

Prof. Ayşe BAYRAKÇEKEN

Personal Information

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International Researcher IDs

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

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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

Chairman of the BAP Committee, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2023 - 2024
Scientific Award Committee Member, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - 2024
University Executive Board Member, Ataturk University, Rektörlük, 2020 - 2024
BAP Scientific Commissioner, Ataturk University, Rektörlük, 2020 - 2024
Member of the Senate, Ataturk University, Rektörlük, 2020 - 2024
Vice Rector, Ataturk University, Rektörlük, 2020 - 2024
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 saçtırma 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 yapılardaki karbon aerojellerin sentezi ve karakterizasyonu, Postgraduate, M.Samancı(Student), 2015

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

BAYRAKÇEKEN YURTCAN A., Pem yakıt pilleri için saçırma 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

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

Doctorate, Doctorate, Atatürk 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

Doctorate, Doctorate, Ege Üniversitesi, January, 2021

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

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

Doctorate, Doctorate, Atatürk Üniversitesi, July, 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

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

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

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pt-decorated binary transition metal oxides (MnO-NiO, MnO-TiO₂) for enhanced electrocatalysis of oxygen reduction and borohydride oxidation**
Martins M., Bozkurt G., BAYRAKÇEKEN A., POZAN SOYLU G. S., Šljukić B., Santos D. M.
Materials Science and Engineering: B, vol.310, 2024 (SCI-Expanded)
- II. **Oxygen evolution reaction activity of carbon aerogel supported Pd-Ni-Al catalysts synthesized by microwave irradiation method**
Hussain A., Asim M., Samanci M., Kausar Janjua N., BAYRAKÇEKEN A.
International Journal of Hydrogen Energy, vol.81, pp.93-109, 2024 (SCI-Expanded)
- III. **Fe, Cu-decorated carbon material produced from ionic liquids as resourceful electrocatalyst for water splitting**
Georgijević J., Milikić J., Aykut Y., Zdolšek N., Santos D. M., BAYRAKÇEKEN A., Šljukić B.
Journal of Electroanalytical Chemistry, vol.967, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **Nitrogen doping of materials with melamine for proton exchange membrane fuel cells: Pre-treatment of carbon support or post treatment of the electrocatalyst**
Çelik P., BAYRAKÇEKEN A.
Reaction Kinetics, Mechanisms and Catalysis, 2024 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **Nanostructured electrocatalysts for low-temperature water splitting: A review**
Aykut Y., BAYRAKÇEKEN YURTCAN A.
Electrochimica Acta, vol.471, 2023 (SCI-Expanded)
- XI. **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)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)

- XXV. **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)
- XXVI. **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)
- XXVII. **Effect of solvent exchange on the properties of carbon xerogel and carbon xerogel/polypyrrole composites for supercapacitors**
Samancı M., Daş E., Bayrakçeken Yurtcan A.
CARBON LETTERS, vol.31, no.6, pp.1287-1308, 2021 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Preparation and characterization of melamine-led nitrogen-doped carbon blacks at different pyrolysis temperatures**
Öztürk A., Bayrakçeken Yurtcan A.
JOURNAL OF SOLID STATE CHEMISTRY, vol.296, 2021 (SCI-Expanded)
- XXXIV. **A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction**
Milikic J., Martins M., Dobrota A. S., Bozkurt G., Soylu 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)
- XXXV. **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., Soylu G. S., Yurtcan A., Miljanić Š., Šljukić B.
Electrochemistry Communications, vol.124, 2021 (SCI-Expanded)
- XXXVI. **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)
- XXXVII. **Carbon aerogel and their polypyrrole composites used as capacitive materials**
Samancı M., Daş E., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.2, pp.1729-1747, 2021 (SCI-Expanded)

- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XL1. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)

- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **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)
- LVII. **Synthesis of polypyrrole (PPy) based porous N-doped carbon nanotubes (N-CNTs) as catalyst support for PEM fuel cells**
Öztürk A., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.40, pp.18559-18571, 2018 (SCI-Expanded)
- LVIII. **Graphene aerogel supported platinum nanoparticles for formic acid electro-oxidation**
Çögenli M. S., Bayrakçeken Yurtcan A.
MATERIALS RESEARCH EXPRESS, vol.5, no.7, 2018 (SCI-Expanded)
- LIX. **Catalytic activity, stability and impedance behavior of PtRu/C, PtPd/C and PtSn/C bimetallic catalysts toward methanol and formic acid oxidation**
Çögenli M. S., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10698-10709, 2018 (SCI-Expanded)
- LX. **A novel Central Composite Design based response surface methodology optimization study for the synthesis of Pd/CNT direct formic acid fuel cell anode catalyst**
Cağlar A., Şahan T., Çögenli M. S., Yurtcan A., Aktaş N., Kivrak H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.24, pp.11002-11011, 2018 (SCI-Expanded)
- LXI. **PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?**
Martins M., Sljukic B., Sequeira C. A. C., Soyly G. S. P., Yurtcan A., Bozkurt G., Sener T., Santos D. M. F.
APPLIED SURFACE SCIENCE, vol.428, pp.31-40, 2018 (SCI-Expanded)
- LXII. **PEDOT/C Composites used as a Proton Exchange Membrane Fuel Cell Catalyst Support: Role of Carbon Amount**
Daş E., Yurtcan A.
ENERGY TECHNOLOGY, vol.5, no.9, pp.1552-1560, 2017 (SCI-Expanded)
- LXIII. **Facilitation of water management in low Pt loaded PEM fuel cell by creating hydrophobic microporous layer with PTFE, FEP and PDMS polymers: Effect of polymer and carbon amounts**
Öztürk A., Fıçıcılar B., Eroğlu İ., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.33, pp.21226-21249, 2017 (SCI-Expanded)
- LXIV. **Thermodynamically controlled Pt deposition over graphene nanoplatelets: Effect of Pt loading on PEM fuel cell performance**
Daş E., Gursel S. A., Sanli L. I., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.30, pp.19246-19256, 2017 (SCI-Expanded)
- LXV. **Control of average particle size of carbon aerogel supported platinum nanoparticles by supercritical**

deposition

Barim S. B., Bayrakceken A., Bozbag S. E., Zhang L., Kizilel R., Aindow M., Erkey C.

