*International Symposium on Sustainable Aviation (ISSA-2019)

*International Symposium on Electric Aviation and Autonomous Systems (ISEAS-2019)

*WORKSHOP-1 Developing the Disruptive (Radically New) Technologies

*WORKSHOP-2 Developing and Impact of Electric/Hybrid Aircraft on Future Transport

CONFERENCE PROGRAM

Symposiums Founding Chair : Prof. Dr. T. Hikmet Karakoc
Symposiums Chair : Prof.Dr. Jozsef Rohacs
Symposiums Technical Chairs : Assoc. Prof. M.Ziya Sogut, Assoc.Prof. Onder Turan, Utku Kale

ISSA-2019 and ISEAS-2019 Conference Abstract Electronic Proceedings will be available on http://2019.issasci.org/ and http://2019.iseasci.org/ main pages during the conference. ISSA-2019 and ISEAS-2019 Conference Full-Paper Electronic Proceedings will be availed after the conference and a special share link will be sent to all symposium authors. *Electronic Proceedings availed only, No Hardcopy format.*

*The Symposiums and Workshops are supported by IDEA-E (Investigation and development of disruptive technologies for e-mobility and their integration into the engineering education)"

Project Identification Number: **EFOP-3.6-1-16-2016-00014.**

(Sunday, **Day$_1$**)-**26 May 2019-** Final Conference Program Announcement		
(Monday, **Day$_2$**)- **27 May 2019 Location: (BME*)** **BME - (Budapest University of Technology and Economics)*		
	11:00-13:00	**Keynotes and Committee Meeting-**Building J-4th Floor
	13:00-14:00	**Registration-** Building A
27 May 2019 (Monday) (DAY$_2$)- Building A		
13:30 – 14:15	**ISSA/ISEAS-2019** OPENING CEREMONY **Welcome Speech** **Prof. Dr. T. Hikmet Karakoc**, ISSA/ISEAS-2019 Symposium Founding Chair Eskisehir Technical University, TURKEY **Prof.Dr. Jozsef Rohacs,** ISSA/ISEAS-2019 Symposium Chair Budapest University of Technology and Economics (BME), HUNGARY **Assoc. Prof. Dr. Konstantinos Stamoulis,** Chairman of ISATECH-2019 Amsterdam University of Applied Sciences, Faculty of Technology, Aviation Academy, Amsterdam, The NETHERLANDS **Assoc. Prof. Dr. Ir.Ts.Abd. Rahim Abu Talib ,** Chairman of ISSA-2020 University Putra Malaysia, MALAYSIA	
14:15-16:00	**Keynote Speaker-I Talk** Chair: Prof.Dr. Jozsef Rohacs, Co-Chair: Carlos Javier Munoz Garcia Tech.Co-Chairs:Utku Kale, Batuhan Ballı	
14:15-14:45	**Prof. Dr. Oleksandr Zaporozhets** - Technology Readiness Level Assessment Towards Flightpath 2050 Environmental Goals	
14:45-15:15	**Dr. Ravi Rajamani** - New Development in Standards for Aerospace Industry	
15:15-15:45	**Assoc. Prof. Dr. Konstantinos Stamoulis** - Data Analytics in Aviation MRO: Towards Efficient and Sustainable Processes	
15:45 – 16:00	**Networking Break**	
16:00 –17:20	**Keynote-II and Invited Speaker Talk** Chair: Dr. Ravi Rajamani , Co-Chair: Dr. Kateryna Synylo Tech.Co-Chairs:Utku Kale, Batuhan Ballı	
16:00-16:30	**Prof.Dr. Claudio Scarponi** - New Challanges for Civil Aviation in Europe	
16:30-17:00	**Prof. Dr. Sergii V. Boichenko** - Fundamentals of Implementation of Alternative Jet Fuels: Modern Challenges, Problems and Practical Experience	
17:00-17:20	**Invited Speaker- Dr. Tunc Sirinyıldız –** Geographic Information System in Aviation Industry	
17:45-20:30 Welcome Party (Main Building- K) 18:00 SARES Science Awards Ceremony (Main Building- K)		

