

Prof. Ayşe BAYRAKÇEKEN

Personal Information

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International Researcher IDs

ScholarID: ULg1izYAAAAJ

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Publons / Web Of Science ResearcherID: F-9342-2015

ScopusID: 23468849600

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Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 2004 - 2008

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 2002 - 2004

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1996 - 2000

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Supercritical Fluids-Green Solvents in Chemical Engineering, KOÇ ÜNİVERSİTESİ, 2009

Other, First Anatolian School on Catalysis (ASC-I), ODTÜ, 2006

Dissertations

Doctorate, Platinum and platinum-ruthenium based catalysts on various carbon supports prepared by different methods for pem fuel cell applications, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2008

Postgraduate, Determination of the factors that affect the performance of proton exchange membrane fuel cells, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2004

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - Continues
Associate Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2014 - 2020
Assistant Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2011 - 2014
Research Assistant PhD, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2008 - 2011
Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2002 - 2008

Academic and Administrative Experience

Scientific Award Committee Member, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - Continues
Member of the Senate, Ataturk University, Rektörlük, 2020 - Continues
Vice Rector, Ataturk University, Rektörlük, 2020 - Continues
BAP Scientific Commissioner, Ataturk University, Rektörlük, 2020 - Continues
University Executive Board Member, Ataturk University, Rektörlük, 2020 - Continues
Manager of Research and Application Center, Ataturk University, 2016 - 2020
Assistant Manager of Research and Application Center, Ataturk University, 2017 - 2017
Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, 2014 - 2016

Courses

NANOTEKNOLOJİYE GİRİŞ, Undergraduate, 2017 - 2018, 2011 - 2012, 2009 - 2010
BİTİRME PROJESİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2009 - 2010
ALTERNATİF ENERJİ KAYNAKLARI, Undergraduate, 2018 - 2019
CHEMICAL ENGINEERING COMPUTING, Undergraduate, 2012 - 2013, 2010 - 2011
KİMYA MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI, Undergraduate, 2012 - 2013, 2010 - 2011
FUEL CELLS AND HYDROGEN ENERGY SYSTEM, Undergraduate, 2011 - 2012
YAKIT PİLLERİ VE HİDROJEN ENERJİ SİSTEMİ, Undergraduate, 2011 - 2012

Advising Theses

Bayrakçeken Yurtcan A., Pem yakıt pilleri için magnetron saçırma yöntemi ile M@Pt/C (Co, Ni, Fe, Cu) çok katmanlı elektrokatalizör hazırlanması, Postgraduate, S.KURTULUŞ(Student), 2021
Bayrakçeken Yurtcan A., SIVI BESLEMELİ YAKIT PİLİ UYGULAMALARI İÇİN KATALİZÖR SENTEZİ VE KARAKTERİZASYONU, Doctorate, M.Selim(Student), 2020
Bayrakçeken Yurtcan A., PEM Yakıt Pilleri İçin Hidrofobik Yüzey Geliştirilmesi, Doctorate, H.ÜNGAN(Student), 2019
BAYRAKÇEKEN YURTCAN A., Farklı akış alanı tasarımlarının yakıt pili performansına etkisinin deneysel ve sayısal incelenmesi, Doctorate, K.Geliş(Student), 2019
BAYRAKÇEKEN YURTCAN A., Azot Katkılı Karbon Yapılarının PEM Yakıt Pili Katalizör Destek Malzemesi olarak Sentezi ve Karakterizasyonu, Postgraduate, M.Hurşit(Student), 2019
BAYRAKÇEKEN YURTCAN A., Süperkritik karbondioksit depozisyon tekniği ile hazırlanan grafen bazlı platin katalizörlerin sentezi, karakterizasyonu ve PEM yakıt pilinde kullanımı, Doctorate, E.Daş(Student), 2018
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için metal oksit destekli katalizör geliştirilmesi, Postgraduate, M.Koray(Student), 2017
BAYRAKÇEKEN YURTCAN A., İlaç salınımlarında silika yapıları ve carvedilolun süperkritik karbondioksit depozisyonu yöntemi ile yüklenmesi, Postgraduate, N.Özçelik(Student), 2016
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için mikrogözenekli katman geliştirilmesi, Postgraduate, A.Öztürk(Student), 2016
BAYRAKÇEKEN YURTCAN A., Farklı yapılarıdaki karbon aerogellerin sentezi ve karakterizasyonu, Postgraduate,

M.Samancı(Student), 2015

BAYRAKÇEKEN YURTCAN A., Polipirol ve farklı yapılarıdaki karbon tabanlı kompozitlerin hazırlanması ve karakterizasyonu, Postgraduate, H.Deaghanpour(Student), 2015

BAYRAKÇEKEN YURTCAN A., Pem yakıt pilleri için saçırtma yöntemi ile elektrot hazırlanması, Atatürk Üniversitesi, Postgraduate, M.Selim(Student), 2014

BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için iletken polimer/karbon destekli Pt katalizörlerin mikrodalga yöntemi ile hazırlanması, Postgraduate, E.Daş(Student), 2014

BAYRAKÇEKEN YURTCAN A., PEM yakıt pili katalizörleri için destek malzemesi olarak iletken polimer/karbon kompozitlerinin sentezi ve karakterizasyonu, Postgraduate, F.Memioğlu(Student), 2012

BAYRAKÇEKEN YURTCAN A., Parameters influencing long term performance and durability of PEM fuel cells, Postgraduate, E.Seda(Student), 2011

BAYRAKÇEKEN YURTCAN A., Development of different carbon supports for proton Exchange membrane fuel cell electrocatalysts, Postgraduate, B.Güvenatam(Student), 2010

Jury Memberships

Doctorate, Doctorate, Atatürk Üniversitesi, March, 2022

Doctoral Examination, Doctoral Examination, Sabancı Üniversitesi, March, 2022

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Ondokuz Mayıs Üniversitesi, February, 2022

Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, April, 2021

Associate Professor Exam, Associate Professor Exam, Bursa Teknik Üniversitesi, April, 2021

Doctorate, Doctorate, Atatürk Üniversitesi, March, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İzmir Yüksek Teknoloji Enstitüsü, January, 2021

Doctorate, Doctorate, Ege Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2020

Academic Staff Examination, Academic Staff Examination, Atatürk Üniversitesi, November, 2020

Academic Staff Examination, Academic Staff Examination, Atatürk Üniversitesi, November, 2020

Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, August, 2020

Doctorate, Doctorate, Atatürk Üniversitesi, July, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Koç Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, May, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erzurum Teknik Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Koç Üniversitesi, January, 2020

