

Anna Sciazko

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

625
citations

567281

15
h-index

610901

24
g-index

51
all docs

51
docs citations

51
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Status report on high temperature fuel cells in Poland – Recent advances and achievements. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4366-4403.	7.1	55
2	Thermodynamic analysis of 100% system fuel utilization solid oxide fuel cell (SOFC) system fueled with ammonia. <i>Energy Conversion and Management</i> , 2021, 249, 114839.	9.2	52
3	An experimental investigation on the drying kinetics of a single coarse particle of Belchatow lignite in an atmospheric superheated steam condition. <i>Fuel Processing Technology</i> , 2015, 131, 356-369.	7.2	43
4	Local evolution of anode microstructure morphology in a solid oxide fuel cell after long-term stack operation. <i>Journal of Power Sources</i> , 2015, 288, 199-205.	7.8	43
5	Ni-GDC and Ni-YSZ electrodes operated in solid oxide electrolysis and fuel cell modes. <i>Journal of Thermal Science and Technology</i> , 2021, 16, JTST0013-JTST0013.	1.1	36
6	A novel approach to the experimental study on methane/steam reforming kinetics using the Orthogonal Least Squares method. <i>Journal of Power Sources</i> , 2014, 262, 245-254.	7.8	35
7	A Novel Approach to the Optimization of a Solid Oxide Fuel Cell Anode Using Evolutionary Algorithms. <i>IEEE Access</i> , 2019, 7, 34361-34372.	4.2	33
8	Towards a Thermal Optimization of a Methane/Steam Reforming Reactor. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 171-189.	2.6	27
9	A novel approach to improve the mathematical modelling of the internal reforming process for solid oxide fuel cells using the orthogonal least squares method. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16372-16389.	7.1	25
10	Isostatic pressing of screen printed nickel-gadolinium doped ceria anodes on electrolyte-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2021, 485, 229317.	7.8	25
11	Influence of Initial Powder Morphology on Polarization Characteristics of Nickel/Gadolinium-Doped-Ceria Solid Oxide Fuel Cells Electrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, F44-F52.	2.9	23
12	Multiscale microstructural evolutions of nickel-gadolinium doped ceria in solid oxide fuel cell anode. <i>Journal of Power Sources</i> , 2020, 478, 228710.	7.8	19
13	Fabrication of a micropatterned composite electrode for solid oxide fuel cells via ultraviolet nanoimprint lithography. <i>Microelectronic Engineering</i> , 2020, 225, 111277.	2.4	19
14	Segmentation of Solid Oxide Cell Electrodes by Patch Convolutional Neural Network. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044504.	2.9	18
15	Feasibility study on saturated water cooled solid oxide fuel cell stack. <i>Applied Energy</i> , 2020, 279, 115803.	10.1	17
16	Operando observations of active three phase boundary of patterned nickel - Yttria stabilized zirconia electrode in solid oxide cell. <i>Journal of Power Sources</i> , 2022, 529, 231228.	7.8	14
17	Effects of mass fraction of La _{0.9} Sr _{0.1} Cr _{0.5} Mn _{0.5} O _{3-δ} and Gd _{0.1} Ce _{0.9} O _{2-δ} composite anodes for nickel free solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1556-1567.	5.7	13
18	A three-dimensional reconstruction of coal microstructure using the Cryo-FIB-SEM technique. <i>Fuel</i> , 2020, 275, 117919.	6.4	11

