6, 2022 (SCI-Expanded)
- XIV. **Screening of biohydrogen production based on dark fermentation in the presence of nano-sized Fe<sub>2</sub>O<sub>3</sub> doped metal oxide additives**  
Yörüklü H., Filiz B. C., Kantürk Figen A., Özkaya B.  
International Journal of Hydrogen Energy, vol.47, no.34, pp.15383-15396, 2022 (SCI-Expanded)
- XV. **Fabrication of stable electrospun blended chitosan-poly(vinyl alcohol) nanofibers for designing naked-eye colorimetric glucose biosensor based on GOx/HRP**  
Filiz B. C., Elalmis Y. B., Bektas I. S., Figen A.  
International Journal of Biological Macromolecules, vol.192, pp.999-1012, 2021 (SCI-Expanded)
- XVI. **Hydro-catalytic treatment of organoamine boranes for efficient thermal dehydrogenation for hydrogen production**  
Coşkuner Ö., Kantürk Figen A.  
International Journal of Hydrogen Energy, vol.46, no.72, pp.35641-35652, 2021 (SCI-Expanded)
- XVII. **Nano-casting procedure for catalytic cobalt oxide bead preparation from calcium-alginate capsules: Activity in ammonia borane hydrolysis reaction**  
Kinsiz B. N., Coşkuner Filiz B., Kılıç Depren S., Kantürk Figen A.  
Applied Materials Today, vol.22, 2021 (SCI-Expanded)
- XVIII. **Comparative evaluation of boron distribution from ulexite, colemanite and DOT rods in Scots pine wood**  
Kartal S. N., Terzi E., Kantürk Figen A., Cordan M., Aydın S., Pişkin S.  
JOURNAL OF FORESTRY RESEARCH, vol.31, no.1, pp.419-426, 2021 (SCI-Expanded)
- XIX. **Semi-continuous regime for continuous hydrogen production from sodium borohydride methanolytic dehydrogenation**  
Kantürk Figen A.  
POLYHEDRON, vol.194, pp.1-7, 2021 (SCI-Expanded)
- XX. **Closing the hydrogen cycle with the couple sodium borohydride-methanol, via the formation of sodium tetramethoxyborate and sodium metaborate**  
Aydın K., Kulaklı B. N., COŞKUNER FİLİZ B., Alligier D., Demirci U. B., KANTÜRK FİGEN A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.14, pp.11405-11416, 2020 (SCI-Expanded)
- XXI. **Movement of boron from ulexite and colemanite minerals in sapwood and heartwood of Cryptomeria japonica**  
Kartal S. N., Terzi E., Kantürk Figen A., Yoshimura T.  
JOURNAL OF FORESTRY RESEARCH, vol.31, no.6, pp.2597-2603, 2020 (SCI-Expanded)
- XXII. **Reusable hybrid foam catalyst for hydrolytic dehydrogenation of amine adducts of borane: Porous PVA-Immobilized Co–Ru nanoparticles**  
Geniş D., Coşkuner Filiz B., Kılıç Depren S., Kantürk Figen A.  
Microporous and Mesoporous Materials, vol.305, 2020 (SCI-Expanded)
- XXIII. **Ultra-layered sheet Cu–Co nanoparticles for optimized application in catalytic reduction of organic dye**  
Kılıç Depren S., Coşkuner Filiz B., Kulaklı B. N., Kantürk Figen A.  
Materials Characterization, vol.160, 2020 (SCI-Expanded)
- XXIV. **Improved catalytic performance of metal oxide catalysts fabricated with electrospinning in ammonia borane methanolysis for hydrogen production**  
KANTÜRK FİGEN A.