DETAILS

(Tuesday, Day3) 28 May 2019 – Building J (BME)

Paralel Sessions	ROOM 1 ISSA-2019 Session 1: Disruptive (Radically New) TechnologyDevelopment-**(IDEAE*)** Chair: Dr. Claudio Scarponi, Co-Chair: Dr. Melih Yıldız Tech. Co-Chairs: Murat Ayar, Sergey Kinzhikeyev	ROOM 2 ISSA-2019 Session 2: Modeling and Design Chair: Dr. Konstantinos Stamoulis, Co-Chair: Dr.Isıl Yazar Tech. Co-Chairs: Mehmet E. Cılgın, Veng Lajos Tamas	ROOM 3 ISEAS-2019 Session 3:Emerging Technologies Chair: Dr. A. Rahim Abu Talib , Co-Chair: Carlos J. M. Garcia Tech. Co-Chairs:Hakan Aygun, Dung Nguyen Dinh
09:00-09:20	#61-Agnes Wangai, Sergey Kinzhikeyev, Jozsef Rohacs, Influences of Economic Cycles on Future Sustainable Air Transport	#12-Eralp Sener, Gurhan Ertasgin, Isil Yazar,Electrical Architecture Design for a Turbo Electric Aircraft Propulsion System on Matlab / Simulink	(4)-Serhat Burmaoglu, Kemal Yayla, Emerging Technologies in Aviation: Reviewing the Case of Blockchain
09:20-09:40	#14-Istvan Gal, David Sziroczak, Influences of the Emerging Disruptive Technologies, Solutions on Future Aviation	#16-Shali N.Subramanian, Nikos J. Mourtos, Design of Electric Short-Takeoff and Landing Autonomous Single-Passenger Aerial Vehicle	(25)-Andras Nagy, Attila Szabo, Enhanced Motor Technology for Electric Aircraft
09:40-10:00	#28-Murat Ayar, Caner Acarbay, T. Hikmet Karakoc, Sustainability Assessment of Flight Training Programs	#40-Marco Fioriti, Guido Pavan, A Design Model for Electric Environmental Control System in Aircraft Conceptual and Preliminary Design	(5)-Serhat Burmaoglu, Kemal Yayla, Darius Miniotas, Scientometric Review of Aviation Safety and Security
10:00-10:20	#15-Rupa S. Gunnam, Design of a Regional Hybrid Transport Aircraft		(74)-Hakan Aygun, Onder Turan, Effects of Some Design Parameters on Variable Cycle Engine (VCE) Model at Different Flight Conditions
10:20:10:40	**Networking Break**		
	ROOM 1 ISSA-2019 Session 4: Performance and Design Chair: Dr. Sergii Boichenko , Co-Chair: Dr.Isıl Yazar Tech. Co-Chairs: Murat Ayar, Sergey Kinzhikeyev	ROOM 2 ISSA-2019 Session 5: Environment Chair:Dr. Oleksandr Zaporozhets, Co-Chair: Dr. Melih Yıldız Tech. Co-Chairs: Mehmet E. Cılgın, Veng Lajos Tamas	ROOM 3 ISEAS-2019 Session 6: Disruptive(Radically New) Technology Development-II (**IDEA-E***) Chair: Dr. Ravi Rajamani, Co-Chair: Carlos J. M. Garcia Tech. Co-Chairs: Hakan Aygun, Dung Nguyen Dinh
10:40-11:00	#4- Jozsef Rohacs, Role of Vision, Foresight and Forecast in Maintaining the Future Sustainable Aviation	#21-Larysa Cherniak, Margaryta Radomska, Oleksandr Mikhyeyev, Svitlana Madzhd, The Assessment of Environmental Risks from Airport Fuel Depots	(24)-Agnes Wangai, Dung Nguyen, Daniel Rohacs, Forecasts of Electric Hybrid-Electric Aircraft
11:00-11:20	#2-Chin E. Lin, Yun-Chao Chan, Pei-Chi Shao, Tsung-Cheng Chen, Performance Analysis of Wing-in-Ground-Effect (WIG) UAV	#17-Ozan Ozturk, Melih Yildiz, A Methodology for Calculating Emissions of an Aircraft Throughout Its Flight Phases	(18)-Gorkem Yalin, Emre Ozbek ,Levent Akyalcin,Can O. Colpan ,T. Hikmet Karakoc, Design and Preliminary Flight Tests of Hydrogen Fuel Cell Hybrid Unmanned Aerial Vehicle
11:20-11:40	#59-Agnes Wangai, Maciej Maczka, AdriaanDeGraaff,Lidia Travascio, Mario Solazzo, Daniel Rohacs, Developing a General Methodology for Forecasting the Demand in Small / Personal Aircraft	#20-M. Ziya Sogut, Investigation of Thermodynamics Performance of Small Scale Turbojet Engine for Different Ambient Temperature	(9)-Diego Lentini, Hernán Emilio Tacca, Opportunities and Challenges for Electric Propulsion of Airliners
11:40-12:00			(1)-Farbod Khoshnoud, Zahir D., Gerard J., George G., Oliver S., Nejc T., Robert L., Marco Q., Mohamed D., Daniel P,, Energy Independent Solar-Fuel Cell Multirotor UAVs
12:00-13:15 Networking Lunch			

