

## Dr.Öğr.Üyesi ÖZGÜR AYDIN

### Kişisel Bilgiler

E-posta: ozgur.aydin@agu.edu.tr

Web: <https://avesis.agu.edu.tr/ozgur.aydin>

### Eğitim Bilgileri

Post Doktora, Kyushu Üniversitesi (JAPONYA), Mühendislik Fakültesi, Hidrojen Enerji Sistemleri, Japonya 2017 - 2019

Doktora, Kyushu Üniversitesi (JAPONYA), Mühendislik Fakültesi, Hidrojen Enerji Sistemleri, Japonya 2014 - 2017

Yüksek Lisans, Ulm Üniversitesi (ALMANYA), Enerji Dönüşüm ve Depolama Enstitüsü, Enerji Bilim ve Teknolojisi, Almanya 2011 - 2013

Lisans, Selçuk Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makina Mühendisliği, Türkiye 2005 - 2011

### Yabancı Diller

Almanca, C1 İleri

İngilizce, C2 Yeterlilik

Japonca, B2 Orta Üstü

### Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2019 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Performance and Durability of One-Cell Module of Biogas-Utilizing SOFC Equipped with Graded Indirect Internal Reformer**  
AYDIN Ö., Matsumoto G., Kubota A., Dang Long Tran D. L. T. , Sakamoto M., Shiratori Y.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.167, 2020 (SCI İndekslerine Giren Dergi)
- II. **Mass transport limitation in inlet periphery of fuel cells: Studied on a planar Solid Oxide Fuel Cell**  
Aydin O., Ochiai T., Nakajima H., Kitahara T., Ito K., Ogura Y., Shimano J.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, ss.17420-17430, 2018 (SCI İndekslerine Giren Dergi)
- III. **Designing graded catalytic domain to homogenize temperature distribution while dry reforming of CH<sub>4</sub>**  
Aydin O., Kubota A., Dang Long Tran D. L. T. , Sakamoto M., Shiratori Y.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, ss.17431-17443, 2018 (SCI İndekslerine Giren Dergi)
- IV. **Concentration Gradient of Reactants Extending from Reaction Sites Inward Inlet Periphery of Fuel Cells**  
Aydin O., Nakajima H.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.165, 2018 (SCI İndekslerine Giren Dergi)
- V. **Reliability of the numerical SOFC models for estimating the spatial current and temperature variations**  
Aydin O., Nakajima H., Kitahara T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, ss.15311-15324, 2016 (SCI İndekslerine Giren Dergi)

