

Werner Lehnert

List of Publications by Year in descending order

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133
papers

4,084
citations

101384

36
h-index

138251

58
g-index

140
all docs

140
docs citations

140
times ranked

2650
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | OpenPNM: A Pore Network Modeling Package. Computing in Science and Engineering, 2016, 18, 60-74. | 1.2 | 235 |
| 2 | Cross-sectional insight in the water evolution and transport in polymer electrolyte fuel cells. Applied Physics Letters, 2008, 92, . | 1.5 | 160 |
| 3 | 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. | 4.0 | 127 |
| 4 | Performance enhancement of PEM electrolyzers through iridium-coated titanium porous transport layers. Electrochemistry Communications, 2018, 97, 96-99. | 2.3 | 123 |
| 5 | Membrane electrode assemblies for high-temperature polymer electrolyte fuel cells based on poly(2,5-benzimidazole) membranes with phosphoric acid impregnation via the catalyst layers. Journal of Power Sources, 2009, 192, 258-266. | 4.0 | 121 |
| 6 | Redistribution of phosphoric acid in membrane electrode assemblies for high-temperature polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2009, 34, 9479-9485. | 3.8 | 98 |
| 7 | Mechanical failure and mitigation strategies for the membrane in a proton exchange membrane fuel cell. Renewable and Sustainable Energy Reviews, 2019, 113, 109289. | 8.2 | 93 |
| 8 | 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. | 5.1 | 87 |
| 9 | Stochastic modeling and direct simulation of the diffusion media for polymer electrolyte fuel cells. International Journal of Heat and Mass Transfer, 2010, 53, 1128-1138. | 2.5 | 79 |
| 10 | Investigation of water droplet kinetics and optimization of channel geometry for PEM fuel cell cathodes. International Journal of Hydrogen Energy, 2009, 34, 3104-3111. | 3.8 | 78 |
| 11 | Local Structural Characteristics of Pore Space in GDLs of PEM Fuel Cells Based on Geometric 3D Graphs. Journal of the Electrochemical Society, 2009, 156, B1339. | 1.3 | 78 |
| 12 | Electrical resistance and microstructure of typical gas diffusion layers for proton exchange membrane fuel cell under compression. Applied Energy, 2018, 231, 127-137. | 5.1 | 76 |
| 13 | In-situ synchrotron X-ray radiography on high temperature polymer electrolyte fuel cells. Electrochemistry Communications, 2010, 12, 1436-1438. | 2.3 | 74 |
| 14 | Characterization of water exchange and two-phase flow in porous gas diffusion materials by hydrogen-deuterium contrast neutron radiography. Applied Physics Letters, 2008, 92, . | 1.5 | 71 |
| 15 | In-situ two-phase flow investigation of different porous transport layer for a polymer electrolyte membrane (PEM) electrolyzer with neutron spectroscopy. Journal of Power Sources, 2018, 390, 108-115. | 4.0 | 71 |
| 16 | 3D analysis, modeling and simulation of transport processes in compressed fibrous microstructures, using the Lattice Boltzmann method. Electrochimica Acta, 2013, 110, 325-334. | 2.6 | 67 |
| 17 | Characterization of water transport in gas diffusion media. Journal of Power Sources, 2009, 190, 110-120. | 4.0 | 66 |
| 18 | Stochastic 3D Modeling of the GDL Structure in PEMFCs Based on Thin Section Detection. Journal of the Electrochemical Society, 2008, 155, B391. | 1.3 | 65 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | 3D modeling of a 200Åcm ² HT-PEFC short stack. International Journal of Hydrogen Energy, 2012, 37, 2430-2439. | 3.8 | 65 |
| 20 | 3D microstructure modeling of compressed fiber-based materials. Journal of Power Sources, 2014, 257, 52-64. | 4.0 | 62 |
| 21 | Combined local current distribution measurements and high resolution neutron radiography of operating Direct Methanol Fuel Cells. Electrochemistry Communications, 2009, 11, 1606-1609. | 2.3 | 61 |
| 22 | The influence of gas diffusion layer wettability on direct methanol fuel cell performance: A combined local current distribution and high resolution neutron radiography study. Journal of Power Sources, 2010, 195, 4765-4771. | 4.0 | 61 |
| 23 | Improving the Efficiency of PEM Electrolyzers through Membrane-Specific Pressure Optimization. Energies, 2020, 13, 612. | 1.6 | 61 |
| 24 | In operando synchrotron X-ray radiography studies of polymer electrolyte membrane water electrolyzers. Electrochemistry Communications, 2015, 55, 55-59. | 2.3 | 60 |
| 25 | Pore network modeling to explore the effects of compression on multiphase transport in polymer electrolyte membrane fuel cell gas diffusion layers. Journal of Power Sources, 2016, 335, 162-171. | 4.0 | 60 |
| 26 | Temperature optimization for improving polymer electrolyte membrane-water electrolysis system efficiency. Applied Energy, 2021, 283, 116270. | 5.1 | 55 |
| 27 | Raman study of the polybenzimidazole- <i>phosphoric acid</i> interactions in membranes for fuel cells. Physical Chemistry Chemical Physics, 2012, 14, 10022. | 1.3 | 50 |
| 28 | Stochastic 3D modeling of fiber-based materials. Computational Materials Science, 2012, 59, 75-86. | 1.4 | 50 |
| 29 | Synchrotron X-ray radiosopic in situ study of high-temperature polymer electrolyte fuel cells - Effect of operation conditions on structure of membrane. Journal of Power Sources, 2014, 246, 290-298. | 4.0 | 49 |
| 30 | Nonlinear dynamic mechanism modeling of a polymer electrolyte membrane fuel cell with dead-ended anode considering mass transport and actuator properties. Applied Energy, 2018, 230, 106-121. | 5.1 | 48 |
| 31 | Exploring the Interface of Skin- <i>Layered Titanium Fibers</i> for Electrochemical Water Splitting. Advanced Energy Materials, 2021, 11, 2002926. | 10.2 | 48 |
| 32 | Flow channel design for metallic bipolar plates in proton exchange membrane fuel cells: Experiments. Energy Conversion and Management, 2018, 174, 814-823. | 4.4 | 47 |
| 33 | Performance analysis of HT-PEFC stacks. International Journal of Hydrogen Energy, 2012, 37, 9171-9181. | 3.8 | 45 |
| 34 | Design of durability test protocol for vehicular fuel cell systems operated in power-follow mode based on statistical results of on-road data. Journal of Power Sources, 2018, 377, 59-69. | 4.0 | 44 |
| 35 | Impact of compression on gas transport in non-woven gas diffusion layers of high temperature polymer electrolyte fuel cells. Journal of Power Sources, 2016, 318, 26-34. | 4.0 | 40 |
| 36 | Simulation of a Full Fuel Cell Membrane Electrode Assembly Using Pore Network Modeling. Journal of the Electrochemical Society, 2016, 163, F384-F392. | 1.3 | 40 |

