

Remzi Can Samsun

List of Publications by Year in descending order

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64
papers

1,740
citations

257450
24
h-index

289244
40
g-index

67
all docs

67
docs citations

67
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Power-to-fuel as a key to sustainable transport systems – An analysis of diesel fuels produced from CO ₂ and renewable electricity. Fuel, 2017, 205, 198-221.	6.4	138
2	A review of high-temperature polymer electrolyte membrane fuel-cell (HT-PEMFC)-based auxiliary power units for diesel-powered road vehicles. Journal of Power Sources, 2016, 311, 91-102.	7.8	127
3	H ₂ -based synthetic fuels: A techno-economic comparison of alcohol, ether and hydrocarbon production. International Journal of Hydrogen Energy, 2020, 45, 5395-5414.	7.1	109
4	Design and test of a 5 kW high-temperature polymer electrolyte fuel cell system operated with diesel and kerosene. Applied Energy, 2014, 114, 238-249.	10.1	87
5	Methanol as a renewable energy carrier: An assessment of production and transportation costs for selected global locations. Advances in Applied Energy, 2021, 3, 100050.	13.2	81
6	Autothermal reforming of commercial Jet A-1 on a 5kWe scale. International Journal of Hydrogen Energy, 2007, 32, 4847-4858.	7.1	72
7	How to reduce the greenhouse gas emissions and air pollution caused by light and heavy duty vehicles with battery-electric, fuel cell-electric and catenary trucks. Environment International, 2021, 152, 106474.	10.0	65
8	A techno economic analysis of the power to gas route. Journal of CO ₂ Utilization, 2019, 34, 616-634.	6.8	61
9	The separation of CO ₂ from ambient air – A techno-economic assessment. Applied Energy, 2018, 218, 361-381.	10.1	56
10	Fuel cell systems with reforming of petroleum-based and synthetic-based diesel and kerosene fuels for APU applications. International Journal of Hydrogen Energy, 2015, 40, 6405-6421.	7.1	55
11	A novel reactor type for autothermal reforming of diesel fuel and kerosene. Applied Energy, 2015, 150, 176-184.	10.1	51
12	Fuel Processing of Diesel and Kerosene for Auxiliary Power Unit Applications. Energy & Fuels, 2013, 27, 4386-4394.	5.1	50
13	Deployment of Fuel Cell Vehicles and Hydrogen Refueling Station Infrastructure: A Global Overview and Perspectives. Energies, 2022, 15, 4975.	3.1	48
14	Long-term stability at fuel processing of diesel and kerosene. International Journal of Hydrogen Energy, 2014, 39, 18027-18036.	7.1	38
15	Off-grid power-to-fuel systems for a market launch scenario – A techno-economic assessment. Applied Energy, 2019, 250, 1099-1109.	10.1	37
16	Test of a water-gas-shift reactor on a 3kWe-scale – design points for high- and low-temperature shift reaction. Journal of Power Sources, 2005, 152, 189-195.	7.8	35
17	A battery-fuel cell hybrid auxiliary power unit for trucks: Analysis of direct and indirect hybrid configurations. Energy Conversion and Management, 2016, 127, 312-323.	9.2	34
18	Promising catalytic synthesis pathways towards higher alcohols as suitable transport fuels based on H ₂ and CO ₂ . Journal of CO ₂ Utilization, 2018, 27, 223-237.	6.8	33

#	ARTICLE	IF	CITATIONS
19	Greener production of dimethyl carbonate by the Power-to-Fuel concept: a comparative techno-economic analysis. <i>Green Chemistry</i> , 2021, 23, 1734-1747.	9.0	31
20	Advances in autothermal reformer design. <i>Applied Energy</i> , 2017, 198, 88-98.	10.1	29
21	The impact of diesel vehicles on NOx and PM10 emissions from road transport in urban morphological zones: A case study in North Rhine-Westphalia, Germany. <i>Science of the Total Environment</i> , 2020, 727, 138583.	8.0	29
22	Evaluation of multifunctional fuel cell systems in aviation using a multistep process analysis methodology. <i>Applied Energy</i> , 2013, 111, 46-63.	10.1	28
23	Analysis and optimization of solid oxide fuel cell-based auxiliary power units using a generic zero-dimensional fuel cell model. <i>Journal of Power Sources</i> , 2011, 196, 9500-9509.	7.8	25
24	HT-PEFC Systems Operating with Diesel and Kerosene for APU Application. <i>Energy Procedia</i> , 2012, 29, 541-551.	1.8	25
25	A diesel fuel processor for fuel-cell-based auxiliary power unit applications. <i>Journal of Power Sources</i> , 2017, 355, 44-52.	7.8	25
26	An Overview of Promising Alternative Fuels for Road, Rail, Air, and Inland Waterway Transport in Germany. <i>Energies</i> , 2022, 15, 1443.	3.1	25
27	Heat exchanger design for autothermal reforming of diesel. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11830-11846.	7.1	24
28	Electrical start-up for diesel fuel processing in a fuel-cell-based auxiliary power unit. <i>Journal of Power Sources</i> , 2016, 302, 315-323.	7.8	23
29	Recent advances in diesel autothermal reformer design. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2279-2288.	7.1	22
30	Elimination of by-products of autothermal diesel reforming. <i>Chemical Engineering Journal</i> , 2016, 306, 107-116.	12.7	20
31	An integrated diesel fuel processing system with thermal start-up for fuel cells. <i>Applied Energy</i> , 2018, 226, 145-159.	10.1	20
32	Catalytic burner with internal steam generation for a fuel-cell-based auxiliary power unit for middle distillates. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4131-4142.	7.1	18
33	Operating strategies for fuel processing systems with a focus on water-gas shift reactor stability. <i>Applied Energy</i> , 2016, 164, 540-552.	10.1	18
34	An autothermal reforming system for diesel and jet fuel with quick start-up capability. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27749-27764.	7.1	17
35	Reforming of diesel and jet fuel for fuel cells on a systems level: Steady-state and transient operation. <i>Applied Energy</i> , 2020, 279, 115882.	10.1	15
36	Future Power Train Solutions for Long-Haul Trucks. <i>Sustainability</i> , 2021, 13, 2225.	3.2	14

