

Dr.Öğr.Üyesi ÖZGÜR AYDIN

Kişisel Bilgiler

E-posta: ozgur.aydin@agu.edu.tr
Web: <https://avesis.agu.edu.tr/ozgur.aydin>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-8814-6025
Yoksis Araştırmacı ID: 297974

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

İngilizce, C2 Ustalık
Almanca, C1 İleri
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. **Thermal stresses in SOFC stacks: the role of mismatch among thermal conductivity of adjacent components**
AYDIN Ö., Matsumoto G., Shiratori Y.
TURKISH JOURNAL OF CHEMISTRY, cilt.45, sa.3, ss.719-736, 2021 (SCI-Expanded)
- II. **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, sa.6, 2020 (SCI-Expanded)
- III. **Designing graded catalytic domain to homogenize temperature distribution while dry reforming of CH₄**
Aydin O., Kubota A., Dang Long Tran D. L. T., Sakamoto M., Shiratori Y.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.36, ss.17431-17443, 2018 (SCI-Expanded)
- IV. **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, sa.36, ss.17420-17430, 2018 (SCI-Expanded)

- V. **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, sa.5, 2018 (SCI-Expanded)
- VI. **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, sa.34, ss.15311-15324, 2016 (SCI-Expanded)
- VII. **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, sa.3, 2016 (SCI-Expanded)
- VIII. **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-Expanded)
- IX. **Challenges Associated with Measuring the Intrinsic Electrical Conductivity of Carbon Paper Diffusion Media**
 Aydin O., Zedda M., Zamel N.
 FUEL CELLS, cilt.15, sa.3, ss.537-544, 2015 (SCI-Expanded)
- X. **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-Expanded)

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), Singapore, Singapur, 24 - 27 Temmuz 2018
- IV. **Functionally-Graded Catalytic Domain for Homogenizing Temperature Distribution Along a Plate-Type Dry CH₄ Reformer**
 AYDIN Ö., Kubota A., Tran D. L., Sakamoto M., Shiratori Y.
 HYPOTHESIS XIII (Hydrogen Power Theoretical and Engineering Solutions International Symposium), Singapore, 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, Birleşik Krallık, 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

Metrikler

Yayın: 23
Atıf (WoS): 59
Atıf (Scopus): 61
H-İndeks (WoS): 4
H-İndeks (Scopus): 4