MICROPOROUS AND MESOPOROUS MATERIALS, vol.245, pp.94-103, 2017 (SCI-Expanded)

- LXVI. **Effect of calcination temperature on hydrophobicity of microporous layers prepared with two different molecular weights of PDMS polymer on PEM fuel cell performance with low Pt loading**
Öztürk A., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.9, pp.6250-6261, 2017 (SCI-Expanded)
- LXVII. **Investigation of the Thermal Behavior of Polypyrrole/Carbon Nanotube Composites and Utilization as Capacitive Material or Support for Catalysts**
Bayrakçeken H., Naktiyok J., Özer A., Bayrakçeken Yurtcan A.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.204, no.8, pp.916-925, 2017 (SCI-Expanded)
- LXVIII. **Effect of carbon ratio in the polypyrrole/carbon composite catalyst support on PEM fuel cell performance**
Daş E., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.30, pp.13171-13179, 2016 (SCI-Expanded)
- LXIX. **Comparison of two different catalyst preparation methods for graphene nanoplatelets supported platinum catalysts**
Daş E., Gursel S. A., Sanli L. I., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.23, pp.9755-9761, 2016 (SCI-Expanded)
- LXX. **Durability of carbon/conducting polymer composite supported Pt catalysts prepared by supercritical carbon dioxide deposition**
Bozkurt G., Memioğlu F., Yurtcan A.
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.1, pp.117-124, 2016 (SCI-Expanded)
- LXXI. **Graphene-based technologies for energy applications, challenges and perspectives**
Quesnel E., Roux F., Emieux F., Faucherand P., Kymakis E., Volonakis G., Giustino F., Martin-Garcia B., Moreels I., Gursel S. A., et al.
2D MATERIALS, vol.2, no.3, 2015 (SCI-Expanded)
- LXXII. **High performance PEM fuel cell catalyst layers with hydrophobic channels**
Avcioglu G. S., Ficicilar B., Bayrakceken A., Eroglu I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.24, pp.7720-7731, 2015 (SCI-Expanded)
- LXXIII. **Membrane Electrode Assembly with Ultra Low Platinum Loading for Cathode Electrode of PEM Fuel Cell by Using Sputter Deposition**
Çögenli M. S., Mukerjee S., Yurtcan A.
Fuel Cells, vol.15, no.2, pp.288-297, 2015 (SCI-Expanded)
- LXXIV. **Pt nanoparticles over PEDOT/carbon composites prepared by supercritical carbon dioxide deposition**
Bozkurt G., Memioğlu F., Bayrakceken A.
APPLIED SURFACE SCIENCE, vol.318, pp.223-226, 2014 (SCI-Expanded)
- LXXV. **Synthesis and characterization of CuO at nanoscale**
Bozkurt G., Bayrakçeken Yurtcan A., Özer A.
APPLIED SURFACE SCIENCE, vol.318, pp.244-250, 2014 (SCI-Expanded)
- LXXVI. **Conducting carbon/polymer composites as a catalyst support for proton exchange membrane fuel cells**
Memioğlu F., Bayrakçeken Yurtcan A., Öznülüer Özer T., Ak M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.38, no.10, pp.1278-1287, 2014 (SCI-Expanded)
- LXXVII. **Platinum or nickel nanoparticles decorated on silica spheres by microwave irradiation technique**
Bayrakceken A.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.2, pp.309-316, 2014 (SCI-Expanded)
- LXXVIII. **Fabricating multicolored electrochromic devices using conducting copolymers**
Yagmur I., Ak M., Bayrakceken A.
SMART MATERIALS AND STRUCTURES, vol.22, no.11, 2013 (SCI-Expanded)

- LXXXIX. **Durability of PEM fuel cell electrocatalysts prepared by microwave irradiation technique**
Sayin E. S., Bayrakceken A., Eroglu I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.21, pp.16663-16672, 2012 (SCI-Expanded)
- LXXX. **Synthesis and characterization of polypyrrole/carbon composite as a catalyst support for fuel cell applications**
Memioğlu F., Bayrakçeken Yurtcan A., Öznülüer Özer T., Ak M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.21, pp.16673-16679, 2012 (SCI-Expanded)
- LXXXI. **Hollow core mesoporous shell carbon supported Pt electrocatalysts with high Pt loading for PEMFCs**
Guvenatam B., Ficicilar B., Bayrakceken A., Eroglu I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.2, pp.1865-1874, 2012 (SCI-Expanded)
- LXXXII. **PtPd/BP2000 electrocatalysts prepared by sequential supercritical carbon dioxide deposition**
Bayrakceken A., Cangul B., Zhang L. C., Aindow M., Erkey C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.21, pp.11669-11680, 2010 (SCI-Expanded)
- LXXXIII. **Pt incorporated hollow core mesoporous shell carbon nanocomposite catalyst for proton exchange membrane fuel cells**
Ficicilar B., Bayrakceken A., Eroglu I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.18, pp.9924-9933, 2010 (SCI-Expanded)
- LXXXIV. **Effect of Pd loading in Pd-Pt bimetallic catalysts doped into hollow core mesoporous shell carbon on performance of proton exchange membrane fuel cells**
Ficicilar B., Bayrakceken A., Eroglu I.
JOURNAL OF POWER SOURCES, vol.193, no.1, pp.17-23, 2009 (SCI-Expanded)
- LXXXV. **Vulcan-Supported Pt Electrocatalysts for PEMFCs Prepared using Supercritical Carbon Dioxide Deposition**
Bayrakceken A., Smirnova A., Kitkamthorn U., Aindow M., Tuerker L., Eroglu I., Erkey C.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.196, pp.194-203, 2009 (SCI-Expanded)
- LXXXVI. **Improvement of carbon dioxide tolerance of PEMFC electrocatalyst by using microwave irradiation technique**
Bayrakceken A., Tuerker L., Inci E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.33, no.24, pp.7527-7537, 2008 (SCI-Expanded)
- LXXXVII. **Pt-based electrocatalysts for polymer electrolyte membrane fuel cells prepared by supercritical deposition technique**
Bayrakceken A., Smirnova A., Kitkamthorn U., Aindow M., Turker L., Eroglu I., Erkey C.
JOURNAL OF POWER SOURCES, vol.179, no.2, pp.532-540, 2008 (SCI-Expanded)
- LXXXVIII. **Effects of membrane electrode assembly components on proton exchange membrane fuel cell performance**
Bayrakceken A., Erkan S., Turker L., Eroglu I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.33, no.1, pp.165-170, 2008 (SCI-Expanded)
- LXXXIX. **Decoration of multi-wall carbon nanotubes with platinum nanoparticles using supercritical deposition with thermodynamic control of metal loading**
Bayrakceken A., Kitkamthorn U., Aindow M., Erkey C.
SCRIPTA MATERIALIA, vol.56, no.2, pp.101-103, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Rapid microwave synthesis of medium and high entropy oxides for outstanding oxygen evolution reaction performance**
Asim M., Hussain A., Kanwal S., Ahmad A., Aykut Y., BAYRAKÇEKEN A., Janjua N. K.
Materials Advances, vol.5, no.21, pp.8490-8504, 2024 (ESCI)
- II. **Alternative Support Material to Platinum Catalyst Used for Oxygen Reduction Reaction: Nonporous Carbon**