Post Graduate, DOĞRUDAN NaBH₄ YAKIT PİLİ İÇİN Pd-Co KATALİZÖRLERİN GELİŞTİRİLMESİ, KOCAELİ ÜNİVERSİTESİ, May, 2018

Post Graduate, Doğrudan Sodyum Borhidrür Yakıt Pilleri için Katyon Değişim Membranları Üretimi ve Karakterizasyonu, KOCAELİ ÜNİVERSİTESİ, May, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Compression performance of an electrochemical hydrogen compressor at low and high temperatures**
Aykut Y., AKAY R. G., BAYRAKÇEKEN YURTCAN A.
International Journal of Hydrogen Energy, vol.75, pp.222-228, 2024 (SCI-Expanded)
- II. **Carbon aerogel supported Ni-Fe catalysts for superior oxygen evolution reaction activity**
Asim M., Hussain A., Samanci M., Janjua N. K., BAYRAKÇEKEN YURTCAN A.
CARBON LETTERS, vol.34, no.6, pp.1779-1801, 2024 (SCI-Expanded)
- III. **Optimizing Oxygen Electrode Bifunctionality with Platinum and Nickel Nanoparticle-Decorated Nitrogen-Doped Binary Metal Oxides**
Mladenovic D., Aykut Y., BAYRAKÇEKEN YURTCAN A., POZAN SOYLU G. S., Santos D. M. F., Miljanic S., Sljukic B.
PROCESSES, vol.12, no.3, 2024 (SCI-Expanded)
- IV. **Graphene aerogels: part 2 - derived from commercial graphene and chemically reduced graphene oxide via supercritical carbon dioxide drying**
Samanci M., BAYRAKÇEKEN YURTCAN A.
Turkish Journal of Chemistry, vol.48, no.2, pp.299-328, 2024 (SCI-Expanded)
- V. **Graphene aerogels: part 1 - derived from graphene oxide and thermally reduced graphene oxide via supercritical carbon dioxide drying**
Samanci M., BAYRAKÇEKEN YURTCAN A.
Turkish Journal of Chemistry, vol.48, no.2, pp.251-280, 2024 (SCI-Expanded)
- VI. **Nanostructured electrocatalysts for low-temperature water splitting: A review**
Aykut Y., BAYRAKÇEKEN YURTCAN A.
Electrochimica Acta, vol.471, 2023 (SCI-Expanded)
- VII. **Transition metal oxides for bifunctional ORR/OER electrocatalysis in unitized regenerative fuel cells**
Mladenovic D., Mladenovic A., Santos D. M. F., BAYRAKÇEKEN YURTCAN A., Miljanic S., Mentus S., Sljukic B.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.946, 2023 (SCI-Expanded)
- VIII. **Electrooxidation of ammonia at high-efficiency RuO₂-ZnO/Al₂O₃ and PdO-ZnO/Al₂O₃ mesoporous catalysts; an innovative strategy towards clean fuel technology**
Khan S., Shah S. S., BAYRAKÇEKEN YURTCAN A., Bahajjaj A. A. A., Zafar A., Janjua N. K.
Fuel, vol.347, 2023 (SCI-Expanded)
- IX. **The role of the EHC system in the transition to a sustainable energy future: A review**
Aykut Y., BAYRAKÇEKEN YURTCAN A.
International Journal of Hydrogen Energy, vol.48, no.60, pp.23089-23109, 2023 (SCI-Expanded)
- X. **Highly Efficient Oxygen Electrode Obtained by Sequential Deposition of Transition Metal-Platinum Alloys on Graphene Nanoplatelets**
Mladenović D., Daş E., Santos D. M. F., BAYRAKÇEKEN YURTCAN A., Šljukić B.
Materials, vol.16, no.9, 2023 (SCI-Expanded)
- XI. **Alumina supported copper oxide nanoparticles (CuO/Al₂O₃) as high-performance electrocatalysts for hydrazine oxidation reaction**
Khan S., Shah S. S., Janjua N. K., BAYRAKÇEKEN YURTCAN A., Nazir M. T., Katubi K. M., Alsaiari N. S.
Chemosphere, vol.315, 2023 (SCI-Expanded)
- XII. **Carbon black-heteroatom-doped graphene aerogel hybrid supported platinum nanoparticles as electrocatalysts for oxidation of methanol and formic acid**

- Cogenli M. S., BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.24130-24147, 2022 (SCI-Expanded)
- XIII. **Platinum decorated on ZIF-8 based nitrogen-doped hierarchical porous carbon composites for PEM fuel cells**
Mohamud M. A., BAYRAKÇEKEN YURTCAN A.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.171, 2022 (SCI-Expanded)
- XIV. **The role of the Pd ratio in increasing the activity of Pt for high efficient hydrogen evolution reaction**
Aykut Y., Bayrakçeken Yurtcan A.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.921, 2022 (SCI-Expanded)
- XV. **Ruthenium and palladium oxide promoted zinc oxide nanoparticles: Efficient electrocatalysts for hydrazine oxidation reaction**
Khan S. f., Shah S. S., Ahmad A., BAYRAKÇEKEN YURTCAN A., Jabeen E., Alshgari R. A., Janjua N. K.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.917, 2022 (SCI-Expanded)
- XVI. **gamma-Alumina Supported Copper Oxide Nanostructures Promoted with Ruthenium Oxide (RuO₂-CuO/Al₂O₃) and Palladium Oxide (PdO-CuO/Al₂O₃): Efficient Electrodes for Heterogeneous Catalysis of Ammonia Electrooxidation**
Khan S., Shah S. S., Ahmad A., Bayrakçeken Yurtcan A., Katubi K. M., Janjua N. K.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.7, 2022 (SCI-Expanded)
- XVII. **Boosting oxygen electrode kinetics by addition of cost-effective transition metals (Ni, Fe, Cu) to platinum on graphene nanoplatelets**
Mladenović D., Daş E., Santos D. M., Bayrakçeken Yurtcan A., Miljanić Š., Šljukić B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.905, pp.164156-164167, 2022 (SCI-Expanded)
- XVIII. **Chemically and thermally reduced graphene oxide supported Pt catalysts prepared by supercritical deposition**
Samanci M., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.45, pp.19669-19689, 2022 (SCI-Expanded)
- XIX. **Catalyst development for viability of electrochemical hydrogen purifier and compressor (EHPC) technology**
Aykut Y., Bayrakçeken Yurtcan A.
International Journal Of Hydrogen Energy, vol.1, no.1, pp.1-14, 2022 (SCI-Expanded)
- XX. **Development of Novel Flow Fields for PEM Fuel Cells: Numerical Solution and Experimental Validation**
Geliş K., Şahin B., Bayrakçeken Yurtcan A.
Heat Transfer Research, vol.53, no.2, pp.29-44, 2022 (SCI-Expanded)
- XXI. **Modulation of the Shape of Platinum Nanoparticles by Using Different Oleylamine/Polyvinylpyrrolidone Amounts**
Öztürk A., Bayrakçeken Yurtcan A.
JOURNAL OF NANO RESEARCH, vol.73, pp.31-50, 2022 (SCI-Expanded)
- XXII. **Effect of solvent exchange on the properties of carbon xerogel and carbon xerogel/polypyrrole composites for supercapacitors**
Samanci M., Daş E., Bayrakçeken Yurtcan A.
CARBON LETTERS, vol.31, no.6, pp.1287-1308, 2021 (SCI-Expanded)
- XXIII. **Raw and pyrolyzed (with and without melamine) graphene nanoplatelets with different surface areas as PEM fuel cell catalyst supports**
Öztürk A., Bayrakçeken Yurtcan A.
CARBON LETTERS, vol.31, no.6, pp.1191-1214, 2021 (SCI-Expanded)
- XXIV. **Zeolitic imidazolate frameworks (ZIFs) derived porous carbon: A review from crystal growth & green synthesis to oxygen reduction reaction activity**
Mohamud M. A., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.68, pp.33782-33800, 2021 (SCI-Expanded)
- XXV. **Simultaneously deposited Pt-alloy nanoparticles over graphene nanoplatelets via supercritical**

carbon dioxide deposition for PEM fuel cells

DAŞ E., Gursel S. A., BAYRAKÇEKEN YURTCAN A.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.874, 2021 (SCI-Expanded)

