

Sren Knudsen Kr

List of Publications by Citations

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171
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5,639
ext. citations

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avg, IF

6.15
L-index

#	Paper	IF	Citations
161	Grate-firing of biomass for heat and power production. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 725-754	33.6	336
160	A comprehensive review of PBI-based high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21310-21344	6.7	221
159	New Weighted Sum of Gray Gases Model Applicable to Computational Fluid Dynamics (CFD) Modeling of OxyFuel Combustion: Derivation, Validation, and Implementation. <i>Energy & Fuels</i> , 2010 , 24, 6275-6282	4.1	165
158	Energy management strategy based on short-term generation scheduling for a renewable microgrid using a hydrogen storage system. <i>Energy Conversion and Management</i> , 2014 , 87, 820-831	10.6	151
157	Performance comparison between partial oxidation and methane steam reforming processes for solid oxide fuel cell (SOFC) micro combined heat and power (CHP) system. <i>Energy</i> , 2011 , 36, 4216-4226	7.9	128
156	Experimental characterization and modeling of commercial polybenzimidazole-based MEA performance. <i>Journal of Power Sources</i> , 2006 , 162, 239-245	8.9	121
155	High temperature PEM fuel cell performance characterisation with CO and CO ₂ using electrochemical impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9815-9830	6.7	114
154	Mathematical Modeling and Experimental Study of Biomass Combustion in a Thermal 108 MW Grate-Fired Boiler. <i>Energy & Fuels</i> , 2008 , 22, 1380-1390	4.1	111
153	Modelling the motion of cylindrical particles in a nonuniform flow. <i>Chemical Engineering Science</i> , 2003 , 58, 3489-3498	4.4	105
152	On the complex ageing characteristics of high-power LiFePO ₄ /graphite battery cells cycled with high charge and discharge currents. <i>Journal of Power Sources</i> , 2015 , 286, 475-487	8.9	96
151	Chemistry and radiation in oxy-fuel combustion: A computational fluid dynamics modeling study. <i>Fuel</i> , 2011 , 90, 2519-2529	7.1	93
150	Numerical modelling of a straw-fired grate boiler. <i>Fuel</i> , 2004 , 83, 1183-1190	7.1	89
149	Use of numerical modeling in design for co-firing biomass in wall-fired burners. <i>Chemical Engineering Science</i> , 2004 , 59, 3281-3292	4.4	85
148	Electrochemical characterization of a polybenzimidazole-based high temperature proton exchange membrane unit cell. <i>Journal of Power Sources</i> , 2009 , 191, 289-296	8.9	82
147	Modelling and evaluation of heating strategies for high temperature polymer electrolyte membrane fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4655-4664	6.7	79
146	Co-firing straw with coal in a swirl-stabilized dual-feed burner: modelling and experimental validation. <i>Bioresource Technology</i> , 2010 , 101, 4169-78	11	75
145	Thermal modeling and temperature control of a PEM fuel cell system for forklift applications. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8410-8420	6.7	69