IDEA-E*-(Workshops supported by IDEA-E)- *(Investigation and Development of the Disruptive Technologies for E-Mobility and Their Integration into the Engineering Education) is a Hungarian National Project which is supported by the Human Resource Development Operative Programme (EFOP), Contract number. EFOP-3.6.1-16-2016-00014, Budapest, Kecskemét, Szeged, 2017 – 2019*

(Tuesday, Day3) 28 May 2019

Video Conference Session (Budapest Local Time)	ISSA/ISEAS-2019 **Video Session** Chair: Dr. M.Ziya Sogut, Co-Chair: Dr. Elif Koruyucu, Technical Co-Chairs:Utku Kale, Batuhan Ballı, Tareq I.Al-Ma'aiteh ROOM 4 ISSA (#)/ISEAS ()-2019 * https://www.facebook.com/saressociety/ for online connection
9:00-9:20	(14)-Vladislav Zitrický, Vladimír Ľupták, Ondrej Stopka, Mária Stopková, Comparative Analysis in terms of Environmental Impact Assessment between Railway and Air Passenger Transport Operation: A Case Study
9:20-9:40	(7)-Dominique Mojay, Emerging Technologies and Demands for Electric Aircraft Propulsion Systems and Motors
9:40-10:00	(76)- Goksel Keskin, Seyhun Durmus, Hasim Kafalı, The Developments in Electric-Powered Motor Gliders
10:00-10:20	(72)-Ramazan Atilgan, Onder Turan, Economy and Exergy of a Turboprop Engine at Dynamic Loads
10:20-10:40	#30- Burak Tarhan, Ozge Yetik, Kadir K. Apaydin, T. Hikmet Karakoc, Study on the Electrical Energy of Cylinderical Battery Cells for Hibrit Aircraft
10:40-11:00	#75-Ozge Yetik, T. Hikmet Karakoc, Thermal Analysis of Li-Ion Batteries with Cathode Lımn2o4 for Hibrit Aircraft
11:00-11:20	#49-Ozge Yetik, Burak Tarhan, T. Hikmet Karakoc, The Numerical and Experimental Analysis of Thermal Modeling of Li-Ion Batteries Used in Hybrid Aircraft
Poster Session	**10:00-12:00**-Building J (Tuesday and Wednesday)
13:00-13:15	Gratitude Award Ceremony **Burak Pehlivan** - Chairman of International Turkish Ukranian Business Association (TUID)
Keynote Session-II	**Keynote Speaker-III Talk**- BME-Building A Chair: Dr. Claudio Scarponi , Co-Chair: Dr. Konstantinos Stamoulis Tech.Co-Chairs: Murat Ayar, Sergey Kinzhikeyev
13:15-13:45	**Mr. Carlos Javier Munoz Garcia** - Certification of Lithium Batteries for Electric and Hybrid Aviation
13:45-14:15	**Assoc. Prof. Ir. Ts. Dr. Abdul Rahim Abu Talib** - Recent Development of Electric and Hybrid Propulsion System: Issues and Challenges
14:15-14:45	**Networking Break**
Workshop 15:00-16:30	Moderator: Dr. Jozsef Rohacs , Chair: Dr. Ravi Rajamani **Workshop : Round Table Discussion** **Topic:** Developing and Impact of Electric/Hybrid Aircraft on Future Transport, ***(IDEA-E*)*** *(All the Keynotes are honoured to join the round-table discussion)*