- XXVI. **Remarkable activity of a ZnPdPt anode catalyst: Synthesis, characterization, and formic acid fuel cell performance**
Caglar A., Cogenli M. S., Yurtcan A., Alal O., Kivrak H.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.156, 2021 (SCI-Expanded)
- XXVII. **Electrocatalytical Application of Platinum Nanoparticles Supported on Reduced Graphene Oxide in PEM Fuel Cell: Effect of Reducing Agents of Dimethylformamide or Hydrazine Hydrate on the Properties**
Daş E., Öztürk A., Bayrakçeken Yurtcan A.
ELECTROANALYSIS, vol.33, no.7, pp.1721-1735, 2021 (SCI-Expanded)
- XXVIII. **Albedo parameters and effective atomic numbers of PEDOT/Carbon black composites**
Yılmaz D., Bayrakçeken Yurtcan A., Özer T. Ö., Memioğlu F.
Radiation Physics and Chemistry, vol.182, 2021 (SCI-Expanded)
- XXIX. **A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction**
Milikic J., Martins M., Dobrota A. S., Bozkurt G., Soyly G. S. P., Bayrakçeken Yurtcan A., Skorodumova N. V., Pasti I. A., Sljukic B., Santos D. M. F.
JOURNAL OF ENERGY CHEMISTRY, vol.55, pp.428-436, 2021 (SCI-Expanded)
- XXX. **Preparation and characterization of melamine-lead nitrogen-doped carbon blacks at different pyrolysis temperatures**
Öztürk A., Bayrakçeken Yurtcan A.
JOURNAL OF SOLID STATE CHEMISTRY, vol.296, 2021 (SCI-Expanded)
- XXXI. **Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications**
Mladenović D., Santos D. M., Bozkurt G., Soyly G. S., Yurtcan A., Miljanić Š., Šljukić B.
Electrochemistry Communications, vol.124, 2021 (SCI-Expanded)
- XXXII. **Platinum/graphene nanoplatelets/silicone rubber composites as polymer electrolyte membrane fuel cell catalysts**
Öztürk A., Özçelik N., Bayrakçeken Yurtcan A.
MATERIALS CHEMISTRY AND PHYSICS, vol.260, 2021 (SCI-Expanded)
- XXXIII. **Carbon aerogel and their polypyrrole composites used as capacitive materials**
Samanci M., Daş E., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.2, pp.1729-1747, 2021 (SCI-Expanded)
- XXXIV. **Utilization of the graphene aerogel as PEM fuel cell catalyst support: Effect of polypyrrole (PPy) and polydimethylsiloxane (PDMS) addition**
Öner E., Öztürk A., Bayrakçeken Yurtcan A.
International Journal of Hydrogen Energy, vol.45, no.60, pp.34818-34836, 2020 (SCI-Expanded)
- XXXV. **Pt-alloy decorated graphene as an efficient electrocatalyst for PEM fuel cell reactions**
Daş E., Gursel S. A., Yurtcan A.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.165, 2020 (SCI-Expanded)
- XXXVI. **Investigation of synergetic effect of PDMS polymer hydrophobicity and polystyrene-silica particles roughness in the content of microporous layer on water management in PEM fuel cell**
Öztürk A., Bayrakçeken Yurtcan A.
APPLIED SURFACE SCIENCE, vol.511, 2020 (SCI-Expanded)
- XXXVII. **Effective carbon nanotube supported metal (M=Au, Ag, Co, Mn, Ni, V, Zn) core Pd shell bimetallic anode catalysts for formic acid fuel cells**
Caglar A., Cogenli M. S., Yurtcan A., Kivrak H.
RENEWABLE ENERGY, vol.150, pp.78-90, 2020 (SCI-Expanded)
- XXXVIII. **Evaluation of Low and High Surface Area TiO₂ and Al₂O₃ Metal Oxides-Carbon Hybrids in Terms of Polymer Electrolyte Membrane Fuel Cell Catalyst Support**

- Çelik M. K., Öztürk A., Çögenli M. S., Bayrakçeken Yurtcan A.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.20, pp.1189-1208, 2020 (SCI-Expanded)
- XXXIX. **Water management improvement in PEM fuel cells via addition of PDMS or APTES polymers to the catalyst layer**
Ungan H., Bayrakçeken Yurtcan A.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.5, pp.1227-1243, 2020 (SCI-Expanded)
- XL. **Heteroatom doped 3D graphene aerogel supported catalysts for formic acid and methanol oxidation**
Cogenli M. S., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.1, pp.650-666, 2020 (SCI-Expanded)
- XLI. **Preparation of different thin film catalysts by direct current magnetron sputtering for hydrogen generation**
Bozkurt G., Özer A., Bayrakçeken Yurtcan A.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.5, pp.1327-1338, 2020 (SCI-Expanded)
- XLII. **Synthesis and characterization of Co, Zn, Mn, V modified Pd formic acid fuel cell anode catalysts**
Caglar A., Ulaş B., Cogenli M. S., Yurtcan A., Kivrak H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.850, 2019 (SCI-Expanded)
- XLIII. **Drug loading with supercritical carbon dioxide deposition on different silica derivatives: Carvedilol study**
Özçelik N., Yurtcan A.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.53, 2019 (SCI-Expanded)
- XLIV. **Graphene nanoplatelets-carbon black hybrids as an efficient catalyst support for Pt nanoparticles for polymer electrolyte membrane fuel cells**
Daş E., Kaplan B. Y., Gursel S. A., Yurtcan A.
RENEWABLE ENERGY, vol.139, pp.1099-1110, 2019 (SCI-Expanded)
- XLV. **Development of effective catalysts for hydrogen generation from sodium borohydride: Ru, Pt, Pd nanoparticles supported on Co₃O₄**
Bozkurt G., Özer A., Yurtcan A.
ENERGY, vol.180, pp.702-713, 2019 (SCI-Expanded)
- XLVI. **PEMFC catalyst layer modification with the addition of different amounts of PDMS polymer in order to improve water management**
Ungan H., Yurtcan A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.11, pp.5946-5958, 2019 (SCI-Expanded)
- XLVII. **Electrical investigation of Al/PEDOT/C/p-Si structure**
Kaya F. S., Ozer T., Turgut G., Yurtcan A., Duman S.
RESULTS IN PHYSICS, vol.13, 2019 (SCI-Expanded)
- XLVIII. **Mn₂O₃-MO (MO = ZrO₂, V₂O₅, WO₃) supported PtNi nanoparticles: Designing stable and efficient electrocatalysts for oxygen reduction and borohydride oxidation**
Martins M., Milikic J., Sljukic B., Soyly G. S. P., Yurtcan A., Bozkurt G., Santos D. M. F.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.273, pp.286-293, 2019 (SCI-Expanded)
- XLIX. **Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells**
Oliveira R. C. P., Milikic J., Daş E., Yurtcan A., Santos D. M. F., Sljukic B.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.238, pp.454-464, 2018 (SCI-Expanded)
- L. **Hydrogen generation from sodium borohydride with Ni and Co based catalysts supported on Co₃O₄**
Bozkurt G., Özer A., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.49, pp.22205-22214, 2018 (SCI-Expanded)
- LI. **A complementary study on novel PdAuCo catalysts: Synthesis, characterization, direct formic acid fuel cell application, and exergy analysis**
Kivrak H., Atbas D., Alal O., Çögenli M. S., Bayrakçeken A., Mert S. O., Sahin O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.48, pp.21886-21898, 2018 (SCI-Expanded)
- LII. **Chemically synthesized reduced graphene oxide-carbon black based hybrid catalysts for PEM fuel cells**