144	Modeling and off-design performance of a 1kWe HT-PEMFC (high temperature-proton exchange membrane fuel cell)-based residential micro-CHP (combined-heat-and-power) system for Danish single-family households. <i>Energy</i> , 2011 , 36, 993-1002	7.9	69
143	Characterisation and Modelling of a High Temperature PEM Fuel Cell Stack using Electrochemical Impedance Spectroscopy. <i>Fuel Cells</i> , 2009 , 9, 463-473	2.9	64
142	Modeling and parametric study of a 1kWe HT-PEMFC-based residential micro-CHP system. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5010-5020	6.7	62
141	Part one: A novel model of HTPEM-based micro-combined heat and power fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1909-1920	6.7	62
140	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3453-3461	4.3	60
139	Experimental Study on Effects of Particle Shape and Operating Conditions on Combustion Characteristics of Single Biomass Particles. <i>Energy & Fuels</i> , 2013 , 27, 507-514	4.1	58
138	A Review of The Methanol Economy: The Fuel Cell Route. <i>Energies</i> , 2020 , 13, 596	3.1	56
137	Towards a CFD-based mechanistic deposit formation model for straw-fired boilers. <i>Fuel</i> , 2006 , 85, 833-848	4.8	56
136	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 517-525	4.3	53
135	Analysis of accelerated degradation of a HT-PEM fuel cell caused by cell reversal in fuel starvation condition. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2833-2839	6.7	52
134	Towards an Ultimate Battery Thermal Management System: A Review. <i>Batteries</i> , 2017 , 3, 9	5.7	50
133	Directly connected series coupled HTPEM fuel cell stacks to a Li-ion battery DC bus for a fuel cell electrical vehicle. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7137-7145	6.7	49
132	A numerical study of the gas-liquid, two-phase flow maldistribution in the anode of a high pressure PEM water electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 52-68	6.7	48
131	Modeling and optimization of a 1kWe HT-PEMFC-based micro-CHP residential system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2470-2481	6.7	46
130	Straw combustion on slow-moving grates? a comparison of model predictions with experimental data. <i>Biomass and Bioenergy</i> , 2005 , 28, 307-320	5.3	46
129	Generalized Characterization Methodology for Performance Modelling of Lithium-Ion Batteries. <i>Batteries</i> , 2016 , 2, 37	5.7	46
128	Modeling and experimental validation of water mass balance in a PEM fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3079-3092	6.7	45
127	Numerical model of a thermoelectric generator with compact plate-fin heat exchanger for high temperature PEM fuel cell exhaust heat recovery. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8490-8498	6.7	44

126	Part two: Control of a novel HTPeM-based micro combined heat and power fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1921-1931	6.7	44
125	Control and experimental characterization of a methanol reformer for a 350 W high temperature polymer electrolyte membrane fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1676-1684	6.7	42
124	System Modeling and Validation of a Thermoelectric Fluidic Power Source: Proton Exchange Membrane Fuel Cell and Thermoelectric Generator (PEMFC-TEG). <i>Journal of Electronic Materials</i> , 2010 , 39, 1593-1600	1.9	42
123	Analysis of the impact of heat-to-power ratio for a SOFC-based mCHP system for residential application under different climate regions in Europe. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13715-13726	6.7	40
122	An Electrical Equivalent Circuit Model of a Lithium Titanate Oxide Battery. <i>Batteries</i> , 2019 , 5, 31	5.7	39
121	Modeling and optimization of a heat-pump-assisted high temperature proton exchange membrane fuel cell micro-combined-heat-and-power system for residential applications. <i>Applied Energy</i> , 2015 , 147, 569-581	10.7	38
120	The disordering-enhanced performances of the Al-MOF/graphene composite anodes for lithium ion batteries. <i>Nano Energy</i> , 2019 , 65, 104032	17.1	38
119	VOF modelling of gas-liquid flow in PEM water electrolysis cell micro-channels. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16333-16344	6.7	35
118	Experimental Characterization of the Poisoning Effects of Methanol-Based Reformate Impurities on a PBI-Based High Temperature PEM Fuel Cell. <i>Energies</i> , 2012 , 5, 4251-4267	3.1	35
117	Towards uniformly distributed heat, mass and charge: A flow field design study for high pressure and high current density operation of PEM electrolysis cells. <i>Electrochimica Acta</i> , 2019 , 293, 476-495	6.7	34
116	A study of multi-phase flow through the cathode side of an interdigitated flow field using a multi-fluid model. <i>Journal of Power Sources</i> , 2010 , 195, 4842-4852	8.9	32
115	Experimental investigation of carbon monoxide poisoning effect on a PBI/H ₃ PO ₄ high temperature polymer electrolyte membrane fuel cell: Influence of anode humidification and carbon dioxide. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14932-14941	6.7	31
114	Ejector design and performance evaluation for recirculation of anode gas in a micro combined heat and power systems based on solid oxide fuel cell. <i>Applied Thermal Engineering</i> , 2013 , 54, 26-34	5.8	31
113	Investigating the effects of methanol-water vapor mixture on a PBI-based high temperature PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18231-18242	6.7	31
112	Performance and endurance of a high temperature PEM fuel cell operated on methanol reformat. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18343-18350	6.7	30
111	Influence of the operation mode on PEM water electrolysis degradation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29889-29898	6.7	29
110	Test of hybrid power system for electrical vehicles using a lithium-ion battery pack and a reformed methanol fuel cell range extender. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1856-1863	6.7	29
109	Quantification of in situ temperature measurements on a PBI-based high temperature PEMFC unit cell. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9943-9953	6.7	29