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Paralel Sessions	ROOM 1 ISSA-2019 Session 7: Fuel and Energy Chair: Dr. Sergii Boichenko, Co-Chair: Dr. Melih Yıldız Tech.Co-Chairs: Sergey Kinzhikeyev, Tareq I.Al-Ma'aiteh	ROOM 2 ISSA-2019 Session 8:Emerging Technologies -I Chair: Dr. Michael Herrera , Co-Chair: Carlos J. M. Garcia Tech.Co-Chairs: Mehmet E. Cılgın, Dung Nguyen Dinh	ROOM 3 ISEAS-2019 Session 9: Design/UAV-Hybrid Aircraft Chair:, Dr. Arpad Veress, Co-Chair: Dr. Kateryna Synylo Tech.Co-Chairs:Hakan Aygun, Agnes Wangai
09:00-09:20	#42-Valeriia Kameneva, Olena Shevchenko, Alena Shkekina, The Influence of Biodiesel on Structural Materials	#10-Wim Lammen, Jos Vankan , Electrification Studies of Single Aisle Aircraft: A 'Retrofit' Investigation Including Parallel Hybrid Electric Propulsion	(19)- Istvan Jankovics, Istvan Gal, David Sziroczák, Arpad Veress, Daniel Rohacs, Conceptual Design of a 4-Seater Electric Aircraft
09:20-09:40	#23-M. Ziya Sogut ,Investigation of Emission Inventory Considering Alternative Jet In Flight Processes	#37-Nguyen Dinh Dung, A Developed Particle Swarm Optimization Algorithm for Managing Drones In Smart Cities	(20)- Gyorgy Bicsak, David Sziroczak, Jozsef Rohacs, Conceptual Design of a Cargo Hybrid UAVwith Morphing Wing
09:40-10:00	#24-Anna Yakovlieva, Sergii Boichenko, Kazimierz Lejda, Characteristics of Properties of Alternative Jet Fuels Based on Camelina Oil	#63-Gabor Horvath, Andor Körmöczi, Tamás Szörényi, Zsolt Geretovszky, Laser Welding and Its Implementation in the Assembly of Hybrid Aircraft Battery Packs	(21)- David Sziroczak , Case Study on Development and Building of A Cargo Hybrid UAV Demonstration Model
10:00-10:20	#78- Lajos Végh, István Jankovıcs, Utku Kale, The Feasibility of Usage of Electric Motors in Aviation / The Feasibility of Apply of The Electric Motor In Aviation at Different Speed and Power Ranges	#62-Andor Körmöczi, Gábor Horváth, Tamás Szörényi, Zsolt Geretovszky, Laser Assisted Filler Based Joining Technologies for Battery Assembly in Aviation Assembly in Aviation	(78)-Guillem Moreno, Arpad Veress, Range Analysis of a 4-Seat Light Aircraft by Means of Conventional, Electrik and Hybrid Propulsion Systems