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|----|---|-----|-----------|
| 37 | Constructing a Multifunctional Interface between Membrane and Porous Transport Layer for Water Electrolyzers. ACS Applied Materials & Interfaces, 2021, 13, 16182-16196. | 4.0 | 38 |
| 38 | Cell voltage transients of a gas-fed direct methanol fuel cell. Journal of Power Sources, 2004, 127, 181-186. | 4.0 | 35 |
| 39 | Stochastic 3D modeling of non-woven materials with wet-proofing agent. International Journal of Hydrogen Energy, 2013, 38, 8448-8460. | 3.8 | 34 |
| 40 | Review "Challenges and Opportunities for Increased Current Density in Alkaline Electrolysis by Increasing the Operating Temperature. Journal of the Electrochemical Society, 2021, 168, 114501. | 1.3 | 34 |
| 41 | 3D modeling of an HT-PEFC stack using reformat gas. International Journal of Hydrogen Energy, 2012, 37, 12438-12450. | 3.8 | 33 |
| 42 | Impact of porous transport layer compression on hydrogen permeation in PEM water electrolysis. International Journal of Hydrogen Energy, 2020, 45, 4008-4014. | 3.8 | 32 |
| 43 | Mechanical characterization and durability of sintered porous transport layers for polymer electrolyte membrane electrolysis. Journal of Power Sources, 2018, 374, 84-91. | 4.0 | 30 |
| 44 | Review on proton exchange membrane fuel cell stack assembly: Quality evaluation, assembly method, contact behavior and process design. Renewable and Sustainable Energy Reviews, 2021, 152, 111660. | 8.2 | 30 |
| 45 | Parameter extraction and uncertainty analysis of a proton exchange membrane fuel cell system based on Monte Carlo simulation. International Journal of Hydrogen Energy, 2017, 42, 2309-2326. | 3.8 | 29 |
| 46 | Contact behavior modelling and its size effect on proton exchange membrane fuel cell. Journal of Power Sources, 2017, 365, 190-200. | 4.0 | 29 |
| 47 | Apparent contact angles of liquid water droplet breaking through a gas diffusion layer of polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2018, 43, 6318-6330. | 3.8 | 29 |
| 48 | Determination of Anion Transference Number and Phosphoric Acid Diffusion Coefficient in High Temperature Polymer Electrolyte Membranes. Journal of the Electrochemical Society, 2018, 165, F863-F869. | 1.3 | 29 |
| 49 | In-Operando Neutron Radiography Studies of Polymer Electrolyte Membrane Water Electrolyzers. ECS Transactions, 2015, 69, 1135-1140. | 0.3 | 28 |
| 50 | The influence of water channel geometry and proton mobility on the conductivity of Nafion®. Electrochimica Acta, 2016, 214, 362-369. | 2.6 | 28 |
| 51 | Water distribution in high temperature polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2016, 41, 1837-1845. | 3.8 | 28 |
| 52 | A vibrational spectroscopic and modeling study of poly(2,5-benzimidazole) (ABPBI) " Phosphoric acid interactions in high temperature PEFC membranes. International Journal of Hydrogen Energy, 2014, 39, 2776-2784. | 3.8 | 27 |
| 53 | Robust control of internal states in a polymer electrolyte membrane fuel cell air-feed system by considering actuator properties. International Journal of Hydrogen Energy, 2017, 42, 13171-13191. | 3.8 | 27 |
| 54 | Impact of clamping pressure and stress relaxation on the performance of different polymer electrolyte membrane water electrolysis cell designs. International Journal of Hydrogen Energy, 2019, 44, 23556-23567. | 3.8 | 27 |