108	A comparative study on three reactor types for methanol synthesis from syngas and CO ₂ . <i>Chemical Engineering Journal</i> , 2020 , 393, 124632	14.7	27
107	Model-supported characterization of a PEM water electrolysis cell for the effect of compression. <i>Electrochimica Acta</i> , 2018 , 263, 228-236	6.7	27
106	Comprehensive Study of Ignition and Combustion of Single Wooden Particles. <i>Energy & Fuels</i> , 2013 , 27, 1061-1072	4.1	27
105	Water balance simulations of a polymer-electrolyte membrane fuel cell using a two-fluid model. <i>Journal of Power Sources</i> , 2011 , 196, 6305-6317	8.9	27
104	A Computational Analysis of Multiphase Flow Through PEMFC Cathode Porous Media Using the Multifluid Approach. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1301	3.9	26
103	Dynamic Model of the High Temperature Proton Exchange Membrane Fuel Cell Stack Temperature. <i>Journal of Fuel Cell Science and Technology</i> , 2009 , 6,		26
102	Fault detection and isolation of high temperature proton exchange membrane fuel cell stack under the influence of degradation. <i>Journal of Power Sources</i> , 2017 , 359, 37-47	8.9	25
101	Optimization of a thermoelectric generator subsystem for high temperature PEM fuel cell exhaust heat recovery. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6637-6645	6.7	25
100	Application of an improved operational strategy on a PBI fuel cell-based residential system for Danish single-family households. <i>Applied Thermal Engineering</i> , 2013 , 50, 704-713	5.8	25
99	Impact of iron and hydrogen peroxide on membrane degradation for polymer electrolyte membrane water electrolysis: Computational and experimental investigation on fluoride emission. <i>Journal of Power Sources</i> , 2019 , 420, 54-62	8.9	24
98	Thermodynamic analysis of steam reforming and oxidative steam reforming of propane and butane for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13009-13021	6.7	24
97	Physical characterization of biomass fuels prepared for suspension firing in utility boilers for CFD modelling. <i>Biomass and Bioenergy</i> , 2007 , 31, 318-325	5.3	24
96	A Transient Fuel Cell Model to Simulate HTPEM Fuel Cell Impedance Spectra. <i>Journal of Fuel Cell Science and Technology</i> , 2012 , 9,		23
95	Fault Characterization of a Proton Exchange Membrane Fuel Cell Stack. <i>Energies</i> , 2019 , 12, 152	3.1	21
94	Experimental study of cell reversal of a high temperature polymer electrolyte membrane fuel cell caused by H ₂ starvation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6672-6680	6.7	21
93	System model development for a methanol reformed 5 kW high temperature PEM fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 13080-13089	6.7	21
92	Experimental study to distinguish the effects of methanol slip and water vapour on a high temperature PEM fuel cell at different operating conditions. <i>Applied Energy</i> , 2017 , 192, 422-436	10.7	20
91	Performance Degradation Tests of Phosphoric Acid Doped Polybenzimidazole Membrane Based High Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2015 , 12,		20