- VI. **Processes Involving in the Temperature Variations in Solid Oxide Fuel Cells In-Situ Analyzed through Electrode-Segmentation Method**  
Aydin O., Nakajima H., Kitahara T.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.163, 2016 (SCI İndekslerine Giren Dergi)
- VII. **Current and temperature distributions in-situ acquired by electrode-segmentation along a microtubular solid oxide fuel cell operating with syngas**  
Aydin O., Nakajima H., Kitahara T.  
JOURNAL OF POWER SOURCES, cilt.293, ss.1053-1061, 2015 (SCI İndekslerine Giren Dergi)
- VIII. **Challenges Associated with Measuring the Intrinsic Electrical Conductivity of Carbon Paper Diffusion Media**  
Aydin O., Zedda M., Zamel N.  
FUEL CELLS, cilt.15, ss.537-544, 2015 (SCI İndekslerine Giren Dergi)
- IX. **In-situ diagnosis and assessment of longitudinal current variation by electrode-segmentation method in anode-supported microtubular solid oxide fuel cells**  
Aydin O., Koshiyama T., Nakajima H., Kitahara T.  
JOURNAL OF POWER SOURCES, cilt.279, ss.218-223, 2015 (SCI İndekslerine Giren Dergi)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Indirect internal reforming SOFC accommodating graded-catalytic domain fabricated by paper-structured catalyst**  
AYDIN Ö., Matsumoto G., Kubota A., Tran D. L. , Sakamoto M., Shiratori Y.  
16th International Symposium on Solid Oxide Fuel Cells (SOFC-XVI), Kyoto, Japonya, 8 - 13 Eylül 2019, cilt.91, ss.1631-1640
- II. **Development of a Compact SOFC Module with Paper-structured Catalyst**  
Matsumoto G., AYDIN Ö., Sakamoto M., Sasaki K., Shiratori Y.  
The 27th SOFC Symposium in Japan, 13 - 14 Aralık 2018
- III. **Onset of Mass Transport Limitation in Inlet Periphery of Fuel Cells**  
AYDIN Ö., Ochiai T., Nakajima H., Kitahara T., Ito K., Ogura Y., Shimano J.  
HYPOTHESIS XIII (Hydrogen Power Theoretical and Engineering Solutions International Symposium), Singapur, Singapur, 24 - 27 Temmuz 2018
- IV. **Functionally-Graded Catalytic Domain for Homogenizing Temperature Distribution Along a Plate-Type Dry CH<sub>4</sub> Reformer**  
AYDIN Ö., Kubota A., Tran D. L. , Sakamoto M., Shiratori Y.  
HYPOTHESIS XIII (Hydrogen Power Theoretical and Engineering Solutions International Symposium), Singapur, Singapur, 24 - 27 Temmuz 2018
- V. **Development of Plate-type Reformer for Downsizing and Power Enhancement of SOFC**  
Kubota A., Tran D. L. , AYDIN Ö., Sakamoto M., Sasaki K., Shiratori Y.  
The 85th Electrochemical Society of Japan (ECSJ) Spring Meeting, Tokyo, Japonya, 9 - 11 Mart 2018
- VI. **Concentration Gradient of Reactants in Fuel Cells Extending from Reaction Sites Inward the Inlet Periphery**  
AYDIN Ö., Nakajima H., Kitahara T.  
European Fuel Cells Conference Exhibition (EFC17), Naples, İtalya, 12 - 15 Aralık 2017
- VII. **Reliability of Numerical SOFC Tools for Computing Spatial Current and Temperature Variations**  
AYDIN Ö., Nakajima H., Kitahara T.  
2nd International Hydrogen Technologies Congress, Adana, Türkiye, 15 - 18 Mart 2017
- VIII. **In Situ Measured Spatial Temperature Variations for Improving Reliability of Numerical SOFC Tools**  
Aydin O., Nakajima H., Kitahara T.  
15th International Symposium on Solid Oxide Fuel Cells (SOFC), Florida, Amerika Birleşik Devletleri, 23 - 28 Temmuz 2017, cilt.78, ss.2191-2201

- IX. Contributions to the Spatial Temperature Variations Emerging in SOFCs Elucidated via Combining Experimental and Numerical Techniques**  
AYDIN Ö., Nakajima H., Kitahara T.  
2016 Asian SOFC Symposium, Tokyo, Japonya, 4 - 07 Eylül 2016
- X. Accuracy of the Numerically Computed Spatial Current and Temperature Variations in SOFCs**  
AYDIN Ö., Nakajima H., Kitahara T.  
12th European SOFC SOE Forum 2016, Lucerne, İsviçre, 5 - 08 Temmuz 2016
- XI. Influence of convective heat transfer by air flow on local current/temperatures along microtubular solid oxide fuel cells in-situ identified by electrode-segmentation method for Co- and counter-flow configurations**  
AYDIN Ö., Nakajima H., Kitahara T.  
ECS Conference on Electrochemical Energy Conversion Storage with SOFC-XIV, Glasgow, İngiltere, 26 - 31 Temmuz 2015, cilt.68, ss.2141-2150
- XII. Experimental Evaluation of Internal Hydrocarbon Reforming Reaction in Microtubular SOFCs by Segmentation Method**  
AYDIN Ö., Koshiyama T., Nakajima H., Kitahara T.  
The 55th Battery Symposium in Japan, Kyoto, Japonya, 19 - 21 Kasım 2014
- XIII. Comprehensive understanding of electrical conductivity measurements of gas diffusion media of PEM fuel cells**  
AYDIN Ö., Zedda M., Zamel N., Groos U., Hebling C.  
20th World Hydrogen Energy Conference, WHEC 2014, Gwangju, Güney Kore, 15 - 20 Haziran 2014, cilt.1, ss.474

## **Atıflar**

Toplam Atıf Sayısı (WOS):59

h-indeksi (WOS):4