

Prof. Ayşe BAYRAKÇEKEN

Personal Information

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International Researcher IDs

ScholarID: ULg1izYAAAAJ

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

ScopusID: 23468849600

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Education Information

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

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

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

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

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

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

Dissertations

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

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

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

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

Academic and Administrative Experience

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
BAP Scientific Commissioner, Ataturk University, Rektörlük, 2020 - 2024
Vice Rector, Ataturk University, Rektörlük, 2020 - 2024
University Executive Board Member, Ataturk University, Rektörlük, 2020 - 2024
Member of the Senate, 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 saçırma yöntemi ile M@Pt/C (Co, Ni, Fe, Cu) çok katmanlı elektrokatalizör hazırlanması, Postgraduate, S.KURTULUŞ(Student), 2021
Bayrakçeken Yurtcan A., SIVI BESLEMELİ YAKIT PİLİ UYGULAMALARI İÇİN KATALİZÖR SENTEZİ VE KARAKTERİZASYONU, Doctorate, M.Selim(Student), 2020
Bayrakçeken Yurtcan A., PEM Yakıt Pilleri İçin Hidrofobik Yüzey Geliştirilmesi, Doctorate, H.ÜNGAN(Student), 2019
BAYRAKÇEKEN YURTCAN A., Farklı akış alanı tasarımlarının yakıt pili performansına etkisinin deneysel ve sayısal incelenmesi, Doctorate, K.Geliş(Student), 2019
BAYRAKÇEKEN YURTCAN A., Azot Katkılı Karbon Yapılarının PEM Yakıt Pili Katalizör Destek Malzemesi olarak Sentezi ve Karakterizasyonu, Postgraduate, M.Hurşit(Student), 2019
BAYRAKÇEKEN YURTCAN A., Süperkritik karbondioksit depozisyon tekniği ile hazırlanan grafen bazlı platin katalizörlerin sentezi, karakterizasyonu ve PEM yakıt pilinde kullanımı, Doctorate, E.Daş(Student), 2018
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için metal oksit destekli katalizör geliştirilmesi, Postgraduate, M.Koray(Student), 2017
BAYRAKÇEKEN YURTCAN A., İlaç salınımlarında silika yapıları ve carvedilolun süperkritik karbondioksit depozisyonu yöntemi ile yüklenmesi, Postgraduate, N.Özçelik(Student), 2016
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için mikrogözenekli katman geliştirilmesi, Postgraduate, A.Öztürk(Student), 2016

BAYRAKÇEKEN YURTCAN A., Farklı 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

Doctorate, Doctorate, Atatürk Üniversitesi, March, 2022

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

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

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

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

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

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

Doctorate, Doctorate, Atatürk Üniversitesi, March, 2021

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

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

Doctorate, Doctorate, Ege Üniversitesi, January, 2021

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

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

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

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

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

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

January, 2020

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microwave-Assisted synthesis of Cu_xFe_{100-x}/Carbon aerogel (x = 0, 30, 50, 70) with enhanced Electrocatalytic activity towards oxygen evolution reaction**
Samancı M., Asim M., Hussain A., Janjua N. K., BAYRAKÇEKEN A.
Journal of Electroanalytical Chemistry, vol.976, 2025 (SCI-Expanded)
- II. **Low surface area carbon black as PEMFC catalyst support: heat treatment effect on the physical and electrocatalytic properties**
Aydin A., BAYRAKÇEKEN A.
JOURNAL OF MATERIALS SCIENCE, 2024 (SCI-Expanded)
- III. **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)
- IV. **Oxygen evolution reaction activity of carbon aerogel supported Pd-Ni-Al catalysts synthesized by microwave irradiation method**
Hussain A., Asim M., Samancı M., Kausar Janjua N., BAYRAKÇEKEN A.
International Journal of Hydrogen Energy, vol.81, pp.93-109, 2024 (SCI-Expanded)
- V. **Fe, Cu-decorated carbon material produced from ionic liquids as resourceful electrocatalyst for water splitting**
Georgijević J., Milikić J., Aykut Y., Zdošek N., Santos D. M., BAYRAKÇEKEN A., Šljukić B.
Journal of Electroanalytical Chemistry, vol.967, 2024 (SCI-Expanded)
- VI. **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)
- VII. **Carbon aerogel supported Ni-Fe catalysts for superior oxygen evolution reaction activity**
Asim M., Hussain A., Samancı M., Janjua N. K., BAYRAKÇEKEN YURTCAN A.
CARBON LETTERS, vol.34, no.6, pp.1779-1801, 2024 (SCI-Expanded)
- VIII. **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)
- IX. **Graphene aerogels: part 1 - derived from graphene oxide and thermally reduced graphene oxide via supercritical carbon dioxide drying**
Samancı M., BAYRAKÇEKEN YURTCAN A.
Turkish Journal of Chemistry, vol.48, no.2, pp.251-280, 2024 (SCI-Expanded)
- X. **Graphene aerogels: part 2 - derived from commercial graphene and chemically reduced graphene oxide via supercritical carbon dioxide drying**
Samancı M., BAYRAKÇEKEN YURTCAN A.
Turkish Journal of Chemistry, vol.48, no.2, pp.299-328, 2024 (SCI-Expanded)
- XI. **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)