90	Modelling and Experimental Analysis of a Polymer Electrolyte Membrane Water Electrolysis Cell at Different Operating Temperatures. <i>Energies</i> , 2018 , 11, 3273	3.1	20
89	Review of Parameter Determination for Thermal Modeling of Lithium Ion Batteries. <i>Batteries</i> , 2018 , 4, 20	5.7	19
88	Electrothermal impedance spectroscopy as a cost efficient method for determining thermal parameters of lithium ion batteries: Prospects, measurement methods and the state of knowledge. <i>Journal of Cleaner Production</i> , 2017 , 155, 63-71	10.3	19
87	Large-eddy simulations of the non-reactive flow in the Sydney swirl burner. <i>International Journal of Heat and Fluid Flow</i> , 2012 , 36, 47-57	2.4	19
86	Towards a better understanding of biomass suspension co-firing impacts via investigating a coal flame and a biomass flame in a swirl-stabilized burner flow reactor under same conditions. <i>Fuel Processing Technology</i> , 2012 , 98, 65-73	7.2	19
85	Thin film thermocouples for in situ membrane electrode assembly temperature measurements in a polybenzimidazole-based high temperature proton exchange membrane unit cell. <i>Journal of Power Sources</i> , 2010 , 195, 4835-4841	8.9	19
84	Thermodynamic Analyses of a Moderate-Temperature Process of Carbon Dioxide Hydrogenation to Methanol via Reverse Water-Gas Shift with In Situ Water Removal. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10559-10569	3.9	18
83	Comparative study of the break in process of post doped and sol-gel high temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 14959-14968	6.7	18
82	Potential Usage of Thermoelectric Devices in a High-Temperature Polymer Electrolyte Membrane (PEM) Fuel Cell System: Two Case Studies. <i>Journal of Electronic Materials</i> , 2012 , 41, 1838-1844	1.9	18
81	An EIS alternative for impedance measurement of a high temperature PEM fuel cell stack based on current pulse injection. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15851-15860	6.7	16
80	Impedance characterization of high temperature proton exchange membrane fuel cell stack under the influence of carbon monoxide and methanol vapor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21901-21912	6.7	15
79	Particle Image Velocimetry and Computational Fluid Dynamics Analysis of Fuel Cell Manifold. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		15
78	Flow and Pressure Distribution in Fuel Cell Manifolds. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		15
77	Influence of anodic gas recirculation on solid oxide fuel cells in a micro combined heat and power system. <i>Sustainable Energy Technologies and Assessments</i> , 2014 , 8, 99-108	4.7	14
76	A detailed pyrolysis model for a thermally large biomass particle. <i>Fuel</i> , 2020 , 278, 118397	7.1	13
75	In-situ experimental characterization of the clamping pressure effects on low temperature polymer electrolyte membrane electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21597-21606	6.7	13
74	A Review of Different Electric Equivalent Circuit Models and Parameter Identification Methods of Lithium-Ion Batteries. <i>ECS Transactions</i> , 2018 , 87, 23-37	1	13
73	Long-term contamination effect of iron ions on cell performance degradation of proton exchange membrane water electrolyser. <i>Journal of Power Sources</i> , 2019 , 434, 226755	8.9	12