- Öztürk A., Bayrakçeken Yurtcan A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.36, no.4, pp.1463-1478, 2023 (ESCI)
- III. **Synthesis of Reduced Graphene Oxide (rGO) Supported Pt Nanoparticles via Supercritical Carbon Dioxide Deposition Technique for PEM Fuel Cell Electrodes**
DAŞ E., BAYRAKÇEKEN YURTCAN A.
Journal of Anatolian Physics and Astronomy, vol.2, no.1, pp.1-17, 2022 (Peer-Reviewed Journal)
- IV. **Effect of nitrogen doping amount on the activity of commercial electrocatalyst used in PEM fuel cells**
ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.
NanoEra, vol.2, no.2, 2022 (Peer-Reviewed Journal)
- V. **Pt Nanoparticles Supported on Bi₂O₃ for Direct Formic Acid Fuel Cells**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
NanoEra, vol.2, no.2, pp.45-48, 2022 (Peer-Reviewed Journal)
- VI. **Formic Acid and Methanol Oxidation for Pt/C Catalyst Depending on Rotating Speed, Scan Rate and Concentration**
Çögenli M. S., Bayrakçeken Yurtcan A.
Brilliant Engineering, vol.1, pp.1-4, 2020 (Peer-Reviewed Journal)
- VII. **SB12 Assisted Synthesis of Nano CuO via Precipitation Method in Different Reaction Environments**
Bozkurt G., Bayrakçeken Yurtcan A., Özer A.
Applied Mechanics and Materials, vol.749, pp.164-168, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Prospects for Hydrogen and Fuel Cells**
Öztürk Aydın A., Bayrakçeken Yurtcan A.
in: Prospects of Hydrogen Fueled Power Generation, Shukla Anoop Kumar, Singh Onkar, Chamkha Ali J., Sharma Meeta, Editor, River Publishers, New York, pp.81-121, 2024
- II. **Electrocatalysts Based on Graphene and Its Composites**
Aykut Y., Bayrakçeken Yurtcan A.
in: Noble Metal-Free Electrocatalysts: Fundamentals and Recent Advances in Electrocatalysts for Energy Applications, Gupta, Ram K., Editor, CRC Press, New York, pp.165-199, 2022
- III. **Dispersion and Characterization of Graphene in Elastomer Composite**
Samancı M., Bayrakçeken Yurtcan A.
in: Graphene-Rubber Nanocomposites: Fundamentals to Applications, Mondal, Titash; Bhowmick, Anil K., Editor, CRC Press, New York, pp.177-198, 2022
- IV. **Direct Liquid Fuel Cells: Fundamentals, Advances and Future**
Bayrakçeken Yurtcan A. (Editor)
Academic Press, Massachusetts, 2020
- V. **Other possible fuels and possible use of blended fuels in fuel cells**
Daş E., Urgan H., Bayrakçeken Yurtcan A., Fıçıcılar B.
in: Direct liquid fuel cells: Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Academic Press, Massachusetts, pp.249-273, 2020
- VI. **Introduction to fuel cells**
Öztürk A., Akay R. G., Erkan S., Bayrakçeken Yurtcan A.
in: Direct Liquid Fuel Cells Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Academic Press, Massachusetts, pp.1-47, 2020
- VII. **Conclusions: Current state and future**
Akay R. G., Bayrakçeken Yurtcan A.
in: Direct liquid fuel cells: Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Academic Press, Massachusetts, pp.275-305, 2020
- VIII. **Chapter 13 - Conclusions: Current state and future**

AKAY R. G., BAYRAKÇEKEN YURTCAN A.

in: Direct Liquid Fuel Cells: Fundamentals, Advances and Future, AKAY R, BAYRAKÇEKEN YURTCAN A, Editor, Academic Press , pp.275-305, 2020

IX. Carbon-Based Nanomaterials for Alcohol Oxidation

Çögenli M. S., Bayrakçeken Yurtcan A.

in: Nanomaterials for Alcohol Fuel Cells, İnamuddin,Rangreez T.A,Şen,F.,Asiri A.M., Editor, Materials Research Forum Llc, Pennsylvania, pp.1-78, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. PEMFC Performance of Pt Catalyst Decorated on Heat-Treated Carbon Black**
Öztürk Aydın A., Bayrakçeken A.
8th International Hydrogen Technologies Congress (IHTEC 2024), Diyarbakır, Turkey, 12 - 15 May 2024, pp.245-248
- II. Melamine doped carbon black as catalyst support for PEM fuel cells**
ÇELİK P., BAYRAKÇEKEN YURTCAN A.
2. International World Energy Conference, Kayseri, Turkey, 09 December 2022
- III. The steps in the value chain of hydrogen: The energy carrier of our future**
AYKUT Y., BAYRAKÇEKEN YURTCAN A.
2. International World Energy Conference, Kayseri, Turkey, 09 December 2022
- IV. Use of graphitic carbon nitride as catalyst support in PEM fuel cells**
AYKUT Y., BAYRAKÇEKEN YURTCAN A.
2. International World Energy Conference, Kayseri, Turkey, 09 December 2022
- V. Hydrogen Purification and Compression Methods for Future Energy**
Aykut Y., Bayrakçeken Yurtcan A.
2nd International Symposium on Applied Sciences and Engineering, Erzurum, Turkey, 7 - 09 April 2021, pp.301-303
- VI. Pt/Graphene Catalysts Prepared by Supercritical Deposition with Different Pt Precursors**
Samancı M., Bayrakçeken Yurtcan A.
2nd International Symposium on Applied Sciences and Engineering, Erzurum, Turkey, 7 - 09 April 2021, pp.298-300
- VII. Can we go beyond fuel cell vehicle future with the help of new nanomaterials?**
Bayrakçeken Yurtcan A.
4th International Symposium on Advanced Materials and Nanotechnology, Selayang-Baru, Malaysia, 01 December 2020 - 03 June 2021, pp.10-15
- VIII. Nitrogen-doped Carbon Derived from ZIF-8 as Platinum Catalyst Support for PEM Fuel Cells**
Mohamud M. A., BAYRAKÇEKEN YURTCAN A.
4th International Symposium On Materials For Energy Storage and Conversion, 11 - 13 September 2019
- IX. Physical and Electrochemical Characterization of Micro Porous Layers Prepared With Functionalized Carbon Nanotubes and Evaluation of The Use In Pem Fuel Cell**
Öztürk A., Bayrakçeken Yurtcan A.
ISPEC 5th International Conference on Engineering & Natural Sciences, Van, Turkey, 20 - 22 December 2019, vol.2, pp.428-435
- X. Effects of PPy and PDMS Polymers Addition On GA as Electrical Conductivity and Hydrophobicity Improvement Agents**
ÖNER E., ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.516-519
- XI. Raw and Calcined Graphenes with Different Surface Areas as PEM Fuel Cell Catalyst Support**
Öztürk A., Bayrakçeken Yurtcan A.
Electrochemistry Conference - 2019, İstanbul, Turkey, 30 September - 02 October 2019, pp.66