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19	An attempt to minimize the temperature gradient along a plug-flow methane/steam reforming reactor by adopting locally controlled heating zones. <i>Journal of Physics: Conference Series</i> , 2014, 530, 012040.	0.4	10
20	Evaluation of the Influence of Gadolinium Doped Ceria Particle Size on the Electrochemical Performance and Microstructure of Nickel-Gadolinium Doped Ceria Anodes. <i>ECS Transactions</i> , 2017, 78, 1149-1159.	0.5	10
21	Numerical analysis of single and multiple particles of Belchatow lignite dried in superheated steam. <i>Heat and Mass Transfer</i> , 2018, 54, 2215-2230.	2.1	10
22	Operando observation of patterned nickel - gadolinium doped ceria solid oxide fuel cell anode. <i>Journal of Power Sources</i> , 2021, 516, 230670.	7.8	10
23	Metallic PCM-integrated solid oxide fuel cell stack for operating range extension. <i>Energy Conversion and Management</i> , 2022, 255, 115309.	9.2	10
24	An Application of Generalized Least Squares Method to an Analysis of Methane/Steam Reforming Process on a Ni/YSZ Catalyst. <i>ECS Transactions</i> , 2013, 57, 2987-2996.	0.5	8
25	Evaluation of Strontium Doped Lanthanum Chromium Manganite (LSCM) and Gadolinium Doped Ceria (GDC) Anode with Different Compositions. <i>ECS Transactions</i> , 2019, 91, 1711-1720.	0.5	8
26	Experimental Attempts to Investigate the Influence of Petrographic Properties on Drying Characteristics of Lignite in Superheated Steam Atmosphere. <i>Energies</i> , 2016, 9, 371.	3.1	7
27	Towards the improvement of thermal efficiency in lignite-fired power generation: Concerning the utilization of Polish lignite deposits in state-of-the-art IGCC technology. <i>International Journal of Energy Research</i> , 2016, 40, 1757-1772.	4.5	7
28	Anisotropic microstructural evolution and coarsening in free sintering and constrained sintering of metal film by using FIB-SEM tomography. <i>Acta Materialia</i> , 2021, 215, 117087.	7.9	6
29	Unsupervised Generative Adversarial Network for 3-D Microstructure Synthesis from 2-D Image. <i>ECS Transactions</i> , 2021, 103, 1363-1373.	0.5	5
30	Design point analyses of solid oxide fuel cell-steam cycle combined system: Effects of fuel reforming and bottoming cycle steam parameters. <i>International Journal of Energy Research</i> , 2022, 46, 10844-10863.	4.5	4
31	A comparative study of two various empirical methodologies for deriving kinetics of methane/steam reforming reaction. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032026.	0.4	3
32	In-Operando Observations of Ni-YSZ Patterned Fuel Electrodes Under SOFC and SOEC Operations. <i>ECS Transactions</i> , 2021, 103, 1219-1226.	0.5	3
33	The effect of applied control strategy on the current-voltage correlation of a solid oxide fuel cell stack during dynamic operation. <i>Archives of Thermodynamics</i> , 2014, 35, 129-143.	1.0	2
34	Experimental and analytical evaluation of the drying kinetics of Belchatow lignite in relation to the size of particles. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032144.	0.4	2
35	Comprehensive study on the kinetics and modelling of superheated steam drying of Belchatow lignite from Poland. <i>Mechanical Engineering Journal</i> , 2016, 3, 16-00365-16-00365.	0.4	2
36	Microstructure and Performance of Ni-Free Nano La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ - Gd _{0.2} Ce _{0.8} O _x Composite Anode. <i>ECS Transactions</i> , 2021, 103, 2233-2243.	0.5	2

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37	Super-Resolved in-Operando Observation of SOFC Pattern Electrodes. ECS Transactions, 2021, 103, 2087-2098.	0.5	2
38	ICOPE-15-1035 Comprehensive study on the efficient superheated steam drying kinetics of the low rank coal from Belchatow deposit in Poland. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--ICOPE-15-.	0.0	2
39	An experimental verification of numerical model on superheated steam drying of Belchatow lignite. Journal of Physics: Conference Series, 2016, 745, 032145.	0.4	1
40	In-Operando Observations of Ni-YSZ Patterned Fuel Electrodes Under SOFC and SOEC Operations. ECS Meeting Abstracts, 2021, MA2021-03, 40-40.	0.0	1
41	Semantic Segmentation of SOFC Composite Electrode Images Incorporating Patch-Based Convolutional Neural Networks. ECS Meeting Abstracts, 2020, MA2020-02, 3848-3848.	0.0	1
42	Influence of geological variations on lignite drying kinetics in superheated steam atmosphere for Belchatow deposit located in the central Poland. Thermal Science, 2016, 20, 1185-1198.	1.1	1
43	Minimizing the Influence of Experimental Uncertainty for Delivered Methane/Steam Reforming Kinetic Equation by the Optimized Design of Experimentation. ECS Transactions, 2017, 78, 2633-2643.	0.5	0
44	Dependence of La _{0.57} Sr _{0.38} Co _{0.2} Fe _{0.8} O _{3-δ} Cathode Degradation Rate on Electrode Thickness. ECS Transactions, 2019, 91, 1273-1277.	0.5	0
45	Anisotropic Microstructural Evolution and Coarsening in Free Sintering and Constrained Sintering of Metal Film by Using FIB-SEM Tomography. SSRN Electronic Journal, 0, , .	0.4	0
46	Super-Resolved in-Operando Observation of SOFC Pattern Electrodes. ECS Meeting Abstracts, 2021, MA2021-03, 293-293.	0.0	0
47	Unsupervised Generative Adversarial Network for 3-D Microstructure Synthesis from 2-D Image. ECS Meeting Abstracts, 2021, MA2021-03, 55-55.	0.0	0
48	Microstructure and Performance of Ni-Free Nano La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ - Gd _{0.2} Ce _{0.8} O _x Composite Anode. ECS Meeting Abstracts, 2021, MA2021-03, 273-273.	0.0	0
49	S0820104 Experimental Study on the Drying Characteristics of Polish Lignite in an Atmospheric Superheated Steam Condition. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _S0820104-_S0820104-.	0.0	0
50	Experimental Optimization of Ni-GDC Microstructure with Various Phase Fractions for Solid Oxide Fuel Cell Anode. ECS Meeting Abstracts, 2019, , .	0.0	0
51	(Digital Presentation) Synthesizing Electrode Microstructures with Predefined Spatial Gradients By Conditional Generative Adversarial Networks. ECS Meeting Abstracts, 2022, MA2022-01, 1683-1683.	0.0	0