- Bayrakçeken Yurtcan A., Daş E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.40, pp.18691-18701, 2018 (SCI-Expanded)
- LIII. **Synthesis of polypyrrole (PPy) based porous N-doped carbon nanotubes (N-CNTs) as catalyst support for PEM fuel cells**
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MOHAMUD M. A., BAYRAKÇEKEN YURTCAN A.
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- XIV. **Ni@Pt/C Two Layer PEM Fuel Cell Electrocatalyst Preparation via Magnetron Sputtering Method**
Kurtuluş S., BAYRAKÇEKEN YURTCAN A.
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Kurtuluş S., BAYRAKÇEKEN YURTCAN A.
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- XVI. **Synthesis of Platinum Nanocrystals in Different Shapes Assisted by Various Reductant Concentration and Utilization as PEM Fuel Cell Catalyst**
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Öner E., Öztürk A., Bayrakçeken Yurtcan A.
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- XXI. **Effect of Hydrophobic PDMS-OH/CTAB Catalyst Layer Coating on Water Management in PEM Fuel Cell**
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- XXV. **Fuel Cell Materials**
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- XXVI. **Investigation of Structural Changes with the Addition of Graphene to Carbon Aerogel**
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- XXVIII. **Synthesis and Characterization of Graphene Aerogel and Graphene Aerogel/Polypyrrole Support Materials for PEMFuel Cells**
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- XXIX. **Improvement water management in PEM fuel cell by using microporous layer with PDMS polymer and polystyrene-silica nanoparticles**

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- XXXI. **Karbon Aerojel ve Kserojel Yapılarına Polipirol Eklenmesi ile Hazırlanan Kompozitlerin Kapasitif Özelliklerinin Değişimi**
Samancı M., DAŞ E., Bayrakceken Yurtcan A.
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2018, pp.64-68
- XXXII. **Destekli Katalizörlerin Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., Alkan Gursel S., Bayrakceken Yurtcan A.
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- XXXIII. **Farklı Por Çaplarındaki Karbon Aerojellerin Sentezi, Karakterizasyonu Ve Kapasitif Özelliklerinin İncelenmesi**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XXXIV. **Kserojel Yapılarının Özelliklerine Farklı Kurutma Koşullarının Etkileri**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XXXV. **PEM Yakıt Pilleri için Yeni Hidrofobik Yüzeyler**
YILMAZ H., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XXXVI. **Karbon Aerojel Ve Kserojel Yapılarına Polipirol Eklenmesi İle Hazırlanan Kompozitlerin Kapasitif Özelliklerinin Değişimi,**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XXXVII. **Destekli Katalizör Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., ALKAN GÜRSEL S., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
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YILMAZ H., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
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SAMANCI M., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XL. **Destekli Katalizör Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., ALKAN GÜRSEL S., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- XLI. **3D Grafen Sentezi, Karakterizasyonu ve PEM Yakıt Pillerinde Kullanımı**
Öner E., Öztürk A., Bayrakçeken Yurtcan A.
13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7048-7052
- XLII. **Graphene: A Promising Catalyst Support for Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells**
YARAR KAPLAN B., JAMİL E., GHOBADİ S., HAGHMORADİ N., ABDOLHOSSEİNZADEH S., FAİSAL JAMİL M., BİÇER E., DAŞ E., Bayrakçeken Yurtcan A., ALKAN GURSEL S.
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- XLIV. Utilization of Functionalized Multiwalled Carbon Nanotubes with Polypyrrole, Polyvinylpyrrolidone and Polydimethylsiloxane in Microporous Layer for PEM Fuel Cell**
Öztürk A., Bayrakçeken Yurtcan A.
13th Nanoscience Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017, pp.400
- XLV. Preparation of nitrogen doped graphene aerogel and carbon support materials and catalytic activities towards formic acid oxidation**
ÇÖGENLİ M. S., ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XLVI. Durability Investigation of Graphene Supported Bimetallic Catalysts for PEM Fuel Cell Applications**
DAŞ E., ALKAN GÜRSEL S., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- XLVII. Supercritical carbon dioxide deposition as a promising catalyst preparation method for PEM fuel cell electrocatalysts**
BAYRAKÇEKEN YURTCAN A., DAŞ E., ALKAN GÜRSEL S.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- XLVIII. Synthesis of Polypyrrole (PPy) based Porous N-Doped Carbon Nanotubes (N-CNTs) as Catalyst Support for PEM Fuel Cells**
Öztürk A., Bayrakçeken Yurtcan A.
2nd International Symposium on Materials for Energy Storage & Conversion, Nevşehir, Turkey, 26 - 28 September 2017, vol.1, pp.20
- XLIX. Synthesis and Characterization of Bimetallic Catalysts for PEM Fuel Cells**
DAŞ E., ALKAN GÜRSEL S., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- L. Preparation of nitrogen doped graphene aerogel and carbon support materials and catalytic activities towards formic acid oxidation**
ÇÖGENLİ M. S., ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- LI. Chemically Synthesized Reduced Graphene Oxide-Carbon Black based Hybrid Catalysts for PEM Fuel Cells**
DAŞ E., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- LII. Utilization of Different Surface Area Graphenes as Catalyst Support and PDMS Polymer as Catalyst Binder in PEM Fuel Cell**
Öztürk A., Özçelik N., Bayrakçeken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017, vol.1, pp.71
- LIII. The effect of nitrogen doping amount on the activity of commercial electrocatalyst used in PEM fuel cells**
ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.
2nd International Symposium on Materials for Energy Storage and Conversion, Nevşehir, Turkey, 26 - 28 September 2017
- LIV. Synthesis and Characterization of Bimetallic Catalysts for PEM Fuel Cells**
DAŞ E., ALKAN GÜRSEL S., Bayrakceken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- LV. Durability Investigation of Graphene Supported Bimetallic Catalysts for PEM Fuel Cell Applications**
DAŞ E., ALKAN GÜRSEL S., Bayrakceken Yurtcan A.