- XII. **Raw and Calcined Graphenes with Different Surface Areas as PEM Fuel Cell Catalyst Support**
ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
Electrochemistry Conference - 2019, İstanbul, Turkey, 30 September - 02 October 2019, pp.66
- XIII. **A. Nitrogen-doped Carbon Derived from ZIF-8 as Platinum Catalyst Support for PEM Fuel Cells**
MOHAMUD M. A., BAYRAKÇEKEN YURTCAN A.
4th International Symposiyum On Materials For Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.1
- XIV. **Ni@Pt/C Two Layer PEM Fuel Cell Electrocatalyst Preparation via Magnetron Sputtering Method**
Kurtuluş S., BAYRAKÇEKEN YURTCAN A.
4th International Symposiyum On Materials For Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.1
- XV. **Synthesis of Platinum Nanocrystals in Cubic Shapes Supported on N-Doped Carbon as PEM Fuel Cell Catalyst**
Öztürk A., Bayrakçeken Yurtcan A.
4th International Symposium On Materials For Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.122-125
- XVI. **Ni@Pt/C Two Layer PEM Fuel Cell Electrocatalyst Preparation via Magnetron Sputtering Method**
Kurtuluş S., BAYRAKÇEKEN YURTCAN A.
4th International Symposiyum On Materials For Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.1
- XVII. **Synthesis of Platinum Nanocrystals in Different Shapes Assisted by Various Reductant Concentration and Utilization as PEM Fuel Cell Catalyst**
Öztürk A., Bayrakçeken Yurtcan A.
4th International Symposium On Materials For Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.132-134
- XVIII. **Effect of Hydrophobic PDMS-OH/CTAB Catalyst Layer Coating on Water Management in PEM Fuel Cell**
ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
4th International Hydrogen Energy Congress (IHTEC-2019), 20 - 23 June 2019
- XIX. **Effects of PPy and PDMS Polymers Addition On GA as Electrical Conductivity and Hydrophobicity Improvement Agents**
ÖNER E., ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.
4th International Hydrogen Energy Congress (IHTEC-2019), 20 - 23 June 2019
- XX. **Effects of PPy and PDMS Polymers Addition On GA as Electrical Conductivity and Hydrophobicity Improvement Agents**
Öner E., Öztürk A., Bayrakçeken Yurtcan A.
4th International Hydrogen Energy Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.516-519
- XXI. **Effect of Hydrophobic PDMS-OH/CTAB Catalyst Layer Coating on Water Management in PEM Fuel Cell**
Öztürk A., Bayrakçeken Yurtcan A.
4th International Hydrogen Energy Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.507-510
- XXII. **A new approach to improve the performance of PEM fuel cells: APTES polymer modification of the catalyst layer**
UNGAN H., BAYRAKÇEKEN YURTCAN A.
4th International Hydrogen Energy Congress (IHTEC-2019), Erzurum, Turkey, 20 - 23 June 2019, pp.1-3
- XXIII. **Synthesis and Characterization of Zeolitic Imidazolate Based Frameworks**
MOHAMUD M. A., BAYRAKÇEKEN YURTCAN A.
International Journal of Mathematics, Engineering, Natural & Medical Sciences, Erzurum, Turkey, 2 - 05 May 2019, pp.16-22
- XXIV. **Graphene and graphene based materials used in PEM fuel cells**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.

International Journal of Mathematics, Engineering, Natural & Medical Sciences, Erzurum, Turkey, 2 - 05 May 2019, pp.375-383

- XXV. **Graphene Aerogel Synthesis Methods for Energy Conversion and Storage Applications**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018
- XXVI. **Drawbacks in Carbon Supported Electrocatalysts of PEM Fuel Cells**
BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018
- XXVII. **Fuel Cell Materials**
BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018
- XXVIII. **Investigation of Structural Changes with the Addition of Graphene to Carbon Aerogel**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018
- XXIX. **Synthesis and Characterization of Graphene Aerogel and Graphene Aerogel/Polypyrrole Support Materials for PEMFuel Cells**
ÖNER E., BAYRAKÇEKEN YURTCAN A.
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018
- XXX. **Improvement water management in PEM fuel cell by using microporous layer with PDMS polymer and polystyrene-silica nanoparticles**
Öztürk A., Bayrakçeken Yurtcan A.
ISASE 2018 International Symposium on Applied Sciences and Engineering, Erzurum, Turkey, 26 - 28 November 2018, pp.158-159
- XXXI. **GRAPHENE AEROGEL SYNTHESIS AND CHARACTERIZATION FOR PEMFUEL CELLS**
SAMANCI M., BAYRAKÇEKEN YURTCAN A.
3rd International Energy Engineering Congress, Gaziantep, Turkey, 18 - 19 October 2018
- XXXII. **Destekli Katalizörlerin Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., Alkan Gursel S., Bayrakceken Yurtcan A.
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 03 September 2018, pp.202-206
- XXXIII. **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
- 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. **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
- XXXVI. **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
- 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

- XXXVIII. **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
- XXXIX. **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
- XL. **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
- 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. **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
- XLIII. **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.
233rd ECS Meeting, 13 - 17 May 2018
- XLIV. **Catalyst Preparation by Sputtering Technique for Hydrogen Production from NaBH₄**
BOZKURT G., ÖZER A., BAYRAKÇEKEN YURTCAN A.
13 th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, Antalya, Turkey, 22 - 25 October 2017
- XLV. **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
- XLVI. **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
- XLVII. **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
- XLVIII. **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
- XLIX. **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
- L. **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

- LI. 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
- LII. 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
- LIII. 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
- LIV. 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
- LV. Synthesis and Characterization of Bimetallic Catalysts for PEM Fuel Cells**
DAŞ E., ALKAN GURSEL 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. Durability Investigation of Graphene Supported Bimetallic Catalysts for PEM Fuel Cell Applications**
DAŞ E., ALKAN GURSEL S., Bayrakceken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- LVIII. 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
- LIX. 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
- LX. 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
- LXI. 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
- LXII. 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
- 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. **Graphene Aerogel Supported Platinum Catalysts for Formic Acid Electrooxidation**
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- LXV. **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., Bayrakçeken Yurtcan A.
2nd International Hydrogen Technologies Congress (IHTEC 2017), Adana, Turkey, 15 - 18 March 2017, pp.138
- LXVI. **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
- LXVII. **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
- LXVIII. **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
- LXIX. **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
- 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. **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
- LXXII. **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
- LXXIII. **PPy/C Destekli Pt Elektrokatalizörlerin ORR Aktivitelerinin İncelenmesi**
DAŞ E., Bayrakçeken Yurtcan A.
IV. Uygulamalı Elektrokimya Lisansüstü Yaz okulu ve Çalıştay, Turkey, 24 - 27 May 2016
- LXXIV. **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
- LXXV. **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
- LXXVI. **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
- 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. **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

- 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. **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
- LXXXI. **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
- LXXXII. **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
- LXXXIII. **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
- LXXXIV. **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
- LXXXV. **Different Reactant Assisted Synthesis of Nano CuO for H₂O₂ Electrochemical Sensor**
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.
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. **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
- LXXXVIII. **Electrode Prepared By Supercritical Carbon Dioxide Deposition Technique For PEM Fuel Cell**
DAŞ E., Bayrakceken Yurtcan A.
International Physics Conference, 25 - 27 February 2016
- LXXXIX. **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
- 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. **Reduced Graphene Oxide Supported Pt Nanoparticles**
DAŞ E., Bayrakceken Yurtcan A.
4th Nano Today Conference, 6 - 10 December 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. **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

- 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
- 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
- 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. 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
- XCVIII. 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
- XCIX. 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
- 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.
 22. Elektron Mikroskopi Kongresi (EMK 2015), Turkey, 2 - 04 September 2015
- CIII. 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
- CIV. 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., Bayrakçeken Yurtcan A., Kınal S., Eroğlu İ.
 20 th World Hydrogen Energy Conference (WHEC 2014), Gwangju, South Korea, 15 - 20 June 2014, vol.2, pp.1247-1255
- CV. 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
- CVI. 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