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|----|--|-----|-----------|
| 55 | Development of HT-PEFC stacks in the kW range. International Journal of Hydrogen Energy, 2013, 38, 4705-4713. | 3.8 | 26 |
| 56 | HT-PEFC Systems Operating with Diesel and Kerosene for APU Application. Energy Procedia, 2012, 29, 541-551. | 1.8 | 25 |
| 57 | Influence of operating conditions on the degradation mechanism in high-temperature polymer electrolyte fuel cells. Journal of Power Sources, 2019, 439, 227090. | 4.0 | 25 |
| 58 | Polytetrafluorethylene effects on liquid water flowing through the gas diffusion layer of polymer electrolyte membrane fuel cells. Journal of Power Sources, 2019, 438, 226975. | 4.0 | 24 |
| 59 | Accelerated Degradation of High-Temperature Polymer Electrolyte Fuel Cells: Discussion and Empirical Modeling. Journal of the Electrochemical Society, 2015, 162, F153-F164. | 1.3 | 22 |
| 60 | Conceptual Design for an Externally Cooled HT-PEMFC Stack. ECS Transactions, 2008, 12, 113-118. | 0.3 | 21 |
| 61 | Random geometric graphs for modelling the pore space of fibre-based materials. Journal of Materials Science, 2011, 46, 7745-7759. | 1.7 | 21 |
| 62 | Design and Experimental Investigation of a Heat Pipe Supported External Cooling System for HT-PEFC Stacks. Journal of Fuel Cell Science and Technology, 2013, 10, . | 0.8 | 21 |
| 63 | Monitoring the hydrogen distribution in poly(2,5-benzimidazole)-based (ABPBI) membranes in operating high-temperature polymer electrolyte fuel cells by using H-D contrast neutron imaging. Journal of Power Sources, 2015, 299, 125-129. | 4.0 | 21 |
| 64 | Parameter extraction of polymer electrolyte membrane fuel cell based on quasi-dynamic model and periphery signals. Energy, 2017, 122, 675-690. | 4.5 | 21 |
| 65 | Nonlinear observation of internal states of fuel cell cathode utilizing a high-order sliding-mode algorithm. Journal of Power Sources, 2017, 356, 56-71. | 4.0 | 21 |
| 66 | Multistep Sulfur Leaching for the Development of a Highly Efficient and Stable NiS _x /Ni(OH) ₂ /NiOOH Electrocatalyst for Anion Exchange Membrane Water Electrolysis. ACS Applied Materials & Interfaces, 2022, 14, 19397-19408. | 4.0 | 21 |
| 67 | A novel degradation model of proton exchange membrane fuel cells for state of health estimation and prognostics. International Journal of Hydrogen Energy, 2021, 46, 31353-31361. | 3.8 | 20 |
| 68 | Carbon NMR investigation of the polybenzimidazole- <i>ε</i> -dimethylacetamide interactions in membranes for fuel cells. New Journal of Chemistry, 2013, 37, 152-156. | 1.4 | 19 |
| 69 | Uptake of protic electrolytes by polybenzimidazole-type polymers: absorption isotherms and electrolyte/polymer interactions. Journal of Applied Electrochemistry, 2015, 45, 857-871. | 1.5 | 19 |
| 70 | Methodology of designing durability test protocol for vehicular fuel cell system operated in soft run mode based on statistic results of on-road data. International Journal of Hydrogen Energy, 2017, 42, 29840-29851. | 3.8 | 19 |
| 71 | The Effect of Cell Compression and Cathode Pressure on Hydrogen Crossover in PEM Water Electrolysis. Journal of the Electrochemical Society, 2022, 169, 014502. | 1.3 | 19 |
| 72 | The diffusion of lithium through graphite: a Monte Carlo simulation based on electronic structure calculations. Chemical Physics, 1992, 163, 331-337. | 0.9 | 18 |