72	Lithium-ion battery dynamic model for wide range of operating conditions 2017 ,		12
71	400 W High Temperature PEM Fuel Cell Stack Test. <i>ECS Transactions</i> , 2007 , 5, 197-207	1	12
70	Low stoichiometry operation of a proton exchange membrane fuel cell employing the interdigitated flow field DA modeling study. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8477-8489	6.7	11
69	Optimization of a High Temperature PEMFC micro-CHP System by Formulation and Application of a Process Integration Methodology. <i>Fuel Cells</i> , 2013 , 13, 238-248	2.9	11
68	Comparison of Reynolds averaged Navier-Stokes based simulation and large-eddy simulation for one isothermal swirling flow. <i>Journal of Thermal Science</i> , 2012 , 21, 154-161	1.9	11
67	Two-dimensional thermal analysis of radial heat transfer of monoliths in small-scale steam methane reforming. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11952-11968	6.7	11
66	New load cycling strategy for enhanced durability of high temperature proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27230-27240	6.7	10
65	The effect of Fe ³⁺ contamination in feed water on proton exchange membrane electrolyzer performance. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12952-12957	6.7	10
64	Modeling and Design of a Multi-Tubular Packed-Bed Reactor for Methanol Steam Reforming over a Cu/ZnO/Al ₂ O ₃ Catalyst. <i>Energies</i> , 2020 , 13, 610	3.1	10
63	Thermal Management Optimization of a Thermoelectric-Integrated Methanol Evaporator Using a Compact CFD Modeling Approach. <i>Journal of Electronic Materials</i> , 2013 , 42, 2035-2042	1.9	10
62	The Effect of Inhomogeneous Compression on Water Transport in the Cathode of a Proton Exchange Membrane Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2012 , 9,		10
61	The influence of phosphoric acid migration on the performance of high temperature polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2018 , 399, 151-156	8.9	9
60	Hydrogen mass transport resistance changes in a high temperature polymer membrane fuel cell as a function of current density and acid doping. <i>Electrochimica Acta</i> , 2019 , 317, 521-527	6.7	9
59	Heat Loss Measurement of Lithium Titanate Oxide Batteries under Fast Charging Conditions by Employing Isothermal Calorimeter. <i>Batteries</i> , 2018 , 4, 59	5.7	9
58	An Experimental Analysis of Entropic Coefficient of a Lithium Titanate Oxide Battery. <i>Energies</i> , 2019 , 12, 2685	3.1	8
57	Simulation of Thermal Behaviour of a Lithium Titanate Oxide Battery. <i>Energies</i> , 2019 , 12, 679	3.1	7
56	Estimating Important Electrode Parameters of High Temperature PEM Fuel Cells by Fitting a Model to Polarisation Curves and Impedance Spectra. <i>ECS Transactions</i> , 2015 , 68, 13-34	1	7
55	Estimation of membrane hydration status for standby proton exchange membrane fuel cell systems by complex impedance measurement: Constant temperature stack characterization. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4054-4066	6.7	7

54	Boundary model-based reference control of blower cooled high temperature polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5030-5037	6.7	7
53	Operation Strategy for Solid Oxide Fuel Cell Systems for Small-Scale Stationary Applications. <i>International Journal of Green Energy</i> , 2009 , 6, 583-593	3	7
52	Log-Linear Model for Predicting the Lithium-ion Battery Age Based on Resistance Extraction from Dynamic Aging Profiles. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6937-6948	4.3	7
51	From rotating disk electrode to single cell: Exploration of PtNi/C octahedral nanocrystal as practical proton exchange membrane fuel cell cathode catalyst. <i>Journal of Power Sources</i> , 2018 , 406, 118-127	8.9	7
50	Investigating different break-in procedures for reformed methanol high temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14691-14700	6.7	6
49	Effect of Current Rate and Prior Cycling on the Coulombic Efficiency of a Lithium-Ion Battery. <i>Batteries</i> , 2019 , 5, 57	5.7	5
48	A Thermodynamic Analysis of an Air-Cooled Proton Exchange Membrane Fuel Cell Operated in Different Climate Regions. <i>Energies</i> , 2020 , 13, 2611	3.1	5
47	Influence of Battery Parametric Uncertainties on the State-of-Charge Estimation of Lithium Titanate Oxide-Based Batteries. <i>Energies</i> , 2018 , 11, 795	3.1	5
46	Experimental and numerical study of flow in expanded metal plate for water electrolysis applications. <i>Journal of Power Sources</i> , 2018 , 397, 334-342	8.9	5
45	Cooling Simulation and Thermal Abuse Modeling of Lithium-Ion Batteries Using the Newman, Tiedemann, Gu, and Kim (NTGK) Model. <i>ECS Transactions</i> , 2017 , 81, 261-270	1	5
44	Parametric Sensitivity Tests European Polymer Electrolyte Membrane Fuel Cell Stack Test Procedures. <i>Journal of Fuel Cell Science and Technology</i> , 2014 , 11,		5
43	Water Balance Simulations of a PEM Fuel Cell Using a Two-Fluid Model. <i>ECS Transactions</i> , 2010 , 33, 1503-1513	1	5
42	The effects of cationic impurities on the performance of proton exchange membrane water electrolyzer. <i>Journal of Power Sources</i> , 2020 , 473, 228617	8.9	5
41	Thermal Analysis of Cold Plate with Different Configurations for Thermal Management of a Lithium-Ion Battery. <i>Batteries</i> , 2020 , 6, 17	5.7	5
40	Thermal Modelling of a Lithium Titanate Oxide Battery. <i>ECS Transactions</i> , 2018 , 87, 315-326	1	5
39	Study of Temperature Impacts on a Lithium-Ion Battery Thermal Behaviour by Employing Isothermal Calorimeter. <i>ECS Transactions</i> , 2018 , 87, 295-305	1	5
38	A review of thermal management and safety for lithium ion batteries 2017 ,		4
37	The discharge behavior of lithium-ion batteries using the Dual-Potential Multi-Scale Multi-Dimensional (MSMD) Battery Model 2017 ,		4