- XII. **Nanostructured electrocatalysts for low-temperature water splitting: A review**
Aykut Y., BAYRAKÇEKEN YURTCAN A.
Electrochimica Acta, vol.471, 2023 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)

- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Zeolotic 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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction**
Milikic J., Martins M., Dobrota A. S., Bozkurt G., Soyly G. S. P., Bayrakçeken Yurtcan A., Skorodumova N. V., Pasti I. A., Sljukic B., Santos D. M. F.
JOURNAL OF ENERGY CHEMISTRY, vol.55, pp.428-436, 2021 (SCI-Expanded)
- XXXVI. **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)
- XXXVII. **Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications**
Mladenović D., Santos D. M., Bozkurt G., Soyly G. S., Yurtcan A., Miljanić Š., Šljukić B.

- Electrochemistry Communications, vol.124, 2021 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **Carbon aerogel and their polypyrrole composites used as capacitive materials**
Samanci M., Daş E., Bayrakçeken Yurtcan A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.2, pp.1729-1747, 2021 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **Electrical investigation of Al/PEDOT/C/p-Si structure**
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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 yayım desteği, 2021 - 2021

Bayrakçeken Yurtcan A., TUBITAK Project, Pem Yakıt Pilleri İçin Magnetron Saçırma Yöntemi İle 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 Gelistirilmesi, 2015 - 2018

KARACALI T., GÖR BÖLEN M., BAYRAKÇEKEN YURTCAN A., EFEÖĞLU 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., ÖZNLÜER 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

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

ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, January 2022

JOURNAL OF POWER SOURCES, SCI Journal, May 2021

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, SCI Journal, April 2021

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

JOURNAL OF POWER SOURCES, SCI Journal, February 2021

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

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

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, November 2020
TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, November 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, September 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2020
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, August 2020
SCIENTIFIC REPORTS, SCI Journal, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2020
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TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TÜBİTAK, Turkey, July 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2020
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International Journal Of Hydrogen Energy, SCI Journal, May 2020
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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

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

Metrics

Publication: 334
Citation (WoS): 1932
Citation (Scopus): 1988
H-Index (WoS): 29
H-Index (Scopus): 29

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, Attendee, Erzurum, Turkey, 2018
International Symposium on Applied Sciences and Engineering, Invited Speaker, 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 Collaborative Research in Eastern Mediterranean Countries EMCC6, Attendee, Antalya, Turkey, 2010
IV. Ulusal Hidrojen Enerjisi Kongresi, Attendee, Kocaeli, Turkey, 2009
Nükleer ve Yenilenebilir Enerji Kaynakları (Uluslararası katılımlı), TÜBAV Konferansları, Attendee, Ankara, Turkey, 2009
International Hydrogen Energy Congress and Exhibition 2007, Attendee, İstanbul, Turkey, 2007
First National Catalysis Conference, Attendee, Güzelyurt, Cyprus (Kktc), 2007
Ulusal Kimya Mühendisliği Kongresi 6, Attendee, İzmir, Turkey, 2005
International Hydrogen Energy Congress and Exhibition 2005, Attendee, Turkey, 2005

Awards

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

Non Academic Experience

University of Connecticut