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|----|--|-----|-----------|
| 73 | Stochastic Aspects of Mass Transport in Gas Diffusion Layers. <i>Transport in Porous Media</i> , 2014, 103, 469-495. | 1.2 | 18 |
| 74 | Effect of Spiral Flow Field Design on Performance and Durability of HT-PEFCs. <i>Journal of the Electrochemical Society</i> , 2013, 160, F892-F897. | 1.3 | 17 |
| 75 | Phosphoric Acid and its Interactions with Polybenzimidazole-Type Polymers. , 2016, , 169-194. | | 17 |
| 76 | Characterizing membrane electrode assemblies for high temperature polymer electrolyte membrane fuel cells using design of experiments. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1189-1202. | 3.8 | 16 |
| 77 | Liquid water breakthrough location distances on a gas diffusion layer of polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2018, 389, 56-60. | 4.0 | 16 |
| 78 | Interactions between a polymer electrolyte membrane fuel cell and boost converter utilizing a multiscale model. <i>Journal of Power Sources</i> , 2018, 395, 237-250. | 4.0 | 16 |
| 79 | Influence of Stoichiometry on the Two-Phase Flow Behavior of Proton Exchange Membrane Electrolyzers. <i>Energies</i> , 2019, 12, 350. | 1.6 | 16 |
| 80 | Mechanism of action of polytetrafluoroethylene binder on the performance and durability of high-temperature polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14687-14698. | 3.8 | 16 |
| 81 | EXTRACTION OF CURVED FIBERS FROM 3D DATA. <i>Image Analysis and Stereology</i> , 2013, 32, 57. | 0.4 | 15 |
| 82 | Evaluation of structural changes of HT-PEFC electrodes from in-situ synchrotron X-ray radiographs. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9447-9456. | 3.8 | 15 |
| 83 | Effects of constant load operations on platinum bands formation and cathode degradation in high-temperature polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2018, 289, 354-362. | 2.6 | 13 |
| 84 | The impact of flow field plate misalignment on the gas diffusion layer intrusion and performance of a high-temperature polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2021, 501, 230036. | 4.0 | 13 |
| 85 | Phosphoric Acid Dynamics in High Temperature Polymer Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134507. | 1.3 | 13 |
| 86 | Three-dimensional multiscale analysis of degradation of nano- and micro-structure in direct methanol fuel cell electrodes after methanol starvation. <i>Journal of Power Sources</i> , 2016, 327, 481-487. | 4.0 | 12 |
| 87 | Layer Formation from Polymer Carbon-Black Dispersions. <i>Coatings</i> , 2018, 8, 450. | 1.2 | 11 |
| 88 | 3D printed sample holder for in-operando EPR spectroscopy on high temperature polymer electrolyte fuel cells. <i>Journal of Magnetic Resonance</i> , 2016, 269, 157-161. | 1.2 | 10 |
| 89 | Design and experimental validation of an HT-PEFC stack with metallic BPP. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18488-18497. | 3.8 | 10 |
| 90 | A Transient Behavior Study of Polymer Electrolyte Fuel Cells with Cyclic Current Profiles. <i>Energies</i> , 2019, 12, 2370. | 1.6 | 10 |

