

# Prof. Ayşe BAYRAKÇEKEN YURTCAN

## Personal Information

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## Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2004 - 2008

Postgraduate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2002 - 2004

Undergraduate, Atatürk Üniversitesi, 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, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2008

## Academic and Administrative Experience

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

## Courses

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

## Advising Theses

Bayrakçeken Yurtcan A., SIVI BESLEMELİ YAKIT PİLİ UYGULAMALARI İÇİN KATALİZÖR SENTEZİ VE KARAKTERİZASYONU, Doctorate, M.Selim(Student), 2020  
Bayrakçeken Yurtcan A., PEM Yakıt Pilleri İçin Hidrofobik Yüzey Geliştirilmesi, Doctorate, H.ÜNGAN(Student), 2019  
BAYRAKÇEKEN YURTCAN A., Farklı akış alanı tasarımlarının yakıt pili performansına etkisinin deneysel ve sayısal incelenmesi, Doctorate, K.Geliş(Student), 2019  
BAYRAKÇEKEN YURTCAN A., Azot Katkılı Karbon Yapılarının PEM Yakıt Pili Katalizör Destek Malzemesi olarak Sentezi ve Karakterizasyonu, Postgraduate, M.Hurşit(Student), 2019  
BAYRAKÇEKEN YURTCAN A., Süperkritik karbondioksit depozisyon tekniği ile hazırlanan grafen bazlı platin katalizörlerin sentezi, karakterizasyonu ve PEM yakıt pilinde kullanımı, Doctorate, E.Daş(Student), 2018  
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için metal oksit destekli katalizör geliştirilmesi, Postgraduate, M.Koray(Student), 2017  
BAYRAKÇEKEN YURTCAN A., İlaç salınımlarında silika yapıları ve carvedilolun süperkritik karbondioksit depozisyonu yöntemi ile yüklenmesi, Postgraduate, N.Özçelik(Student), 2016  
BAYRAKÇEKEN YURTCAN A., PEM yakıt pilleri için mikrogözenekli katman geliştirilmesi, Postgraduate, A.Öztürk(Student), 2016  
BAYRAKÇEKEN YURTCAN A., Farklı yapılarıdaki karbon aerogellerin sentezi ve karakterizasyonu, Postgraduate, M.Samancı(Student), 2015  
BAYRAKÇEKEN YURTCAN A., Polipirol ve farklı yapılarıdaki karbon tabanlı kompozitlerin hazırlanması ve karakterizasyonu, Postgraduate, H.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

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 Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021  
Doctorate, Doctorate, Ege Üniversitesi, January, 2021  
Appointment Academic Staff, 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  
Doctorate, Doctorate, Atatürk Üniversitesi, July, 2020  
Appointment Academic Staff, Appointment Academic Staff, Erciyes Üniversitesi, July, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, 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  
Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, May, 2020  
Appointment Academic Staff, Appointment Academic Staff, Erzurum Teknik Üniversitesi, January, 2020  
Doctoral Examination, Doctoral Examination, Koç Üniversitesi, January, 2020  
Post Graduate, DOĞRUDAN NaBH<sub>4</sub> 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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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.1, no.1, pp.1-19, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **Albedo parameters and effective atomic numbers of PEDOT/Carbon black composites**

YILMAZ D., BAYRAKÇEKEN YURTCAN A., Özer T. Ö., Memioğlu F.

Radiation Physics and Chemistry, vol.182, 2021 (Journal Indexed in SCI)