36	Analysing Gas-Liquid Flow in PEM Electrolyser Micro-Channels Using a Micro-Porous Ceramic as Gas Permeable Wall. <i>ECS Transactions</i> , 2017 , 80, 1107-1115	1	4
35	Determination of the behavior and performance of commercial Li-Ion pouch cells by means of isothermal calorimeter 2016 ,		4
34	Multiphysics based thermal modeling of a pouch lithium-ion battery cell for the development of pack level thermal management system 2016 ,		4
33	Investigation of the Effect of State-of-Charge and C-Rates on the Heat Loss and Efficiency of a Lithium-Ion Battery. <i>ECS Transactions</i> , 2018 , 87, 51-58	1	4
32	Experimental Evaluation of a Pt-based Heat Exchanger Methanol Reformer for a HTPEM Fuel Cell Stack. <i>ECS Transactions</i> , 2008 , 12, 571-578	1	3
31	A detailed computational fluid dynamics model on biomass pellet smoldering combustion and its parametric study. <i>Chemical Engineering Science</i> , 2021 , 231, 116247	4.4	3
30	Investigating low and high load cycling tests as accelerated stress tests for proton exchange membrane water electrolysis. <i>Electrochimica Acta</i> , 2021 , 370, 137748	6.7	3
29	Effect of Bad Connection on Surface Temperature of Lithium-Ion Batteries by Using Infrared Thermography. <i>ECS Transactions</i> , 2018 , 87, 39-50	1	3
28	Energy analysis and surrogate modeling for the green methanol production under dynamic operating conditions. <i>Fuel</i> , 2022 , 307, 121924	7.1	3
27	The Effect of PFSA Membrane Compression on the Predicted Performance of a High Pressure PEM Electrolysis Cell. <i>ECS Transactions</i> , 2015 , 68, 99-116	1	2
26	Model-Supported Analysis of Degradation Phenomena of a PEM Water Electrolysis Cell under Dynamic Operation. <i>ECS Transactions</i> , 2018 , 85, 37-45	1	2
25	On the Effect of Clamping Pressure and Methods on the Current Distribution of a Proton Exchange Membrane Water Electrolyzer. <i>ECS Transactions</i> , 2018 , 85, 995-1004	1	2
24	On the Experimental Investigation of the Clamping Pressure Effects on the Proton Exchange Membrane Water Electrolyser Cell Performance. <i>ECS Transactions</i> , 2017 , 77, 1409-1421	1	2
23	Evolution of Surface Temperature of a 13 Amp Hour Nano Lithium-Titanate Battery Cell under Fast Charging. <i>ECS Transactions</i> , 2017 , 81, 271-279	1	2
22	Investigation of Multidimensional Electrothermal Impedance Spectroscopy Measurement on Lithium Ion Battery Cell. <i>ECS Transactions</i> , 2015 , 70, 305-310	1	2
21	Vapor Delivery Systems for the Study of the Effects of Reformate Gas Impurities in HT-PEM Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2012 , 9,		2
20	Experimental and Numerical Evaluation of the Bypass Flow in a Catalytic Plate Reactor for Hydrogen Production. <i>Journal of Fuel Cell Science and Technology</i> , 2012 , 9,		2
19	On the Effect of Bipolar Plate Mechanical Properties on the Current Distribution of Proton Exchange Membrane Water Electrolysis. <i>ECS Transactions</i> , 2018 , 86, 683-693	1	2