- 2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- LVI. **Supercritical Carbon Dioxide Deposition as a Promising Catalyst Preparation Method for PEM Fuel Cell Electrocatalysts**
Bayrakceken Yurtcan A., DAŞ E., ALKAN GURSEL S.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- LVII. **Chemically Synthesized Reduced Graphene Oxide-Carbon Black based Hybrid Catalysts for PEM Fuel Cells**
DAŞ E., Bayrakceken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 September 2017 - 28 September 2018
- LVIII. **Nitrogen Doped Graphene Aerogel Supported Platinum Catalysts for Methanol Electrooxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
4th Anatolian School of Catalysis, 11 - 14 September 2017
- LIX. **Preparation of Boron-doped Graphene Aerogel and Catalytic Activity towards Formic Acid Oxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
4th Anatolian School of Catalysis, 11 - 14 September 2017
- LX. **Investigation of PEM Fuel Cell Performance of TiO₂-Carbon Composite Supported Pt Catalyst**
Çelik M. K., Öztürk A., Çögenli M. S., Bayrakceken Yurtcan A.
4th Anatolian School of Catalysis, İzmir, Turkey, 11 - 14 September 2017, vol.1, pp.110-111
- LXI. **Synthesis and Characterization of Ir_xRu_{1-x}O₂ Catalysts for the Oxygen Evolution Reactions**
KAYA M. F., KAYATAŞ DEMİR N., BAYRAKÇEKEN YURTCAN A.
International Hydrogen Technologies Congress (IHTEC-2017), Adana, Turkey, 15 - 18 March 2017, pp.1-2
- LXII. **Graphene Aerogel Supported Platinum Catalysts for Formic Acid Electrooxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- LXIII. **Catalytic activity of PtRu/C, PtPd/C and PtSn/C bimetallic catalysts toward methanol oxidation reaction**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
The Second International Hydrogen Technologies Congress (IHTEC-2017), 15 - 18 March 2017
- LXIV. **Utilization of N-Doped Carbon Materials Obtained from ZIF as Catalyst Support for PEM Fuel Cell**
Özçelik N., Öztürk A., Bozkurt G., Çögenli M. S., Bayrakceken Yurtcan A.
2nd International Hydrogen Technologies Congress (IHTEC 2017), Adana, Turkey, 15 - 18 March 2017, pp.138
- LXV. **Development of Various Metal Catalysts on Co₃O₄ Support Material for H₂ Production from NaBH₄**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016
- LXVI. **Carbon Supported Pt Pd Pt Sn and Pt Ru Electrocatalysts for Formic Acid Oxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
1st International Mediterranean Science and Engineering Congress (IMSEC), 26 - 28 October 2016
- LXVII. **Carbon supported PtPd PtSn and PtRu electrocatalysts for formic acid oxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016
- LXVIII. **Development of Various Metal Catalysts on Co₃O₄ Support Material for H₂ Production from NaBH₄**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
1st International Mediterranean Science and Engineering Congress (IMSEC), 26 - 28 October 2016
- LXIX. **Facilitation of Water Management in PEM Fuel Cell by Creating Hydrophobic Micro Porous Layer with Polytetrafluoroethylene (PTFE) and Fluorinated Ethylene Propylene (FEP) Polymers**
Öztürk A., Bayrakceken Yurtcan A.
IMSEC 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, pp.3908
- LXX. **Facilitation of Water Management in PEM Fuel Cell by Creating Hydrophobic Micro Porous Layer with Polytetrafluoroethylene (PTFE) and Fluorinated Ethylene Propylene (FEP) Polymers**

ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.

IMSEC 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, pp.3908

- LXXI. **Pt Ni decorated metal oxide electrodes for borohydride fuel cells**
MARTINS M., SLJUKIC B., Sequeira C., POZAN SOYLU G. S., BAYRAKÇEKEN YURTCAN A., BOZKURT G., ŞENER T., SANTOS D. M.
229th Meeting of The Electrochemical Society, Symposium "Heterogeneous functional materials for energy conversion and storage", 29 May - 02 June 2016, vol.72, pp.57-64
- LXXII. **PPy/C Destekli Pt Elektrokatalizörlerin ORR Aktivitelerinin İncelenmesi**
DAŞ E., Bayrakceken Yurtcan A.
IV. Uygulamalı Elektrokimya Lisansüstü Yaz okulu ve Çalıştay, Turkey, 24 - 27 May 2016
- LXXIII. **Oxygen reduction and oxygen evolution reaction performances of PtNi CuO catalyst for lithium air batteries**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
NCC6- 6th Catalysis Conference, 27 - 30 April 2016
- LXXIV. **Preparation of Ni Catalyst on Co₃O₄ Support Material for H₂ Production**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
NCC6- 6th Catalysis Conference, 27 - 30 April 2016
- LXXV. **Low Platinum Loading Electrode for Formic Acid Fuel Cell**
ÇÖGENLİ M. S., MUKERJEE S., BAYRAKÇEKEN YURTCAN A.
NCC6- 6th Catalysis Conference, 27 - 30 April 2016
- LXXVI. **The preparation of Pt catalyst supported on MCM 41 with high surface area and its catalytic activity for formic acid oxidation**
ÖZÇELİK N., ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
NCC6- 6th Catalysis Conference, 27 - 30 April 2016
- LXXVII. **Pt Catalyst Supported on Bi₂O₃ for Direct Formic Acid Fuel Cells**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
NCC6- 6th Catalysis Conference, 27 - 30 April 2016
- LXXVIII. **Low Platinum Loading Electrode for Formic Acid Fuel Cell Prepared by Ion-Beam Assisted Deposition**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
6th Catalysts Conference (NCC6), Bursa, Turkey, 27 - 30 April 2016, pp.1
- LXXIX. **Low Platinum Loading Electrode for Formic Acid Fuel Cell Prepared by Ion-Beam Assisted Deposition**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
6th Catalysts Conference (NCC6), Bursa, Turkey, 27 - 30 April 2016, pp.1
- LXXX. **Carbon Black-Graphene Hybrid Support Materials For PEM Fuel Cell Electrocatalysts**
DAŞ E., ALKAN GURSEL S., İSİKEL SANLI L., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, 27 - 30 March 2016
- LXXXI. **PtCu/C Bimetallic Catalysts For PEM Fuel Cells**
Öztürk A., Daş E., Bozkurt G., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, Bursa, Turkey, 27 - 30 March 2016, pp.96
- LXXXII. **Electrochemical Behaviour of Hybrid Nanostructured Materials For PEM Fuel Cell Electrocatalysts**
DAŞ E., ALKAN GURSEL S., İSİKEL SANLI L., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, 27 - 30 March 2016
- LXXXIII. **Reduced Graphene Oxide (rGO) Supported Pt Nanoparticles : Effect of Different Reducing Agents on rGO**
Daş E., Öztürk A., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, Bursa, Turkey, 27 March - 30 April 2016, pp.44
- LXXXIV. **Different Reactant Assisted Synthesis of Nano CuO for H₂O₂ Electrochemical Sensor**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.