- CVII. **3 kW proton deęişim membran yakıt pili sistemi başlangıç test protokollerinin geliştirilmesi**
SAYGILI Y., DEVRİM Y., BAYRAKÇEKEN YURTCAN A., DEVRİM H., KINCAL S., BAÇ N., EROĐLU İ.
Ulusal Kimya Mühendislięi 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., Erođlu İ., Bayrakçeken Yurtcan A.
UKMK-11 11. Ulusal Kimya Mühendislięi Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, vol.1, pp.1
- CIX. **3 kW proton deęişim membran yakıt pili sistemi başlangıç test protokollerinin geliştirilmesi**
SAYGILI Y., DEVRİM Y., BAYRAKÇEKEN YURTCAN A., DEVRİM H., KINCAL S., BAÇ N., EROĐLU İ.
Ulusal Kimya Mühendislięi Kongresi 11, Eskişehir, Turkey, 2 - 05 September 2014, pp.1-5
- CX. **PEM yakıt pilleri için PPy/C destekli Pt katalizörlerin mikrodalga yöntemi ile sentezi ve karakterizasyonu**
DAŞ E., Bayrakçeken Yurtcan A.
11. Ulusal Kimya Mühendislięi Kongresi, Turkey, 2 - 05 September 2014
- CXI. **Karbon Aerojel ve Karbon Kserojel Sentezi ve Karakterizasyonu**
SAMANCI M., DAŞ E., Bayrakçeken Yurtcan A.
11. Ulusal Kimya Mühendislięi Kongresi, Turkey, 2 - 05 September 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. **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
- CXIV. **Preparation and characterization of carbon based polypyrrole nanocomposites**
DEGHANPOUR H., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXV. **Supported nanoparticles for proton Exchange membrane fuel cells**
BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXVI. **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
- 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. **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
- CXIX. **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
- CXX. **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
- CXXI. **Preparation and characterization of carbon based polypyrrole nanocomposites**
DEGHANPOUR H., BAYRAKÇEKEN YURTCAN A.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXXII. **Supported nanoparticles for proton Exchange membrane fuel cells**
BAYRAKÇEKEN YURTCAN A.

- 10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014, pp.1
- CXXXIII. **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
- CXXXIV. **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
- CXXXV. **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
- CXXXVI. **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
- CXXXVII. **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
- CXXXVIII. **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
- CXXXIX. **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
- 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. **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
- CXXXIII. **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
- CXXXIV. **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
- CXXXV. **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
- CXXXVI. **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
- CXXXVII. **Synthesis of CuO at nanoscale**
Bozkurt G., BAYRAKÇEKEN YURTCAN A., ÖZER A.

- 9th Nanoscience and Nanotechnology Conference-2013, Erzurum, Turkey, 24 - 28 June 2013, pp.1
- CXXXVIII. **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
- CXXXIX. **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
- CXL. **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
- CXLI. **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
- CXLII. **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
- CXLIII. **Comparison of Two Different Conduction Polymer/Carbon Composites as Support Material for Pt Nanoparticles**
DAŞ E., BOZKURT G., MEMİOĞLU F., Bayrakceken Yurtcan A.
9th Nanoscience and Nanotechnology Conference, 24 - 28 June 2013
- CXLIV. **Non isothermal Decomposition Kinetics and Synthesis of Nano Nickel Borate**
EDA K. G., BAYRAKÇEKEN H., NAKTİYOK J., BAYRAKÇEKEN YURTCAN A., ÖZER A.
1st International Chemistry and Chemical Engineering Conference, 18 - 21 April 2013
- CXLV. **Mikrodalga ile sentezlenen PEM yakıt pili katalizörlerinin uzun dönem performanslarının incelenmesi**
ŞAYİN E. S., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CXLVI. **Nano bakır borat partiküllerin sentezi ve karakterizasyonu**
OLGUN E., KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CXLVII. **PEM yakıt pilleri için sputtering yöntemi ile MEA hazırlanması**
ÇÖGENLİ M. S., ERTUĞRUL M., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CXLVIII. **Farklı yüzey alanlarına sahip karbon siyahları ile iletken polimer/karbon kompozitleri hazırlanması**
MEMİOĞLU F., DURMAZ M. C., GÜNAYDIN F. M., KIRLAK H., ÇİÇEK M., ÇELİK M. K., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CXLIX. **Polipirol/karbon kompozitlerinin PEM yakıt pilinde meydana gelen karbon korozyonuna dayanımının incelenmesi**
MEMİOĞLU F., BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER ÖZER T., AK M.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CL. **PEM yakıt pilleri için PEDOT:CSA/C ve PEDOT:PSS/C kompozitlerinin sentezi ve karakterizasyonu**
MEMİOĞLU F., BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER ÖZER T., AK M.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CLI. **Nano bakır borat partiküllerin sentezi ve karakterizasyonu**
OLGUN E., KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CLII. **Farklı yüzey alanlarına sahip karbon siyahları ile iletken polimer/karbon kompozitleri hazırlanması**
MEMİOĞLU F., DURMAZ M. C., GÜNAYDIN F. M., KIRLAK H., ÇİÇEK M., ÇELİK M. K., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1

- CLIII. **Mikroalga ile sentezlenen PEM yakıt pili katalizörlerinin uzun dönem performanslarının incelenmesi**
ŞAYİN E. S., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 10, İstanbul, Turkey, 3 - 06 September 2012, pp.1
- CLIV. **PEM Yakıt Pilleri için Sputtering Yöntemi ile MEA hazırlanması**
ERTUĞRUL M., BAYRAKÇEKEN YURTCAN A.
10'ncu Ulusal Kimya Mühendisliği Kongresi(Ukmk-10), İstanbul, Turkey, 3 - 06 September 2012, pp.71
- CLV. **Carbon aerogel as a carbon support for PEMFC electrocatalysts**
BAYRAKÇEKEN YURTCAN A., ZHANG L., AİNDOW M., ERKEY C.
The Energy and Materials Research Conference, Malaga, Spain, 20 - 22 June 2012, pp.182
- CLVI. **Conducting Polymer/Carbon Composites for PEMFC Electrocatalysts**
BAYRAKÇEKEN YURTCAN A., MEMİOĞLU F., ÖZNÜLÜER ÖZER T., AK M.
The Energy and Materials Research Conference, Malaga, Spain, 20 - 22 June 2012, pp.186
- CLVII. **Carbon aerogel as a carbon support for PEMFC electrocatalysts**
BAYRAKÇEKEN YURTCAN A., ZHANG L., AİNDOW M., ERKEY C.
The Energy and Materials Research Conference, Malaga, Spain, 20 - 22 June 2012, pp.182
- CLVIII. **PEDOT PSS C Composite as Support Material For Fuel Cell Electrocatalysts**
Memioğlu F., BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER T., AK M.
9th International Electrochemistry Meeting, İzmir/Çeşme, Turkey, 25 - 29 September 2011, pp.286
- CLIX. **Karbon Aerojel Destekli PEM Yakıt Pili Katalizörlerindeki Platin Yükünün Performansa Etkisi**
BAYRAKÇEKEN YURTCAN A., ZHANG L., AİNDOW M., ERKEY C.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1-5
- CLX. **Hidrotermal Yöntemle TiO₂ Nanopartiküllerin Sentezi ve Karakterizasyonu**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1
- CLXI. **Surfactant assisted synthesis and characterization of silica nanoparticles**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
7th Nanoscience and Nanotechnology Conference Nanotr-VII, İstanbul, Turkey, 27 June - 01 July 2011, pp.1
- CLXII. **Alternatif PEM Yakıt Pili Katalizör Desteği olarak Polipirrol/Karbon Kompoziti**
MEMİOĞLU F., BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER ÖZER T., AK M.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1-5
- CLXIII. **Karbon Aerojel Destekli PEM Yakıt Pili Katalizörlerindeki Platin Yükünün Performansa Etkisi**
BAYRAKÇEKEN YURTCAN A., ZHANG L., AİNDOW M., ERKEY C.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1-5
- CLXIV. **Hidrotermal Yöntemle TiO₂ Nanopartiküllerin Sentezi ve Karakterizasyonu**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1
- CLXV. **Synthesis and characterization of nano nickel borate**
OLGUN E., KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
7th Nanoscience and Nanotechnology Conference Nanotr-VII, İstanbul, Turkey, 27 June - 01 July 2011, pp.1
- CLXVI. **Synthesis and characterization of nano nickel borate**
OLGUN E., KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
7th Nanoscience and Nanotechnology Conference Nanotr-VII, İstanbul, Turkey, 27 June - 01 July 2011, pp.1
- CLXVII. **Surfactant assisted synthesis and characterization of silica nanoparticles**
KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.
7th Nanoscience and Nanotechnology Conference Nanotr-VII, İstanbul, Turkey, 27 June - 01 July 2011, pp.1
- CLXVIII. **Parameters influencing long term performance and durability of PEM fuel cells**
ŞAYİN E. S., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.
International Conference on Hydrogen Production (ICH2P-2011), Selanik, Greece, 19 - 22 June 2011, pp.1-3
- CLXIX. **Synthesis and characterization of polypyrrole carbon composite as a catalyst support for fuel cell applications**