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| 91 | Anisotropic properties of gas transport in non-woven gas diffusion layers of polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2020, 452, 227828. | 4.0 | 10 |
| 92 | Corrosion and Electrical Properties of SS316L Materials in the Simulated HT-PEFC Environment. <i>Journal of the Electrochemical Society</i> , 2018, 165, C681-C688. | 1.3 | 9 |
| 93 | Steering and in situ monitoring of drying phenomena during film fabrication. <i>Journal of Coatings Technology Research</i> , 2019, 16, 1213-1221. | 1.2 | 9 |
| 94 | Time Dependence of the Open Circuit Potential of Platinum Disk Electrodes in Half Cell Experiments. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3098-F3104. | 1.3 | 9 |
| 95 | Fractal diffusion in high temperature polymer electrolyte fuel cell membranes. <i>Journal of Chemical Physics</i> , 2018, 148, 204906. | 1.2 | 8 |
| 96 | The Electrochemical Behavior of CrN/Cr Coatings with Defects on 316L Stainless Steel in the Simulated Cathodic Environment of an HT-PEFC. <i>Journal of the Electrochemical Society</i> , 2019, 166, C394-C400. | 1.3 | 8 |
| 97 | Fuel Cell Electrode Characterization Using Neutron Scattering. <i>Materials</i> , 2020, 13, 1474. | 1.3 | 8 |
| 98 | Inhomogeneous Distribution of Polytetrafluorethylene in Gas Diffusion Layers of Polymer Electrolyte Fuel Cells. <i>Transport in Porous Media</i> , 2021, 136, 843-862. | 1.2 | 8 |
| 99 | Setup and experimental validation of a 5ÂkW HT-PEFC stack. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11596-11604. | 3.8 | 7 |
| 100 | Irreversible Losses in Fuel Cells. , 2018, , 15-40. | | 7 |
| 101 | Investigation of HT-PEFCs by Means of Synchrotron X-ray Radiography and Electrochemical Impedance Spectroscopy. <i>ECS Transactions</i> , 2011, 41, 1413-1422. | 0.3 | 6 |
| 102 | Study of Cathode Catalyst Layer Parameters for HT-PEMFC Using Electrochemical Impedance Spectroscopy. <i>ECS Transactions</i> , 2017, 80, 27-36. | 0.3 | 6 |
| 103 | Self-Humidification of a Polymer Electrolyte Membrane Fuel Cell System With Cathodic Exhaust Gas Recirculation. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, . | 1.1 | 6 |
| 104 | Proton diffusion in the catalytic layer for high temperature polymer electrolyte fuel cells. <i>RSC Advances</i> , 2019, 9, 37768-37777. | 1.7 | 6 |
| 105 | A least-squares support vector machine method for modeling transient voltage in polymer electrolyte fuel cells. <i>Applied Energy</i> , 2020, 271, 115092. | 5.1 | 6 |
| 106 | Local Evaluation of Processed Membrane Electrode Assemblies by Scanning Electrochemical Microscopy. <i>Journal of the Electrochemical Society</i> , 2017, 164, F873-F878. | 1.3 | 5 |
| 107 | Stochastic Analysis of the Gas Flow at the Gas Diffusion Layer/Electrode Interface of a High-Temperature Polymer Electrolyte Fuel Cell. <i>Transport in Porous Media</i> , 2018, 123, 403-420. | 1.2 | 5 |
| 108 | An Engineering Toolbox for the Evaluation of Metallic Flow Field Plates. <i>ChemEngineering</i> , 2019, 3, 85. | 1.0 | 5 |