IPCAP2016, 25 - 27 February 2016

- LXXXV. **Different Reactant Assisted Synthesis of Nano CuO for H₂O₂ Electrochemical Sensor**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
1st International Physics Conference at the Anatolian Peak (IPCAP2016), 25 - 27 February 2016
- LXXXVI. **Electrode Prepared By Supercritical Carbon Dioxide Deposition Technique For PEM Fuel Cell**
DAŞ E., BAYRAKÇEKEN YURTCAN A.
1st International Physics Conference at the Anatolian Peak (IPCAP2016), 25 - 27 February 2016
- LXXXVII. **Electrode Prepared By Supercritical Carbon Dioxide Deposition Technique For PEM Fuel Cell**
DAŞ E., Bayrakceken Yurtcan A.
International Physics Conference, 25 - 27 February 2016
- LXXXVIII. **Reduced Graphene Oxide Synthesis Followed by Two Different Reduction Routes as Support Material for PEM Fuel Cell Electrocatalysts**
DAŞ E., Bayrakceken Yurtcan A.
4th Nano Today Conference, 6 - 10 December 2015
- LXXXIX. **Reduced Graphene Oxide Supported Pt Nanoparticles**
DAŞ E., Bayrakceken Yurtcan A.
4th Nano Today Conference, 6 - 10 December 2015
- XC. **Synthesis of CuO/GO Nanocomposites as Electrode Materials for Supercapacitors**
BOZKURT G., DAŞ E., Bayrakceken Yurtcan A., ÖZER A.
4th Nano Today Conference, 6 - 10 December 2015
- XCI. **Sputter Deposited Au Pd Bimetallic Catalysts for Direct Formic Acid Fuel Cells**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
International Symposium on Materials for Energy Storage and Conversion(mESC-IS 2015), 7 - 09 September 2015
- XCII. **Pt Bi₂O₃ Catalysts for Rechargeable Lithium Air Batteries**
ÇÖGENLİ M. S., TANSEL Ş., DİNO T., BAYRAKÇEKEN YURTCAN A.
International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2015), 7 - 09 September 2015
- XCIII. **Superhydrophobic polydimethylsiloxane/silica coating for micro porous layer of PEM fuel cell and effects of calcination temperature on the wetting behavior**
ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
mESC-IS 1st International Symposium on Materials for Energy Storage & Conversion, Ankara, Turkey, 7 - 09 September 2015, vol.1, pp.108
- XCIV. **Utilization of polystyrene/SiO₂ core-shell particles covered with PDMS as superhydrophobic material in MPL of PEM fuel cells**
Öztürk A., Bayrakçeken Yurtcan A.
mESC-IS 1st International Symposium on Materials for Energy Storage & Conversion, Ankara, Turkey, 7 - 09 September 2015, vol.1, pp.107
- XCV. **Utilization of polystyrene/SiO₂ core-shell particles covered with PDMS as superhydrophobic material in MPL of PEM fuel cells**
ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
mESC-IS 1st International Symposium on Materials for Energy Storage & Conversion, Ankara, Turkey, 7 - 09 September 2015, vol.1, pp.107
- XCVI. **Superhydrophobic polydimethylsiloxane/silica coating for micro porous layer of PEM fuel cell and effects of calcination temperature on the wetting behavior**
Öztürk A., Bayrakçeken Yurtcan A.
mESC-IS 1st International Symposium on Materials for Energy Storage & Conversion, Ankara, Turkey, 7 - 09 September 2015, vol.1, pp.108
- XCVII. **CuO/Graphene Oxide Nanocomposite for Supercapacitors**
BOZKURT G., DAŞ E., Bayrakceken Yurtcan A., ÖZER A.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XCVIII. **Image acquisition in Scanning Electron Microscope Using Drift Correction**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.

22. Elektron Mikroskopi Kongresi (EMK 2015), Turkey, 2 - 04 September 2015
- XCIX. **Capacitive Energy Storage with Carbon Aerogel, Carbon Xerogel and Their Polypyrrole Composites**
SAMANCI M., DAŞ E., Bayrakceken Yurtcan A.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- C. **Comparison of Two Different Catalyst Preparation Methods for Graphene Nanoplatelet Supported Platinum Catalysts**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- CI. **Preparation of Graphene Nanoplatelet Supported Platinum Catalysts by Supercritical Carbon Dioxide Deposition**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- CII. **There s A Different World At The Bottom**
ÇÖGENLİ M. S., YEŞİM H., BAYRAKÇEKEN YURTCAN A.
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- CIII. **Experimental and modeling studies on the effect of inclusion of hydrophobic nanoparticles in cathode microporous and catalyst layer for enhanced water management in PEMFCs**
Avcıoğlu S. G., Öztürk A., Fıçıcılar B., Bayrakceken Yurtcan A., Kincal S., Eroğlu İ.
20 th World Hydrogen Energy Conference (WHEC 2014), Gwangju, South Korea, 15 - 20 June 2014, vol.2, pp.1247-1255
- CIV. **Graphene Nanoplatelets Supported Pt Electrocatalysts**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
2nd Global Conference on Energy, Soil, Water, Air and Environment, 11 - 13 December 2014
- CV. **Effect of hydrophobic nanoparticles in cathode catalyst layer on PEM fuel cell performance**
AVCIOĞLU S. G., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
Turkish-German Conference on Energy Technologies, Ankara, Turkey, 13 - 15 October 2014, pp.1-5
- CVI. **3 kW proton değişim membran yakıt pili sistemi başlangıç test protokollerinin geliştirilmesi**
SAYGILI Y., DEVRİM Y., BAYRAKÇEKEN YURTCAN A., DEVRİM H., KINCAL S., BAÇ N., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 11, Eskişehir, Turkey, 2 - 05 September 2014, pp.1-5
- CVII. **3 kW proton değişim membran yakıt pili sistemi başlangıç test protokollerinin geliştirilmesi**
SAYGILI Y., DEVRİM Y., BAYRAKÇEKEN YURTCAN A., DEVRİM H., KINCAL S., BAÇ N., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 11, Eskişehir, Turkey, 2 - 05 September 2014, pp.1-5
- CVIII. **PEM Yakıt Pillerinde Su ve Isı Yönetiminin İyileştirilmesi için Hidrofobik Nanoparçacıklar ile Yüksek Performanslı ve Dayanıklı Yakıt Pili Bileşenlerinin Geliştirilmesi**
Öztürk A., Fıçıcılar B., Eroğlu İ., Bayrakceken Yurtcan A.
UKMK-11 11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, vol.1, pp.1
- CIX. **PEM yakıt pilleri için PPy/C destekli Pt katalizörlerin mikrodalga yöntemi ile sentezi ve karakterizasyonu**
DAŞ E., Bayrakceken Yurtcan A.
11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 2 - 05 September 2014
- CX. **Karbon Aerojel ve Karbon Kserojel Sentezi ve Karakterizasyonu**
SAMANCI M., DAŞ E., Bayrakceken Yurtcan A.
11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 2 - 05 September 2014
- CXI. **Effect of Electrode Preparation Methods on PEMFC Performance**
ÇÖGENLİ M. S., SANJEEV M., BAYRAKÇEKEN YURTCAN A.
10. Nanoscience and Nanotechnology Conference (NanoTR10), Turkey, 17 - 21 June 2014
- CXII. **Durability of PtCo C alloys for PEM fuel cell cathode electrode**
ÇÖGENLİ M. S., MUKERJEE S., BAYRAKÇEKEN YURTCAN A.
10. Nanoscience and Nanotechnology Conference (NanoTR10), Turkey, 17 - 21 June 2014
- CXIII. **Preparation and characterization of carbon based polypyrrole nanocomposites**
DEHGHANPOUR H., BAYRAKÇEKEN YURTCAN A.