ÖZNÜLÜER T., Memioğlu F., AK M., BAYRAKÇEKEN YURTCAN A.

International Conference on Hydrogen Production (ICH2P-11), Thessaloniki, Greece, 19 - 22 June 2011, pp.153

CLXX. **TiO₂ Nanopartiküllerin Sol-Jel Yöntemi ile Sentezi ve Karakterizasyonu**

KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.

1. Ulusal Nanoteknoloji Kongresi, İstanbul, Turkey, 17 - 18 June 2011, pp.1-5

CLXXI. **TiO₂ Nanopartiküllerin Sol-Jel Yöntemi ile Sentezi ve Karakterizasyonu**

KELEŞ E., BAYRAKÇEKEN YURTCAN A., ÖZER A.

1. Ulusal Nanoteknoloji Kongresi, İstanbul, Turkey, 17 - 18 June 2011, pp.1-5

CLXXII. **Improvement of carbon supported platinum electrocatalysts for proton exchange membrane (PEM) fuel cell**

GÜVENATAM B., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

International Conference on Clean Energy (ICCE-2010), Gazi Magosa, Cyprus (Kkct), 15 - 17 October 2010, pp.1-5

CLXXIII. **Improvement of carbon supported platinum electrocatalysts for proton exchange membrane (PEM) fuel cell**

GÜVENATAM B., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

International Conference on Clean Energy (ICCE-2010), Gazi Magosa, Cyprus (Kkct), 15 - 17 October 2010, pp.1-5

CLXXIV. **Mikrodalga yardımı ile karbon destekli katalizör hazırlanması**

BAYRAKÇEKEN YURTCAN A., FIÇICILAR B., EROĞLU İ.

Ulusal Kimya Mühendisliği Kongresi 9, UKMK9, Ankara, Turkey, 22 - 25 June 2010, pp.1-5

CLXXV. **Mikrodalga yardımı ile karbon destekli katalizör hazırlanması**

BAYRAKÇEKEN YURTCAN A., FIÇICILAR B., EROĞLU İ.

Ulusal Kimya Mühendisliği Kongresi 9, UKMK9, Ankara, Turkey, 22 - 25 June 2010, pp.1-5

CLXXVI. **Development of different carbon supports for proton exchange membrane (PEM) fuel cell electrocatalysts**

GÜVENATAM B., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries EMCC6, Antalya, Turkey, 7 - 12 March 2010, pp.235

CLXXVII. **Parameters influencing long term performance and durability of PEM fuel cells**

ŞAYİN E. S., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries EMCC6, Antalya, Turkey, 7 - 12 March 2010, pp.113

CLXXVIII. **Development of different carbon supports for proton exchange membrane (PEM) fuel cell electrocatalysts**

GÜVENATAM B., FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries EMCC6, Antalya, Turkey, 7 - 12 March 2010, pp.235

CLXXIX. **Karbon destekli Pt, Pd ve PdPt PEM yakıt pili katalizörlerinin süperkritik karbondioksit depozisyon yöntemiyle hazırlanması**

BAYRAKÇEKEN YURTCAN A., CANGÜL B., ZHANG L., AİNDOW M., ERKEY C.

IV. Ulusal Hidrojen Enerjisi Kongresi, Kocaeli, Turkey, 15 - 16 November 2009, pp.1-5

CLXXX. **Karbon destekli Pt, Pd ve PdPt PEM yakıt pili katalizörlerinin süperkritik karbondioksit depozisyon yöntemiyle hazırlanması**

BAYRAKÇEKEN YURTCAN A., CANGÜL B., ZHANG L., AİNDOW M., ERKEY C.

IV. Ulusal Hidrojen Enerjisi Kongresi, Kocaeli, Turkey, 15 - 16 November 2009, pp.1-5

CLXXXI. **PEM yakıt pilleri için süperkritik karbondioksit depozisyon yöntemiyle hazırlanan PtPd/BP2000 katalizörleri**

BAYRAKÇEKEN YURTCAN A., CANGÜL B., ZHANG L., AİNDOW M., ERKEY C.

Nükleer ve Yenilenebilir Enerji Kaynakları (Uluslararası katılımlı), TÜBAV Konferansları, Ankara, Turkey, 28 - 29 September 2009, pp.1-5

CLXXXII. **PEM yakıt pilleri için süperkritik karbondioksit depozisyon yöntemiyle hazırlanan PtPd/BP2000 katalizörleri**

BAYRAKÇEKEN YURTCAN A., CANGÜL B., ZHANG L., AİNDOW M., ERKEY C.

Nükleer ve Yenilenebilir Enerji Kaynakları (Uluslararası katılımlı), TÜBAV Konferansları, Ankara, Turkey, 28 - 29 September 2009, pp.1-5

CLXXXIII. Nanostructured Materials for Low Temperature Fuel Cell Catalysis

FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

NanoTR-5 5th Nanoscience and Nanotechnology Conference, Eskişehir, Turkey, 9 - 11 June 2009, pp.1-5

CLXXXIV. Nanostructured Materials for Low Temperature Fuel Cell Catalysis

FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

NanoTR-5 5th Nanoscience and Nanotechnology Conference, Eskişehir, Turkey, 9 - 11 June 2009, pp.1-5

CLXXXV. Pt incorporated hollow core mesoporous shell carbon nanocomposite catalyst for PEMFCs

FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

Hyphothesis VIII, Lisbon, Portugal, 1 - 03 April 2009, pp.1-5

CLXXXVI. Pt incorporated hollow core mesoporous shell carbon nanocomposite catalyst for PEMFCs

FIÇICILAR B., BAYRAKÇEKEN YURTCAN A., EROĞLU İ.

Hyphothesis VIII, Lisbon, Portugal, 1 - 03 April 2009, pp.1-5

CLXXXVII. PEM yakıt pilleri için karbon destekli Pt ve PtRu katalizörlerinin hazırlanması

BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.