10:20:10:40	**Networking Break**		
	ROOM 1 ISSA-2019 Session 10: Emerging Technologies -II Chair: Dr. A.Rahim Abu Talib, Co-Chair: Dr. Istvan Gal Tech.Co-Chairs: Sergey Kinzhikeyev, Tareq I.Al-Ma'aiteh	ROOM 2 ISSA-2019 Session 11: Disruptive (Radically New) Technology Development-III (**IDEA-E***) Chair: Dr. Michael Herrera , Co-Chair: Dr. Isıl Yazar Tech.Co-Chairs: Mehmet E. Cılgın, Dung Nguyen Dinh	ROOM 3 ISEAS-2019 Session 12: Energy and Environment Chair: Dr. Arpad Veress , Co-Chair: Dr. Kateryna Synylo Tech.Co-Chairs:Hakan Aygun, Agnes Wangai
10:40-11:00	#27-Murat Ayar, T. Hikmet Karakoc, Examining Additive Manufacturing Processes for Aircraft Interior	#7- Utku Kale, Role of Operators in Future Highly Automated Aviation	(11)-Kateryna Synylo, Andrii Krupko, Oleksandr Zaporozhets ,Rans Simulation of Exhaust Gases Jet From Aircraft Engine
11:00-11:20	#26-Jerome Leary, Molecular Dynamics Modelling of Slip: Study of the Potential to Reduce Aircraft Drag by Use of Graphene	#70- Michael Herrera, Utku Kale, Avoiding Pragmatic Failure in Aviation Communication	(71)-Hakan Aygun, Onder Turan, Exergetic Sustainability Analysis of Adaptive-Cycle Aero-Engine in Various Bypass Modes
11:20-11:40	#58-Sergey Kinzhikeyev, Agoston Restas, Drone Applications for Supporting the Disaster Strategic Resonse Management the Transport System	#54-Batuhan Balli, Murat Ayar, T. Hikmet Karakoc,Priorization of Safety Culture Components of ATO	(65)- Munir Suner, Contemporary Analysis of Air Plane Related Emission in the Airport Region
11:40-12:00	#6-Melih Yildiz, Savas Mutlu, Electric Ground Support Equipment Use in Civil Aviation: Advantages, Limitations and Recommendations	#48-Vehbi E. Atasoy, The Importance of Maintenance and Repair in the Flight Training Organization	(70) -Oleksandr Zaporozhets, Larisa Levchenko, Kateryna Synylo, Risk and Exposure Control of Aviation Impact on Environment
12:00-12:20	#74-Sena Pehlivan, Economic Impacts of Aviation	#3-Mehmet E. Cilgin, Onder Turan, An Exergetic Sustainability Assessment for an Aircraft Turbofan Engine	(6)-İlhan Aytutuldu, ,M.Ziya Sogut, Investigation of Pollutant Management of Cabin Air Considering Machine Learning Approach
12:30-12:45 CLOSING CEREMONY			