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| 109 | Non-destructive in-operando investigation of catalyst layer degradation for water electrolyzers using synchrotron radiography. <i>Materials Today Energy</i> , 2020, 16, 100394. | 2.5 | 5 |
| 110 | Nanostructure of HT-PEFC Electrodes Investigated with Scattering Methods. <i>ECS Transactions</i> , 2017, 80, 19-25. | 0.3 | 4 |
| 111 | Stochastic Analysis of the Gas Flow at the Gas Diffusion Layer/Channel Interface of a High-Temperature Polymer Electrolyte Fuel Cell. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2536. | 1.3 | 4 |
| 112 | In Operando Neutron Radiography Analysis of a High-Temperature Polymer Electrolyte Fuel Cell Based on a Phosphoric Acid-Doped Polybenzimidazole Membrane Using the Hydrogen-Deuterium Contrast Method. <i>Energies</i> , 2018, 11, 2214. | 1.6 | 4 |
| 113 | Working zone for a least-squares support vector machine for modeling polymer electrolyte fuel cell voltage. <i>Applied Energy</i> , 2021, 283, 116191. | 5.1 | 4 |
| 114 | CrN/Cr-Coated Steel Plates for High-Temperature Polymer Electrolyte Fuel Cells: Performance and Durability. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144507. | 1.3 | 4 |
| 115 | Current Density Distribution Measurement in HT-PEFC Stacks Operated with Reformate Gas from Middle Distillates. <i>ECS Transactions</i> , 2011, 41, 1935-1941. | 0.3 | 3 |
| 116 | An online adaptive model for the nonlinear dynamics of fuel cell voltage. <i>Applied Energy</i> , 2021, 288, 116561. | 5.1 | 3 |
| 117 | Development of an Open-Source Solver for Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2020, 98, 317-329. | 0.3 | 3 |
| 118 | Design and Experimental Investigation of a Heat Pipe Supported External Cooling System for HT-PEFC Fuel Cell Stacks. , 2013, , . | | 2 |
| 119 | Electrochemical Behavior of CrN/Cr Coating on 316L Stainless Steel in the Simulated Cathodic Environment of an HT-PEFC. <i>ECS Transactions</i> , 2018, 85, 585-598. | 0.3 | 2 |
| 120 | Statistische Analyse des lokalen Wassertransportes einer Polymer-Älektrolyt-ÄBrennstoffzelle. <i>Chemie-Ingenieur-Technik</i> , 2019, 91, 865-871. | 0.4 | 2 |
| 121 | An analysis of the imperfections and defects inside composite bipolar plates using X-Ray computer tomography and resistivity simulations. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25677-25688. | 3.8 | 2 |
| 122 | Proton dynamics of phosphoric acid in HT-PEFCs: Towards "in-operando" experiments. <i>AIP Conference Proceedings</i> , 2018, , . | 0.3 | 2 |
| 123 | Strukturelle Analyse des Porenraumes von Gasdiffusionslagen in Brennstoffzellen mittels geometrischer 3-D-Graphen. <i>Materialprüfung/Materials Testing</i> , 2010, 52, 736-743. | 0.8 | 2 |
| 124 | Combined Two-phase Co-flow and Counter-flow in a Gas Channel/Porous Transport Layer Assembly. <i>ECS Transactions</i> , 2020, 98, 305-315. | 0.3 | 2 |
| 125 | Analysis and Optimization of the Cell Design of a PEMFC-Stack. <i>ECS Transactions</i> , 2009, 17, 305-314. | 0.3 | 1 |
| 126 | Design and Modeling of Metallic Bipolar Plates for a Fuel Cell Range Extender. <i>Energies</i> , 2021, 14, 5484. | 1.6 | 1 |

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|-----|---|-----|-----------|
| 127 | Cooling Methods for High Temperature Polymer Electrolyte Fuel Cell Stacks. , 2012, , . | | 0 |
| 128 | Three-Dimensional Studies on Compressed Gas Diffusion Layers and the Water Distribution in Operating Fuel Cells Using Synchrotron X-ray Imaging. ECS Meeting Abstracts, 2012, , . | 0.0 | 0 |
| 129 | On-Line In-Situ Diagnostics of Processes Within HT-PEM Fuel Cells Membrane by Raman Microscopy. , 2013, , . | | 0 |
| 130 | Operational Experience from a 5 kWe HT-PEFC System With Reforming of Diesel and Kerosene. ECS Meeting Abstracts, 2013, , . | 0.0 | 0 |
| 131 | Stackentwicklung Hochtemperatur-Polymerelektrolyt-Brennstoffzellen. , 2015, , 145-180. | | 0 |
| 132 | Hochtemperatur-Polymerelektrolyt-Brennstoffzellen. , 2015, , 101-143. | | 0 |
| 133 | Stack Concepts for High Temperature Polymer Electrolyte Membrane Fuel Cells. , 2016, , 441-457. | | 0 |