18	Numerical simulation of effect of catalyst wire-mesh pressure drop characteristics on flow distribution in catalytic parallel plate steam reformer. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9485-9495	6.7	1
17	The AC Impedance Characteristic of High Power Li4Ti5O12-Based Battery Cells. <i>ECS Transactions</i> , 2015 , 70, 291-300	1	1
16	Parametric Sensitivity Tests [European PEM Fuel Cell Stack Test Procedures 2014 ,		1
15	Performance Degradation Tests of Phosphoric Acid Doped PBI Membrane Based High Temperature PEM Fuel Cells 2014 ,		1
14	Estimation of membrane hydration status for standby proton exchange membrane fuel cell systems by impedance measurement: First results on variable temperature stack characterization 2013 ,		1
13	Estimation of membrane hydration status for standby proton exchange membrane fuel cell systems by impedance measurement: First results on cell characterization 2011 ,		1
12	Low Stoichiometry Operation of a Polymer Electrolyte Membrane Fuel Cell Employing the Interdigitated Flow Field Design. <i>ECS Transactions</i> , 2011 , 41, 1897-1908	1	1
11	Electrothermally balanced operation of solid oxide electrolysis cells. <i>Journal of Power Sources</i> , 2022 , 523, 231040	8.9	1
10	High Temperature PEM Fuel Cell Systems, Control and Diagnostics 2016 , 459-486		1
9	Modeling and Experiments of Biomass Combustion in a Large-scale Grate Boiler 2007 , 1173-1179		1
8	Thermal Simulation of Phase Change Material for Cooling of a Lithium-Ion Battery Pack. <i>Electrochem</i> , 2020 , 1, 439-449	2.9	1
7	Characterization of the Compressive Load on a Lithium-Ion Battery for Electric Vehicle Application. <i>Machines</i> , 2021 , 9, 71	2.9	1
6	Thermal Characterizations of a Lithium Titanate Oxide-Based Lithium-Ion Battery Focused on Random and Periodic Charge-Discharge Pulses. <i>Applied System Innovation</i> , 2021 , 4, 24	2.4	1
5	Thermal Analysis of an Indirect Liquid Cooling with Different Geometries for a Lithium-Ion Battery. <i>ECS Transactions</i> , 2019 , 95, 105-112	1	1
4	Design and Simulation of Internal Flowing Twisted Conduits for Cooling of Lithium-Ion Batteries through Thermal Characterization. <i>Batteries</i> , 2020 , 6, 31	5.7	0
3	The role of effectiveness factor on the modeling of methanol steam reforming over CuO/ZnO/Al2O3 catalyst in a multi-tubular reactor. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8700-8715	6.7	0
2	Analyzing Discharging and Charging Performance of a Lithium-Ion Battery. <i>ECS Transactions</i> , 2019 , 95, 37-45	1	
1	Applying Different Configurations for the Thermal Management of a Lithium Titanate Oxide Battery Pack. <i>Electrochem</i> , 2021 , 2, 50-63	2.9	