- International Journal of Hydrogen Energy, vol.44, no.53, pp.28451-28462, 2019 (SCI-Expanded)
- XXV. **Insight into the role of solvents in enhancing hydrogen production: Ru-Co nanoparticles catalyzed sodium borohydride dehydrogenation**  
Coşkuner Filiz B., Kantürk Figen A.  
International Journal of Hydrogen Energy, vol.44, pp.28471-28482, 2019 (SCI-Expanded)
- XXVI. **Applied ultrasound assisted research on synthesis and in-situ hydrolysis of ammonia borane for hydrogen energy**  
Filiz B., Figen A., Pişkin S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.20, pp.10003-10013, 2019 (SCI-Expanded)
- XXVII. **Hydrogen production from sodium borohydride originated compounds: Fabrication of electrospun nano-crystalline Co<sub>3</sub>O<sub>4</sub> catalyst and its activity**  
Filiz B., Figen A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.20, pp.9883-9895, 2019 (SCI-Expanded)
- XXVIII. **The Molecular-Kinetic Approach to Hydrolysis of Boron Hydrides for Hydrogen Production**  
COŞKUNER FİLİZ B., KANTÜRK FİGEN A.  
KINETICS AND CATALYSIS, vol.60, no.1, pp.37-43, 2019 (SCI-Expanded)
- XXIX. **Polymeric and metal oxide structured nanofibrous composites fabricated by electrospinning as highly efficient hydrogen evolution catalyst**  
Kantürk Figen A., Coşkuner Filiz B.  
Journal of Colloid and Interface Science, vol.533, pp.82-94, 2019 (SCI-Expanded)
- XXX. **The remarkable role of metal promoters on the catalytic activity of Co-Cu based nanoparticles for boosting hydrogen evolution: Ammonia borane hydrolysis**  
Coşkuner Filiz B., Kantürk Figen A., Pişkin S.  
Applied Catalysis B: Environmental, vol.238, pp.365-380, 2018 (SCI-Expanded)
- XXXI. **Recommendations for ammonia borane composite pellets as a hydrogen storage medium**  
Keskin E., Filiz B., Depren S., Figen A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.45, pp.20354-20371, 2018 (SCI-Expanded)
- XXXII. **Cobalt-boron loaded thermal activated Turkish sepiolite composites (Co-B@tSe) as a catalyst for hydrogen delivery**  
Mese E., Figen A., Filiz B. C., Pişkin S.  
Applied Clay Science, vol.153, pp.95-106, 2018 (SCI-Expanded)
- XXXIII. **Synergetic Effect of Sodium Borohydride Addition in Ammonia Borane Hydrolysis Reaction Mechanism and Kinetics**  
Kantürk Figen A., Taşçı K., Coşkuner Filiz B.  
Kinetics and Catalysis, vol.59, pp.128-135, 2018 (SCI-Expanded)
- XXXIV. **Colemanite: A fire retardant candidate for wood plastic composites**  
Terzi E., Kartal S. N., Pişkin S., Stark N., Figen A., White R. H.  
BioResources, vol.13, pp.1491-1509, 2018 (SCI-Expanded)
- XXXV. **Dual combining transition metal hybrid nanoparticles for ammonia borane hydrolytic dehydrogenation**  
Filiz B. C., Figen A., Pişkin S.  
Applied Catalysis A: General, vol.550, pp.320-330, 2018 (SCI-Expanded)
- XXXVI. **Full in-vitro analyses of new-generation bulk fill dental composites cured by halogen light**  
Tekin T. H., Kantürk Figen A., Yılmaz Atalı P., Coşkuner Filiz B., Pişkin M. B.  
Materials Science and Engineering C, vol.77, pp.436-445, 2017 (SCI-Expanded)
- XXXVII. **Devolatilization kinetics of olive leaves with application as a precursor for activated carbon production**  
Sarı H., Kantürk Figen A., Coşkuner Filiz B., Ünal Y., Pişkin S.  
Instrumentation Science and Technology, vol.45, pp.440-458, 2017 (SCI-Expanded)
- XXXVIII. **Open sun drying of green bean: influence of pretreatments on drying kinetics, colour and rehydration capacity**