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Poster Session

ISSA-2019

1. #35-Veli G. Demir, Enver Yalcin, M. Ziya Sogut, T. Hikmet Karakoc, An Overview of Ethanol As a Bio-Jet Fuel Source
2. #64-Stanislav Szabo, Edina Jencova, Iveta Vajdova, Lucia Melnikova, Environmental Impact of Air Accidents of Aircraft Up To 2000kg MTOW
3. #32-Onur Yasar, Enver Yalcin, M. Ziya Sogut, T. Hikmet Karakoc, An Investigation On Pre-Conditioned Air Systems for Aircrafts
4. #25-Valentina Petrusenko, Larysa Cherniak, Tatyana Dmitrukha, Quantitative Risks Assessment at Consumption of Water Contaminated with Toxicants
5. #19-Ahmet Topal, Altug Piskin, Onder Turan, Preliminary Design of a Gas Turbine Combustor Considering Temperature Deviations Due to Manufacturing Tolerances
6. #9-Wei-Cheng Wang, Perspective of Renewable Jet Fuel in Taiwan: Process Evaluation Through Techno-Economic Analysis
7. #11-Guobin Zhang, Yun Wang, Kui Jiao, A Comprehensive Study of Current Density Distribution in Proton Exchange Membrane Fuel Cell
8. #22-M. Ziya Sogut,Investigation of Low Emission Combustion Technologies In Gas Turbine By Force Field Analysis
9. #71-Murat Ayar, Alper Dalkıran, T. Hikmet Karakoc, Assessment of Airport Sustainability Factors
10. #73-Ahmet Topal, Onder Turan ,Semi-Empirical Combustion Efficiency Prediction of a Tubular Combustor
11. #76-Hakan Aygun, Mehmet E. Cılgın, Onder Turan, Energy and Performance Optimization of an Adaptive Cycle Engine
12. #18-Kateryna Synylo, Kateryna Ulianova, Oleksandr Zaporozhets , Air Quality Studies at Kyiv International Airport
13. #5-S. Ahmad Fazelzadeh, Abbas Mazidi, Jonathan E. Cooper, Dewey H. Hodges, John E. Mottersheade, Flutter Analysis of Distributed Electric Propulsion Aircraft Wings
14. #18-Kateryna Synylo, Kateryna Ulianova, Oleksandr Zaporozhets , Air Quality Studies at Kyiv International Airport
15. #29-Tuna Karali, Elif Koruyucu, T. Hikmet Karakoc, A Study: Focus the Sustainability within the Scope of Analysing Aircraft Engines
16. #77-Razvan E.Nicoara, Valeriu A. Vilag, Zoltan Kolozsvary, Axial Turbine Performance Estimation During Dynamic Operations
17. #66-Munir Suner, Aerodynamics Performance of the Airfoil Profiles According to Different Length and Tickness
18. #79- Sena Pehlivan, Social and Environmental Impacts of Aviation
19. #80-Orhan Aras, Emre Ozbek, T.Hikmet Karakoc, Energy Consumption Profile of a Mini Electric UAV on Autonomous

ISEAS-2019

1. (2)-Emre Aras, Ugur Baysal, Investigating the Performance of Enhancement Mode Gan HFETS in Zvs Synchronous Buck Point of Load Converter
2. (16)-Murat Ayar, T. Hikmet Karakoc, Examination of Combustion to Electric Aircraft Transformations
3. (17)-Mine Sertsoz, Mehmet Fidan,Finding Energy Consumption of Light Rail Vehicle with a New Mathematical Model
4. (73)- Ahmet Topal, Onder Turan, Semi-Empirical Emission Correlations for an Experimental Tubular Combustor
5. (75)-Elif Koruyucu, Onder Altuntas, Hasan Yamik, T. Hikmet Karakoc, Applications of Fuel Cells in Aviation
6. (77)-Altug Piskin, Mete Uysal, Onder Turan, Aerothermodynamic Analysis of an AWASC Propulsion System
7. (13)-Murat Ayar, Onur Yasar, T. Hikmet Karakoc, PIV Particle Selection to Be Used For UAV Flow Visualization
8. (81)-Tareq I. Al-Ma'teh , Utku Kale, Thermoelectric Unit Modeling in Aircraft Applications
9. (82)-Tareq I. Al-Ma'teh , Emanuela Ferrero,Ali Gharaibeh, Ayham Aljawabrah, Utku Kale, Review Paper on Development of the Thermoelectric Technolgy in Aircraft Applications

Video Conference Session

ISSA-2019

1.	#30- Burak Tarhan, Ozge Yetik, Kadir K. Apaydin, T. Hikmet Karakoc, Study on the Electrical Energy of Cylinderical Battery Cells for Hibrit Aircraft
2.	#75-Ozge Yetik, T. Hikmet Karakoc, Thermal Analysis of Li-Ion Batteries with Cathode Lımn2o4 for Hibrit Aircraf
3.	#49-Ozge Yetik, Burak Tarhan, T. Hikmet Karakoc, The Numerical and Experimental Analysis of Thermal Modeling of Li-Ion Batteries Used in Hybrid Aircraft