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37	Start-up of HT-PEFC Systems Operating with Diesel and Kerosene for APU Applications. Fuel Cells, 2014, 14, 266-276.	2.4	13
38	A Techno-Economic Assessment of Fischer-Tropsch Fuels Based on Syngas from Co-Electrolysis. Processes, 2022, 10, 699.	2.8	13
39	Operational Experience from a 5 kWe HT-PEFC System with Reforming of Diesel and Kerosene. ECS Transactions, 2013, 58, 165-174.	0.5	12
40	Spray formation of middle distillates for autothermal reforming. International Journal of Hydrogen Energy, 2017, 42, 16946-16960.	7.1	11
41	Water-gas shift reactor for fuel cell systems: Stable operation for 5000 hours. International Journal of Hydrogen Energy, 2018, 43, 19222-19230.	7.1	11
42	Autothermal Reforming of Jet A-1 and Diesel: General Aspects and Experimental Results. ECS Transactions, 2008, 12, 589-600.	0.5	10
43	Quantitative analysis of sub-ppm traces of hydrocarbons in the product gas from diesel reforming. International Journal of Hydrogen Energy, 2019, 44, 4020-4030.	7.1	10
44	Thermodynamic and ecological preselection of synthetic fuel intermediates from biogas at farm sites. Energy, Sustainability and Society, 2020, 10, .	3.8	10
45	Enhancing the Efficiency of SOFC-Based Auxiliary Power Units by Intermediate Methanation. Fuel Cells, 2012, 12, 474-486.	2.4	7
46	Investigation of Operating Parameters in Conjunction with Catalyst Deactivation of the Water-Gas Shift Reactor in a Fuel Cell System. ECS Transactions, 2015, 65, 99-114.	0.5	7
47	The biogas-oxyfuel process as a carbon source for power-to-fuel synthesis: Enhancing availability while reducing separation effort. Journal of CO2 Utilization, 2021, 45, 101410.	6.8	7
48	Start-up and Load-Change Behavior of a Catalytic Burner for a Fuel-Cell-Based APU for Diesel Fuel. Fuel Cells, 2015, 15, 15-26.	2.4	6
49	Property Data Estimation for Hemiformals, Methylene Glycols and Polyoxymethylene Dimethyl Ethers and Process Optimization in Formaldehyde Synthesis. Energies, 2020, 13, 3401.	3.1	6
50	Highly integrated catalytic burner with laser-additive manufactured manifolds. Reaction Chemistry and Engineering, 2017, 2, 437-445.	3.7	5
51	The autothermal reforming of oxymethylenether from the power-to-fuel process. International Journal of Hydrogen Energy, 2021, 46, 31984-31994.	7.1	5
52	Start-up Behavior of Fuel Processing Systems. ECS Transactions, 2009, 17, 599-610.	0.5	4
53	Methodologies for Fuel Cell Process Engineering. , 2012, , 597-644.		4
54	A Compact, Self-Sustaining Fuel Cell Auxiliary Power Unit Operated on Diesel Fuel. Energies, 2021, 14, 5909.	3.1	4

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55	Control of an afterburner in a diesel fuel cell power unit under variable load. Journal of Power Sources, 2017, 338, 117-128.	7.8	3
56	Principles of Systems Engineering. , 2012, , 917-961.		2
57	CFD-unterstützte Optimierung des Startvorgangs eines Brenngaserzeugungspackages für die Bordstromversorgung. Chemie-Ingenieur-Technik, 2014, 86, 1440-1441.	0.8	1
58	Global Development Status of Fuel Cell Vehicles. , 2016, , 37-60.		1
59	Entwicklung und Charakterisierung eines Gesamtsystems. , 2015, , 281-332.		1
60	Operational Experience from a 5 kWe HT-PEFC System With Reforming of Diesel and Kerosene. ECS Meeting Abstracts, 2013, , .	0.0	0
61	Fuel cell & Battery hybrid systems for auxiliary power units. , 2014, , .		0
62	Strategien für den optimierten Betrieb von Brennstoffzellensystemen als Hilfsstromaggregate. Chemie-Ingenieur-Technik, 2014, 86, 1436-1436.	0.8	0
63	Fuels for APU Applications. , 2016, , 183-196.		0
64	Prozessketten zur Bereitstellung von Kraftstoffen aus Kohlendioxid und Wasserstoff. Chemie-Ingenieur-Technik, 2016, 88, 1262-1262.	0.8	0