Ulusal Kimya Mühendisliği Kongresi 8, Malatya, Turkey, 26 - 29 August 2008, pp.1-5

.LXXXVIII. PEM yakıt pilleri için karbon destekli Pt ve PtRu katalizörlerinin hazırlanması

BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.

Ulusal Kimya Mühendisliği Kongresi 8, Malatya, Turkey, 26 - 29 August 2008, pp.1-5

CLXXXIX. Microwave assisted preparation of Pt based catalysts for PEMFCs

BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.

Second National Catalysis Conference, Erzurum, Turkey, 18 - 21 June 2008, pp.1-5

CXC. Microwave assisted preparation of Pt based catalysts for PEMFCs

BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.

Second National Catalysis Conference, Erzurum, Turkey, 18 - 21 June 2008, pp.1-5

CXCI. Preparation and Characterization of Pt-based Electrocatalysts for PEM Fuel Cells by Using Supercritical Carbon Dioxide Deposition

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., TÜRKER B. L., EROĞLU İ., AİNDOW M., KİTKAMTHORN U.

International Hydrogen Energy Congress and Exhibition, İstanbul, Turkey, 13 - 15 July 2007, pp.1-5

CXCII. Preparation and Characterization of Pt-based Electrocatalysts for PEM Fuel Cells by Using Supercritical Carbon Dioxide Deposition

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., TÜRKER B. L., EROĞLU İ., AİNDOW M., KİTKAMTHORN U.

International Hydrogen Energy Congress and Exhibition, İstanbul, Turkey, 13 - 15 July 2007, pp.1-5

CXCIII. High Pt loading Pt/Vulcan electrocatalysts for PEMFCs by Using Supercritical Carbon Dioxide technique

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., KİTKAMTHORN U., AİNDOW M., TÜRKER L., EROĞLU İ., ERKEY C.

Somer Symposium Series 1, Ankara, Turkey, 14 - 15 May 2007, pp.1-5

CXCIV. High Pt loading Pt/Vulcan electrocatalysts for PEMFCs by Using Supercritical Carbon Dioxide technique

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., KİTKAMTHORN U., AİNDOW M., TÜRKER L., EROĞLU İ., ERKEY C.

Somer Symposium Series 1, Ankara, Turkey, 14 - 15 May 2007, pp.1-5

CXCV. Synthesis and Characterization of Pt Based Electrocatalysts by Supercritical Carbon Dioxide Deposition Method

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., KİTKAMTHORN U., AİNDOW M., TÜRKER L., EROĞLU İ., ERKEY C.

First National Catalysis Conference, Güzelyurt, Cyprus (Kktc), 17 - 20 January 2007, pp.1-5

CXCVI. Synthesis and Characterization of Pt Based Electrocatalysts by Supercritical Carbon Dioxide Deposition Method

BAYRAKÇEKEN YURTCAN A., SMİRNOVA A., KİTKAMTHORN U., AİNDOW M., TÜRKER L., EROĞLU İ., ERKEY C.

First National Catalysis Conference, Güzelyurt, Cyprus (Kktc), 17 - 20 January 2007, pp.1-5

- CXCVII. Utilization of metal phthalocyanines as cathode catalysts of proton exchange membrane fuel cells**
Eroglu I., Erkan S., Bayrakçeken A., Türker L.
2006 AIChE Annual Meeting, San Francisco, CA, United States Of America, 12 - 17 November 2006
- CXCVIII. Transmission Electron Microscopy Studies of Mesoporous Carbon Aerogels and Carbon/Metal Nanocomposites Produced using Supercritical Carbon Dioxide Based Processes**
AİNDOW M., KANG D., KITKAMTHORN U., SAQUING C. ., ZHANG Y., BAYRAKÇEKEN YURTCAN A., ERKEY C.
Brazilian MRS Meeting, Florianopolis, Brazil, 8 - 12 October 2006, pp.1-5
- CXCIX. Transmission Electron Microscopy Studies of Mesoporous Carbon Aerogels and Carbon/Metal Nanocomposites Produced using Supercritical Carbon Dioxide Based Processes**
AİNDOW M., KANG D., KITKAMTHORN U., SAQUING C. ., ZHANG Y., BAYRAKÇEKEN YURTCAN A., ERKEY C.
Brazilian MRS Meeting, Florianopolis, Brazil, 8 - 12 October 2006, pp.1-5
- CC. Effect of Different Construction Materials on Proton Exchange Membrane Fuel Cell Performance**
BAYRAKÇEKEN YURTCAN A., ERKAN S., TÜRKER L., EROĞLU İ.
International Hydrogen Energy Congress and Exhibition, İstanbul, Turkey, 13 - 15 July 2005, pp.1-5
- CCI. Utilization of Metallophthalocyanines as Cathode Catalyst of Proton Exchange Membrane Fuel Cells**
ERKAN S., BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.
International Hydrogen Energy Congress and Exhibition, İstanbul, Turkey, 13 - 15 July 2005, pp.1-5
- CCII. Effect of Different Construction Materials on Proton Exchange Membrane Fuel Cell Performance**
BAYRAKÇEKEN YURTCAN A., ERKAN S., TÜRKER L., EROĞLU İ.
International Hydrogen Energy Congress and Exhibition, İstanbul, Turkey, 13 - 15 July 2005, pp.1-5
- CCIII. Proton Değişim Zarlı bir Yakıt Hücresinin Performansı Üzerine Farklı Parametrelerin Etkisi**
BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 6, İzmir, Turkey, 7 - 10 September 2004, pp.1-5
- CCIV. Proton Değişim Zarlı bir Yakıt Hücresinin Performansı Üzerine Farklı Parametrelerin Etkisi**
BAYRAKÇEKEN YURTCAN A., TÜRKER L., EROĞLU İ.
Ulusal Kimya Mühendisliği Kongresi 6, İzmir, Turkey, 7 - 10 September 2004, pp.1-5

Other Publications

- Taşınabilir ve hareketli uygulamalar için PEM yakıt pilleri**
Eroğlu İ., Bayrakçeken Yurtcan A.
Other, pp.26-29, 2009

Expert Reports

- İnceleme**
BAYRAKÇEKEN YURTCAN A., KIZILCA ÇORUH M., KANCA A.
Konya Teknik Üniversitesi, pp.6, Konya, 2019

Supported Projects

- Çelik N., Kılıç M., Bayrakçeken A., Bayrakçeken H., TUBITAK Project, Dental Kompozit Resinlerde Zeolitik İmidazol Çerçeve Kullanımı, 2024 - 2026
- BAYRAKÇEKEN A., Project Supported by Higher Education Institutions, Elektrokimyasal Hidrojen Saflastırıcı ve Kompresörü Sistemi EHSK için Katalizör Gelistirilmesi, 2023 - 2024
- Yıldırım B., Haşiloğlu M. F., Yıldırım E., Kuzu R. K., Bayrakçeken A., Bilgin Ö. C., Demiral Üzan M., Esenbuğa N., Ekinci M., Erdilmen Ocak Ş., et al., Horizon Europe Project, SCI-Nuture_ Science From Nature to your Table, 2022 - 2023
- BAYRAKÇEKEN A., ÖZDEMİR H., ÇAVUŞOĞLU B., ERTUĞRUL M., Project Supported by Higher Education Institutions,