ISEAS-2019

1.	(14)-Vladislav Zitrický, Vladimír Ľupták, Ondrej Stopka, Mária Stopková, Comparative Analysis in terms of Environmental Impact Assessment between Railway and Air Passenger Transport Operation: A Case Study
2.	(72)-Ramazan Atılgan, Onder Turan, Economy and Exergy of a Turboprop Engine at Dynamic Loads
3.	(7)-Dominique Mojay, Emerging Technologies and Demands for Electric Aircraft Propulsion Systems and Motors
4.	(76)- Goksel Keskin, Seyhun Durmuş, Hasim Kafalı, The Developments in Electric-Powered Motor Gliders

CONFERENCE GUIDE-I (Paper List)

CONFERENCE SUBMISSION LIST (ISSA-2019)

	ISSA-Paper ID #, Author(s), Title
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2	#27-Murat Ayar, T. Hikmet Karakoc, Examining Additive Manufacturing Processes for Aircraft Interior
3	#28-Murat Ayar, Caner Acarbay, T. Hikmet Karakoc, Sustainability Assessment of Flight Training Programs
4	#12-Eralp Sener, Gurhan Ertasgin, Isıl Yazar, Electrical Architecture Design for a Turbo Electric Aircraft Propulsion System on Matlab / Simulink
5	#54-Batuhan Balli, Murat Ayar, T. Hikmet Karakoc, Priorization of Safety Culture Components of ATO
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15	#42-Valeriia Kameneva, Olena Shevchenko, Alena Shkekina, The Influence of Biodiesel on Structural Materials
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29	#18-Kateryna Synylo, Kateryna Ulianova, Oleksandr Zaporozhets , Air Quality Studies at Kyiv International Airport
30	#19-Ahmet Topal, Altug Piskin, Onder Turan, Preliminary Design of a Gas Turbine Combustor Considering Temperature Deviations Due to Manufacturing Tolerances
31	#9-Wei-Cheng Wang, Perspective of Renewable Jet Fuel in Taiwan: Process Evaluation Through Techno-Economic Analysis
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36	#49-Ozge Yetik, Burak Tarhan, T. Hikmet Karakoc, The Numerical and Experimental Analysis of Thermal Modeling of Li-Ion Batteries Used in Hybrid Aircraft
37	#6-Melih Yıldız, Savas Mutlu, Electric Ground Support Equipment Use in Civil Aviation: Advantages, Limitations and Recommendations
38	#17-Ozan Ozturk, Melih Yıldız, A Methodology for Calculating Emissions of an Aircraft Throughout Its Flight Phases
39	#11-Guobin Zhang, Yun Wang, Kui Jiao, A Comprehensive Study of Current Density Distribution in Proton Exchange Membrane Fuel Cell
40	#4-Jozsef Rohacs, Role of Vision, Foresight and Forecast in Maintaining the Future Sustainable Aviation
41	#7- Utku Kale, Role of Operators in Future Highly Automated Aviation
42	#14-Istvan Gal, David Sziroczak, Influences of the Emerging Disruptive Technologies, Solutions on Future Aviation
43	#70- Michael Herrera, Utku Kale, Avoiding Pragmatic Failure in Aviation Communication
44	#71-Murat Ayar, Alper Dalkıran, T. Hikmet Karakoc, Assessment of Airport Sustainability Factors
45	#73-Ahmet Topal, Onder Turan, Semi-Empirical Combustion Efficiency Prediction of a Tubular Combustor
46	#74-Sena Pehlivan, Economic Impacts of Aviation

47	#75-Ozge Yetik, T. Hikmet Karakoc, Thermal Analysis of Li-Ion Batteries with Cathode Lımn2o4 For Hibrit Aircraft
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