- 10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXIV. **Supported nanoparticles for proton Exchange membrane fuel cells**
BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXV. **Effect of different surfactants on the structure of nano CuO**
Bozkurt G., ÖZER A., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXVI. **Surfactant assisted synthesis and characterization of nickel borate by hydrothermal synthesis**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXVII. **Surfactant assisted synthesis and characterization of nickel borate by hydrothermal synthesis**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXVIII. **Effect of hydrophilic organic and inorganic materials addition to catalyst layer of PEM fuel cell on water management**
ÖZTÜRK A., Özçelik N., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXIX. **Effect of hydrophilic inorganic and organic material addition to catalyst layer of PEM fuel cell on water management**
ÖZTÜRK A., ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.
NANOTR-13 13th Nanoscience Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, vol.1, pp.223
- CXX. **Preparation and characterization of carbon based polypyrrole nanocomposites**
DEHGHANPOUR H., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXXI. **Supported nanoparticles for proton Exchange membrane fuel cells**
BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXXII. **Effect of hydrophilic Organic and Inorganic Material Addition to Catalyst Layer of PEM Fuel Cell on Water Management**
Öztürk A., Özçelik N., Bayrakçeken Yurtcan A.
NANOTR-10 10th Nanoscience & Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, vol.1, pp.223
- CXXIII. **Effect of different surfactants on the structure of nano CuO**
Bozkurt G., ÖZER A., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXXIV. **Effect of Microwave Duration on the Synthesis of PPy:C Supported Pt Catalysts via Microwave Irradiation Technique**
DAŞ E., Bayrakceken Yurtcan A.
10th Nanoscience and Nanotechnology Conference, 17 - 21 June 2014
- CXXV. **Experimental and modeling studies on the effect of inclusion of hydrophobic nanoparticles to catalyst layer for enhanced water management in PEMFCs**
AVCIOĞLU S. G., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
20th World Hydrogen Energy Conference, Gwangju, South Korea, 15 - 20 June 2014, pp.1-5
- CXXVI. **Experimental and modeling studies on the effect of inclusion of hydrophobic nanoparticles to catalyst layer for enhanced water management in PEMFCs**
AVCIOĞLU S. G., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
20th World Hydrogen Energy Conference, Gwangju, South Korea, 15 - 20 June 2014, pp.1-5
- CXXVII. **Effect of hydrophobic nanoparticles in cathode catalyst layer on PEM fuel cell performance**
AVCIOĞLU S. G., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
20th World Hydrogen Energy Conference, Gwangju, South Korea, 15 - 20 June 2014, pp.1-5
- CXXVIII. **Electrocatalytic Activity of Platinum/Pedot:Carbon Electrocatalysts for PEM Fuel Cells**
DAŞ E., Bayrakceken Yurtcan A.

- 10th Nanoscience and Nanotechnology Conference, 17 - 21 June 2014
- CXXXIX. **Microwave Irradiation Technique Used for Catalyst Preparation**
Bayrakceken Yurtcan A., DAŞ E., BOZKURT G., MEMİOĞLU F.
11th European Congress on Catalysis- EuropaCat-XI, 1 - 06 September 2013
- CXXX. **Conducting Polymer/Carbon Composite Supported Platinum Catalysts Prepared by Supercritical Carbon Dioxide Deposition**
BAYRAKÇEKEN YURTCAN A., DAŞ E., BOZKURT G., MEMİOĞLU F.
XIth European Congress on Catalysis (Europacat XI), Lyon, France, 1 - 06 September 2013, pp.1
- CXXXI. **Conducting Polymer/Carbon Composite Supported Platinum Catalysts Prepared by Supercritical Carbon Dioxide Deposition**
BAYRAKÇEKEN YURTCAN A., DAŞ E., BOZKURT G., MEMİOĞLU F.
XIth European Congress on Catalysis (Europacat XI), Lyon, France, 1 - 06 September 2013, pp.1
- CXXXII. **Polypyrrole/Carbon Supported Platinum Catalysts For PEM Fuel Cells**
Bayrakceken Yurtcan A., DAŞ E., BOZKURT G., MEMİOĞLU F.
The Sixth International Exergy-Energy And Environment Symposium, 1 - 04 July 2013, pp.716-720
- CXXXIII. **Capacitive properties of polypyrrole carbon nanotube composites**
BAYRAKÇEKEN YURTCAN A., BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A.
The Sixth International Exergy, Energy and Environment Symposium, 1 - 04 July 2013
- CXXXIV. **Sputtered Cathode Electrode with Low Pt Loading for High Performance PEM Fuel Cell**
ÇÖGENLİ M. S., ERTUĞRUL M., BAYRAKÇEKEN YURTCAN A.
9th Nanoscience and Nanotechnology Conference (NanoTR-9), Turkey, 24 - 28 June 2013
- CXXXV. **Synthesis of radial wrinkled silica nanospheres**
KAYA H., ÇAYIRLIOĞLU A., GÜNAY M., BEYAZDAĞ S., BAYRAKÇEKEN YURTCAN A.
9th Nanoscience and Nanotechnology Conference-2013, Erzurum, Turkey, 24 - 28 June 2013, pp.1
- CXXXVI. **Engineering of PEM fuel cell catalyst layer with hydrophobic nanoparticles**
AVCIOĞLU S. G., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
9th Nanoscience and Nanotechnology Conference-2013, Erzurum, Turkey, 24 - 28 June 2013, pp.1
- CXXXVII. **Pt nanoparticles over carbon/PEDOT composites prepared by supercritical carbon dioxide deposition**
Bozkurt G., MEMİOĞLU F., BAYRAKÇEKEN YURTCAN A.
9th Nanoscience and Nanotechnology Conference-2013, Erzurum, Turkey, 24 - 28 June 2013, pp.1
- CXXXVIII. **Pt nanoparticles over carbon/PEDOT composites prepared by supercritical carbon dioxide deposition**
Bozkurt G., MEMİOĞLU F., BAYRAKÇEKEN YURTCAN A.
9th Nanoscience and Nanotechnology Conference-2013, Erzurum, Turkey, 24 - 28 June 2013, pp.1
- CXXXIX. **Synthesis of CuO at nanoscale**
Bozkurt G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
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BAYRAKÇEKEN YURTCAN A., TUBITAK Project, Carvedilol/Silika Yapılarının Süperkritik Karbondioksit Depozisyonu Yöntemi İle Sentezi ve Karakterizasyonu, 2015 - 2016

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, Geçiş metali çekirdeği üzerinde (Au, Ti, V, Mn, Fe, Co, Ni, Zn) Pd kabuklandırılması ile çok metalli çekirdek/kabuk katalizörlerinin nano tasarım ile sentezi, karakterizasyonu ve DFAYP uygulamaları, 2014 - 2016

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, PEM yakıt pillerinde su ve ısı yönetiminin iyileştirilmesi için hidrofobik nanoparçacıklar ile yüksek performanslı ve dayanıklı yakıt pili bileşenlerinin geliştirilmesi, 2013 - 2016

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, Farklı Yapılardaki Karbon Aerojellerin Sentezi ve Karakterizasyonu, 2013 - 2014

ÖZNÜLÜER ÖZER T., BAYRAKÇEKEN YURTCAN A., TUBITAK Project, PEM yakıt pilleri için süperkritik karbondioksit depozisyon yöntemi ile iletken polimer destekli katot katalizörü hazırlanması, 2010 - 2012

BAYRAKÇEKEN YURTCAN A., Project Supported by Other Official Institutions, Development of a 3 kW Fuel Cell System, 2010 - 2012

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, PEM yakıt pilleri için kompozit membranlar ve elektrokatalizörlerin geliştirilmesi ve uzun dönem performanslarının belirlenmesi, 2009 - 2012

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, Yüksek Sıcaklıkta Çalışabilen Proton Değişim Zarlı Yakıt Hücresi Geliştirilmesi, 2005 - 2008

BAYRAKÇEKEN YURTCAN A., Project Supported by Other Official Institutions, Hidrojen Gazı Üretimi, Depolanması ve Yakıt Hücrelerinde Elektrik Elde Edilmesi, 2005 - 2008