Atatürk Üniversitesi öğretim elemanlarının Avrupa Birliği projelerinin geliştirilmesi, 2021 - 2023

Öztürk A., Bayrakçeken Yurtcan A., Project Supported by Higher Education Institutions, PEM Yakıt Pilleri İçin Isıl İşlem Görmüş Farklı Karbon Siyahları Destekli Pt ve PtCo Katalizörlerin Geliştirilmesi, 2021 - 2023

BAYRAKÇEKEN A., SAMANCI M., Project Supported by Higher Education Institutions, PEM Yakıt Pilleri için Grafen Aerojel Sentezi ve Karakterizasyonu, 2020 - 2023

Bayrakçeken Yurtcan A., Kaya M. F., TUBITAK Project, PEM Elektrolizörler için Yenilikçi Anot Gaz Difüzyon Tabakaları Geliştirilmesi, 2020 - 2023

Bayrakçeken Yurtcan A., TUBITAK Project, Reformat Gazlarından Saf ve Basınçlandırılmış Hidrojen Üretimi İçin Elektrokimyasal Hidrojen Saflaştırıcı ve Kompresörü Sistemi (EHSK) Geliştirilmesi, 2019 - 2023

BAYRAKÇEKEN A., ALI MOHAMUD M., Project Supported by Higher Education Institutions, Metal Organik Çerçeve Tabanlı Azot Katkılı Yapıların Pem Yakıt Pillerinde Kullanımı, 2021 - 2022

BAYRAKÇEKEN A., ÖNER E., Project Supported by Higher Education Institutions, Pem Yakıt Pilleri İçin 3D Grafen ve Azot Katkılı Karbon Destekli Pt Nanoparçacıkların Sentezi ve Karakterizasyonu, 2020 - 2022

BAYRAKÇEKEN A., ÖZTÜRK A., YILMAZ H., Project Supported by Higher Education Institutions, Polidimetilsiloksan PDMS Polimerinin Farklı Miktarlarda PEM Yakıt Pili Katalizör Tabakasında Uygulanması ile Hidrofobik Özelliklerin ve Pili Performansının Geliştirilmesi, 2019 - 2022

BAYRAKÇEKEN A., Project Supported by Higher Education Institutions, 2020 yılı UBYT yayın desteği, 2021 - 2021

Bayrakçeken Yurtcan A., TUBITAK Project, Pem Yakıt Pilleri İçin Magnetron Saçırma Yöntemi ile M@Pt/C (Co, Ni, Cu, Fe) Çok Katmanlı Elektrokatalizör Hazırlanması, 2019 - 2020

BAYRAKÇEKEN A., DEMİR Ü., ÖZNÜLÜER T., GÜR E., METİN Ö., Project Supported by Higher Education Institutions, Nanobilim ve Nanomühendislik Araştırma ve Uygulama Merkezi Adına Enerji Sistemleri Laboratuvarı Kurulumu, 2018 - 2020

BAYRAKÇEKEN A., UNGAN H., Project Supported by Higher Education Institutions, PDMS hidrofobik malzemesinin yakıt pili katalizör çözeltisinde kullanımının yakıt pili performansına etkisinin incelenmesi, 2018 - 2019

BAYRAKÇEKEN A., ÖNER E., Project Supported by Higher Education Institutions, 3D Grafen sentezi karakterizasyonu ve PEM yakıt pillerinde kullanımı, 2018 - 2019

BAYRAKÇEKEN A., ÇÖGENLİ M. S., ÖZTÜRK A., Project Supported by Higher Education Institutions, MİKRODALGA YÖNTEMİYLE KARBON DESTEKLİ BİMETALİK KATALİZÖRLERİN HAZIRLANMASI VE FORMİK ASİT VE METANOL YAKIT PİLLERİ İÇİN KULLANILMASI, 2016 - 2018

Bayrakçeken Yurtcan A., TUBITAK Project, Grafen Esaslı Üstün Nitelikli Gaz Difüzyon Elektrotlarının Pem Yakıt Pili Uygulamaları İçin Geliştirilmesi, 2015 - 2018

KARACALI T., GÖR BÖLEN M., BAYRAKÇEKEN YURTCAN A., EFEĞLÜ H., Project Supported by Higher Education Institutions, PROTON GEÇİREN MEMBRAN TASARIM VE ÜRETİMİ, 2016 - 2017

BAYRAKÇEKEN A., ÇÖGENLİ M. S., ÖZTÜRK A., Project Supported by Higher Education Institutions, MCM-41 DESTEKLİ PLATİN NANOPARÇACIKLARIN SENTEZİ, KARAKTERİZASYONU VE PEM YAKIT PİLİNDE KULLANIMI, 2016 - 2017

BAYRAKÇEKEN A., ÖZTÜRK A., Project Supported by Higher Education Institutions, PEM YAKIT PİLİNDE MİKRO GÖZENEKLİ KATMAN OLARAK SÜPERHİDROFOBİK POLİDİMETİLSİLOKSAN (PDMS)/SİLİKA YÜZEY KAPLAMASININ YAPILMASI, 2015 - 2017

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, Carvedilol/Silika Yapılarının Süperkritik Karbondioksit Depozisyonu Yöntemi İle Sentezi ve Karakterizasyonu, 2015 - 2016

BAYRAKÇEKEN A., Project Supported by Higher Education Institutions, FORMİK ASİT YAKIT PİLLERİ İÇİN MEMBRAN ELEKTROT YAPISI (MEA) HAZIRLANMASI VE TAŞINABİLİR AYGITLAR İÇİN UYGULANABİLİR HALE GETİRİLMESİ, 2014 - 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 A., Project Supported by Higher Education Institutions, GRAFEN DESTEKLİ PLATİN (PT) NANOPARÇACIKLARIN PEM YAKIT PİLLERİ İÇİN SÜPERKRİTİK KARBONDİOKSİT DEPOZİSYON YÖNTEMİ İLE HAZIRLANMASI, 2014 - 2015

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

BAYRAKÇEKEN A., Project Supported by Higher Education Institutions, SPUTTERİNG YÖNTEMİ İLE PEM YAKIT PİLLERİ İÇİN MEMBRAN ELEKTROD ATACI (MEA) HAZIRLANMASI, 2011 - 2012

BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER ÖZER T., 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

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2022

ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, January 2022

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, Journal Indexed in SCI-E, 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 ENERGY RESEARCH, SCI Journal, August 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 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
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, April 2020
NEW JOURNAL OF CHEMISTRY, 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
ACS APPLIED ENERGY MATERIALS, SCI Journal, January 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 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

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., 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

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: 331

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H-Index (Scopus): 28

Congress and Symposium Activities

18th International Nanoscience and Nanotechnology Conference, Invited Speaker, İstanbul, Turkey, 2024

4th International Symposium on Advanced Materials and Nanotechnology, Invited Speaker, Selayang-Baru, Malaysia, 2020

International Symposium on Applied Sciences and Engineering, Invited Speaker, Erzurum, Turkey, 2018

International Symposium on Applied Sciences and Engineering, Attendee, Erzurum, Turkey, 2018

International Symposium on Applied Sciences and Engineering, Session Moderator, 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 Colloborative 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 Yılın Tezi Ödülü, ODTÜ N. Parlar Eğitim ve Araştırma Vakfı, December 2008

Non Academic Experience

University of Connecticut