- İSMAİL O., FİGEN A., PİSKİN S.  
HEAT AND MASS TRANSFER, vol.53, no.4, pp.1277-1288, 2017 (SCI-Expanded)
- XXXIX. **Ammonia borane–boron composites for hydrogen release: Thermolysis kinetics**  
Ergüven H., KANTÜRK FİGEN A., PİŞKİN S.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.39, no.6, pp.613-617, 2017 (SCI-Expanded)
- XL. **The effect of vinegar–acetic acid solution on the hydrogen generation performance of mechanochemically modified Magnesium (Mg) granules**  
Öz Ç., Coşkuner Filiz B., Kantürk Figen A.  
Energy, vol.127, pp.328-334, 2017 (SCI-Expanded)
- XLI. **Fabrication of electrospun nanofiber catalysts and ammonia borane hydrogen release efficiency**  
Filiz B. C., Figen A.  
International Journal of Hydrogen Energy, vol.41, pp.15433-15442, 2016 (SCI-Expanded)
- XLII. **Hydrolysis characteristics of calcium hydride (CaH<sub>2</sub>) powder in the presence of ethylene glycol, methanol, and ethanol for controllable hydrogen production**  
Figen A., Tasci K.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, pp.37-42, 2016 (SCI-Expanded)
- XLIII. **Hydrogen production by the hydrolysis of milled waste magnesium scraps in nickel chloride solutions and nickel chloride added in Marmara Sea and Aegean Sea Water**  
Figen A., Filiz B. C.  
International Journal of Hydrogen Energy, vol.40, pp.16169-16177, 2015 (SCI-Expanded)
- XLIV. **Swelling, mechanical and mucoadhesion properties of Mt/starch-g-PMAA nanocomposite hydrogels**  
Guler M. A., Gok M. K., Figen A., Ozgumus S.  
Applied Clay Science, pp.44-52, 2015 (SCI-Expanded)
- XLV. **Hydrogen generation from waste Mg based material in various saline solutions (NiCl<sub>2</sub>, CoCl<sub>2</sub>, CuCl<sub>2</sub>, FeCl<sub>3</sub>, MnCl<sub>2</sub>)**  
Figen A., Coskuner B., Piskin S.  
International Journal of Hydrogen Energy, vol.40, pp.7483-7489, 2015 (SCI-Expanded)
- XLVI. **Effects of open-air sun drying and pre-treatment on drying characteristics of purslane (Portulaca oleracea L.)**  
İsmail O., Figen A., Piskin S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.51, pp.807-813, 2015 (SCI-Expanded)
- XLVII. **Study on the dehydration kinetics of tunellite using non-isothermal methods**  
Yilmaz M., Figen A., Piskin S.  
Research on Chemical Intermediates, vol.41, pp.1893-1906, 2015 (SCI-Expanded)
- XLVIII. **Thermal, spectral, and surface properties of LED light-polymerized bulk fill resin composites**  
Pişkin M. B., Atali P. Y., Figen A.  
Biomedizinische Technik, vol.60, pp.65-75, 2015 (SCI-Expanded)
- XLIX. **Thermal properties and kinetics of new-generation posterior bulk fill composite cured light-emitting diodes**  
Figen A., Atali P. Y., Pişkin M. B.  
Journal of Thermal Analysis and Calorimetry, vol.118, pp.31-42, 2014 (SCI-Expanded)
- L. **Hydrogen desorption kinetics of MgH<sub>2</sub> synthesized from modified waste magnesium**  
Figen A., Coskuner B., Piskin S.  
Materials Science- Poland, vol.32, no.3, pp.385-390, 2014 (SCI-Expanded)
- LI. **The use of boric acid (H<sub>3</sub>B<sub>3</sub>O<sub>3</sub>) and boron oxide (B<sub>2</sub>O<sub>3</sub>) for co-precipitation synthesis of cobalt-boron catalysts: Catalytic activity in hydrogen generation**  
Coşkuner B., Kantürk Figen A., Pişkin M. B.  
Kinetics and Catalysis, vol.55, pp.809-823, 2014 (SCI-Expanded)
- LII. **Characterization and modification of waste magnesium chip utilized as an Mg-rich intermetallic composite**

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## **Memberships / Tasks in Scientific Organizations**

National Hydrogen Association, Board Member, 2021 - Continues, Turkey

Hidrojen Teknolojileri Derneği, Member, 2017 - Continues

## **Scientific Refereeing**

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi , National Scientific Refreed Journal, October 2017

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## Tasks In Event Organizations

Kantürk Figen A., 8. Uluslararası Hidrojen Teknolojileri Kongresi , Scientific Congress, Diyarbakır, Turkey, Mayıs 2024  
Kantürk Figen A., The 14th International Conference on Hydrogen Production (ICH2P-2023), Scientific Congress, Qatar, Aralık 2023  
Kantürk Figen A., 7. Uluslararası Hidrojen Teknolojileri Kongresi, Scientific Congress, Elazığ, Turkey, Mayıs 2023  
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Kantürk Figen A., Chemical Engineering and Chemical Technologies, Scientific Congress, İstanbul, Turkey, Kasım 2014  
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## Invited Talks

Enerji Kaynakları ve Uygulamaları Kış Okulu, Workshop, Orta Doğu Teknik Üniversitesi, Turkey, February 2010

## Scholarships

2. TÜBİTAK Yurt Dışı Bilimsel Etkinliklere Katılma Bursu, School of Calorimetry: Calorimetry and thermal methods in catalysis, Institut de Recherches sur la Catalyse et l'Environnement de Lyon , TUBITAK, 2010 - 2010  
XXI Congress of the International Union of Crystallography (IUCr 2008) kongresine katılım ve yol masrafları bursu, Other International Organizations, 2008 - 2008

## Awards

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Kantürk Figen A., Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi bünyesinde İndeksli dergilerde en çok yayın yapan öğretim üyeleri arasında 2. Sıra Başarı Ödülü, Yıldız Teknik Üniversitesi, July 2020  
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