- IV. **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 (Journal Indexed in SCI)
- V. **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., Slijkic B., Santos D. M. F.  
JOURNAL OF ENERGY CHEMISTRY, vol.55, pp.428-436, 2021 (Journal Indexed in SCI)
- VI. **Simultaneously deposited Pt-alloy nanoparticles over graphene nanoplatelets via supercritical carbon dioxide deposition for PEM fuel cells**  
Daş E., Alkan Gürsel S., Bayrakçeken Yurtcan A.  
Journal Of Alloys And Compounds, vol.874, pp.159919-159930, 2021 (Journal Indexed in SCI Expanded)
- VII. **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, 2021 (Journal Indexed in SCI)
- VIII. **Preparation and characterization of melamine-lead nitrogen-doped carbon blacks at different pyrolysis temperatures**  
ÖZTÜRK A., BAYRAKÇEKEN YURTCAN A.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.296, 2021 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI Expanded)
- X. **Platinum/graphene nanoplatelets/silicone rubber composites as polymer electrolyte membrane fuel cell catalysts**  
ÖZTÜRK A., ÖZÇELİK N., BAYRAKÇEKEN YURTCAN A.  
MATERIALS CHEMISTRY AND PHYSICS, vol.260, 2021 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **Effect of solvent exchange on the properties of carbon xerogel and carbon xerogel/polypyrrole composites for supercapacitors**  
Samanci M., DAŞ E., BAYRAKÇEKEN YURTCAN A.  
Carbon Letters, 2021 (Journal Indexed in SCI Expanded)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **Evaluation of Low and High Surface Area TiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> 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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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, 2020 (Journal Indexed in SCI)
- XXI. **Drug loading with supercritical carbon dioxide deposition on different silica derivatives: Carvedilol study**  
ÖZÇELİK N., Yurtcan A.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.53, 2019 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **Development of effective catalysts for hydrogen generation from sodium borohydride: Ru, Pt, Pd nanoparticles supported on Co<sub>3</sub>O<sub>4</sub>**  
Bozkurt G., Özer A., Yurtcan A.  
ENERGY, vol.180, pp.702-713, 2019 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **Mn<sub>2</sub>O<sub>3</sub>-MO (MO = ZrO<sub>2</sub>, V<sub>2</sub>O<sub>5</sub>, WO<sub>3</sub>) supported PtNi nanoparticles: Designing stable and efficient electrocatalysts for oxygen reduction and borohydride oxidation**  
Martins M., MİLİKİĆ J., Slijkic B., Soylu G. S. P. , Yurtcan A., Bozkurt G., Santos D. M. F.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.273, pp.286-293, 2019 (Journal Indexed in SCI)
- XXVIII. **Carbon-Based Nanomaterials for Alcohol Oxidation**  
ÇÖGENLİ M. S. , Yurtcan A.  
NANOMATERIALS FOR ALCOHOL FUEL CELLS, vol.49, pp.1-78, 2019 (Journal Indexed in SCI)
- XXIX. **Hydrogen generation from sodium borohydride with Ni and Co based catalysts supported on Co<sub>3</sub>O<sub>4</sub>**  
Bozkurt G., ÖZER A., Yurtcan A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.49, pp.22205-22214, 2018 (Journal Indexed in SCI)
- XXX. **Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells**  
Oliveira R. C. P. , MİLİKİĆ J., DAŞ E., Yurtcan A., Santos D. M. F. , Slijkic B.

APPLIED CATALYSIS B-ENVIRONMENTAL, vol.238, pp.454-464, 2018 (Journal Indexed in SCI)

- XXXI. **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., Bayrakceken A., Mert S. O., Sahin O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.48, pp.21886-21898, 2018 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **Graphene aerogel supported platinum nanoparticles for formic acid electro-oxidation**  
ÇÖGENLİ M. S., BAYRAKÇEKEN YURTCAN A.  
MATERIALS RESEARCH EXPRESS, vol.5, no.7, 2018 (Journal Indexed in SCI)
- XXXV. **Catalytic activity, stability and impedance behavior of PtRu/C, PtPd/C and PtSn/C bimetallic catalysts toward methanol and formic acid oxidation**  
ÇÖGENLİ M. S., Yurtcan A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10698-10709, 2018 (Journal Indexed in SCI)
- XXXVI. **A novel Central Composite Design based response surface methodology optimization study for the synthesis of Pd/CNT direct formic acid fuel cell anode catalyst**  
Caglar A., Şahan T., ÇÖGENLİ M. S., Yurtcan A., Aktaş N., Kivrak H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.24, pp.11002-11011, 2018 (Journal Indexed in SCI)
- XXXVII. **PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?**  
Martins M., Sljukic B., Sequeira C. A. C., Soylu G. S. P., Yurtcan A., Bozkurt G., Sener T., Santos D. M. F.  
APPLIED SURFACE SCIENCE, vol.428, pp.31-40, 2018 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **Investigation of the Thermal Behavior of Polypyrrole/Carbon Nanotube Composites and Utilization as Capacitive Material or Support for Catalysts**  
BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A., Yurtcan A.