Activities in Scientific Journals

Brillant Engineering, Committee Member, 2019 - Continues

Memberships / Tasks in Scientific Organizations

Genç Akademi Üyesi, Member, 2017 - Continues, Turkey

HİDROJEN TEKNOLOJİLERİ DERNEĞİ, Member, 2015 - Continues

TÜRK KATALİZ DERNEĞİ, Member, 2006 - Continues

Scientific Refereeing

NANOSCALE, Journal Indexed in SCI-E, February 2022

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, Journal Indexed in SCI-E, January 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2022

ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, January 2022

JOURNAL OF POWER SOURCES, SCI Journal, May 2021

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, SCI Journal, April 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2021

JOURNAL OF POWER SOURCES, SCI Journal, February 2021

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, January 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, December 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2020
TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, November 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, September 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2020
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, August 2020
SCIENTIFIC REPORTS, SCI Journal, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2020
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TÜBİTAK, Turkey, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2020
JOURNAL OF COMPOSITE MATERIALS, Journal Indexed in SCI-E, June 2020
TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, June 2020
International Journal Of Hydrogen Energy, SCI Journal, May 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, May 2020
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, May 2020
NEW JOURNAL OF CHEMISTRY, SCI Journal, April 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, April 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, April 2020
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, April 2020
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, April 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, SCI Journal, March 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2020
International Journal Of Hydrogen Energy, SCI Journal, February 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2020
ACS APPLIED ENERGY MATERIALS, SCI Journal, January 2020
Fuel cells, SCI Journal, September 2019
International Journal of Hydrogen Energy, SCI Journal, August 2019
Fuel cells, SCI Journal, August 2019
International Journal of Hydrogen Energy, SCI Journal, July 2019
International Journal of Hydrogen Energy, SCI Journal, July 2019
International Journal of Hydrogen Energy, SCI Journal, April 2019
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, March 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2018
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2018
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, May 2018
ELECTROCHIMICA ACTA, SCI Journal, April 2018
Journal of The Institute of Science and Technology, Other journals, March 2018
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2018
JOURNAL OF POWER SOURCES, SCI Journal, March 2017
JOURNAL OF POWER SOURCES, SCI Journal, March 2017
JOURNAL OF POWER SOURCES, SCI Journal, December 2016
JOURNAL OF POWER SOURCES, SCI Journal, October 2016

JOURNAL OF POWER SOURCES, SCI Journal, June 2016
JOURNAL OF POWER SOURCES, SCI Journal, May 2016
JOURNAL OF POWER SOURCES, SCI Journal, June 2015
APPLIED SURFACE SCIENCE, SCI Journal, March 2014
APPLIED SURFACE SCIENCE, SCI Journal, December 2013

Scientific Consultations

Erciyes Üniversitesi, Project Consultancy, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey, 2020 - 2023
TÜBİTAK, Scientific Consultancy, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey, 2019 - 2019
TÜBİTAK, Scientific Consultancy, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey, 2019 - 2019
TÜBİTAK, Scientific Consultancy, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey, 2018 - 2018

Tasks In Event Organizations

Bayrakçeken Yurtcan A., TUYSUZ E., TORAMAN E., AKBULUT S., GÜROL A., ÖZAKIN O., ÖZDÖNMEZ A., ER H., 1st International Congress on Natural Sciences, Scientific Congress, Erzurum, Turkey, Eylül 2021
Şişman T., Bayrakçeken Yurtcan A., Tuysuz E., Akbulut S., Gürol A., Özdönmez A., ER H., 1st International Symposium on Recent Advances in Fundamental and Applied Sciences , Scientific Congress, Erzurum, Turkey, Eylül 2021
Bayrakçeken Yurtcan A., 3. Ulusal Karbon Konferansı, Scientific Congress, İstanbul, Turkey, Mart 2021
Yurtcan M. T., Bayrakçeken Yurtcan A., Başçi A., 4th International Symposium on Advanced Materials and Nanotechnology (iSAMN 2020), Scientific Congress, Kuala-Lumpur, Malaysia, Aralık 2020
Yurtcan M. T., Bayrakçeken Yurtcan A., 9. Nanobilim ve Nanoteknoloji Konferansı (NanoTR-9), Scientific Congress, Erzurum, Turkey, Haziran 2013

Metrics

Publication: 325
Citation (WoS): 1859
Citation (Scopus): 1917
H-Index (WoS): 28
H-Index (Scopus): 28

Congress and Symposium Activities

4th International Symposium on Advanced Materials and Nanotechnology, Invited Speaker, Selayang-Baru, Malaysia, 2020
International Symposium on Applied Sciences and Engineering, Session Moderator, Erzurum, Turkey, 2018
International Symposium on Applied Sciences and Engineering, Invited Speaker, Erzurum, Turkey, 2018
International Symposium on Applied Sciences and Engineering, Attendee, Erzurum, Turkey, 2018
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Attendee, Van, Turkey, 2018
2nd International Symposium on Materials for Energy Storage and Conversion, Attendee, Nevşehir, Turkey, 2017
10th Nanoscience and Nanotechnology Conference, Attendee, İstanbul, Turkey, 2014
10th Nanoscience ve Nanotechnology Conference, Invited Speaker, İstanbul, Turkey, 2014
XIth European Congress on Catalysis (Europacat XI), Attendee, Lyon, France, 2013
Sixth International Exergy, Energy and Environment Symposium (IEEES-6), Attendee, Rize, Turkey, 2013
9th Nanoscience and Nanotechnology Conference, Attendee, Erzurum, Turkey, 2013

Ulusal Kimya Mühendisliği Kongresi 10, Attendee, İstanbul, Turkey, 2012
The Energy and Materials Research Conference, Attendee, Malaga, Spain, 2012
25. Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
International Conference on Hydrogen Production (ICH2P-2011), Attendee, Thessaloniki, Greece, 2011
Ulusal Kimya Mühendisliği Kongresi 9, Attendee, Ankara, Turkey, 2010
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries EMCC6, Attendee, Antalya, Turkey, 2010
IV. Ulusal Hidrojen Enerjisi Kongresi, Attendee, Kocaeli, Turkey, 2009
Nükleer ve Yenilenebilir Enerji Kaynakları (Uluslararası katılımlı), TÜBAV Konferansları, Attendee, Ankara, Turkey, 2009
International Hydrogen Energy Congress and Exhibition 2007, Attendee, İstanbul, Turkey, 2007
First National Catalysis Conference, Attendee, Güzelyurt, Cyprus (Kktc), 2007
Ulusal Kimya Mühendisliği Kongresi 6, Attendee, İzmir, Turkey, 2005
International Hydrogen Energy Congress and Exhibition 2005, Attendee, Turkey, 2005

Awards

BAYRAKÇEKEN YURTCAN A., Araştırma Teşvik Ödülü, ODTÜ N. Parlar Eğitim ve Araştırma Vakfı, December 2018
BAYRAKÇEKEN YURTCAN A., Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP), Türkiye Bilimler Akademisi (TÜBA), December 2017
BAYRAKÇEKEN YURTCAN A., ODTÜ Yılı Tezi Ödülü, ODTÜ N. Parlar Eğitim ve Araştırma Vakfı, December 2008

Non Academic Experience

University of Connecticut