- CHEMICAL ENGINEERING COMMUNICATIONS, vol.204, no.8, pp.916-925, 2017 (Journal Indexed in SCI)
- XLIV. **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 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)
- XLVI. **Durability of carbon/conducting polymer composite supported Pt catalysts prepared by supercritical carbon dioxide deposition**  
BOZKURT G., MEMİOĞLU F., Yurtcan A.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.1, pp.117-124, 2016 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **High performance PEM fuel cell catalyst layers with hydrophobic channels**  
Avcioglu G. S., Ficilar B., Bayrakceken A., Eroglu I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.24, pp.7720-7731, 2015 (Journal Indexed in SCI)
- XLIX. **Membrane Electrode Assembly with Ultra Low Platinum Loading for Cathode Electrode of PEM Fuel Cell by Using Sputter Deposition**  
ÇÖGENLİ M. S., Mukerjee S., Yurtcan A.  
Fuel Cells, vol.15, no.2, pp.288-297, 2015 (Journal Indexed in SCI)
- L. **Synthesis and characterization of CuO at nanoscale**  
BOZKURT G., BAYRAKÇEKEN YURTCAN A., ÖZER A.  
APPLIED SURFACE SCIENCE, vol.318, pp.244-250, 2014 (Journal Indexed in SCI)
- LI. **Pt nanoparticles over PEDOT/carbon composites prepared by supercritical carbon dioxide deposition**  
Bozkurt G., Memioglu F., Bayrakceken A.  
APPLIED SURFACE SCIENCE, vol.318, pp.223-226, 2014 (Journal Indexed in SCI)
- LII. **Conducting carbon/polymer composites as a catalyst support for proton exchange membrane fuel cells**  
Memioglu F., BAYRAKÇEKEN YURTCAN A., ÖZNÜLÜER ÖZER T., AK M.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.38, no.10, pp.1278-1287, 2014 (Journal Indexed in SCI)
- LIII. **Platinum or nickel nanoparticles decorated on silica spheres by microwave irradiation technique**  
Bayrakceken A.  
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NEW JOURNAL OF CHEMISTRY, SCI Journal, April 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, April 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, April 2020  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, April 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, April 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, SCI Journal, March 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2020  
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TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2020  
International Journal Of Hydrogen Energy, SCI Journal, February 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2020  
ACS APPLIED ENERGY MATERIALS, SCI Journal, January 2020  
Fuel cells, SCI Journal, September 2019  
International Journal of Hydrogen Energy, SCI Journal, August 2019  
Fuel cells, SCI Journal, August 2019  
International Journal of Hydrogen Energy, SCI Journal, July 2019  
International Journal of Hydrogen Energy, SCI Journal, July 2019  
International Journal of Hydrogen Energy, SCI Journal, April 2019  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, March 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, May 2018  
ELECTROCHIMICA ACTA, SCI Journal, April 2018  
Journal of The Institute of Science and Technology, Other journals, March 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2018  
JOURNAL OF POWER SOURCES, SCI Journal, March 2017  
JOURNAL OF POWER SOURCES, SCI Journal, March 2017  
JOURNAL OF POWER SOURCES, SCI Journal, December 2016  
JOURNAL OF POWER SOURCES, SCI Journal, October 2016  
JOURNAL OF POWER SOURCES, SCI Journal, June 2016  
JOURNAL OF POWER SOURCES, SCI Journal, May 2016  
JOURNAL OF POWER SOURCES, SCI Journal, June 2015  
APPLIED SURFACE SCIENCE, SCI Journal, March 2014  
APPLIED SURFACE SCIENCE, SCI Journal, December 2013

## **Scientific Consultations**

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

## Tasks In Event Organizations

Bayrakçeken Yurtcan A., 3. Ulusal Karbon Konferansı, Scientific Congress, İstanbul, Turkey, Mart 2021  
Yurtcan M. T. , Bayrakçeken Yurtcan A., Başçı 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

## Edit Congress and Symposium Activities

4th International Symposium on Advanced Materials and Nanotechnology, Invited Speaker, Selayang-Baru, Malaysia, 2020  
International Symposium on Applied Sciences and Engineering, 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 ve Nanotechnology Conference, Invited Speaker, İstanbul, Turkey, 2014  
10th Nanoscience and Nanotechnology Conference, Attendee, 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 (Kkct), 2007  
Ulusal Kimya Mühendisliği Kongresi 6, Attendee, İzmir, Turkey, 2005  
International Hydrogen Energy Congress and Exhibition 2005, Attendee, Turkey, 2005

## Citations

Total Citations (WOS):1147  
h-index (WOS):23

## 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