

Lars Nilausen Cleemann

List of Publications by Citations

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49
papers

2,348
citations

24
h-index

48
g-index

59
ext. papers

2,639
ext. citations

9
avg, IF

4.88
L-index

#	Paper	IF	Citations
49	Hollow spheres of iron carbide nanoparticles encased in graphitic layers as oxygen reduction catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3675-9	16.4	719
48	Thermal curing of PBI membranes for high temperature PEM fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5444		123
47	Crosslinked Hexafluoropropylidene Polybenzimidazole Membranes with Chloromethyl Polysulfone for Fuel Cell Applications. <i>Advanced Energy Materials</i> , 2013 , 3, 622-630	21.8	113
46	High Molecular Weight Polybenzimidazole Membranes for High Temperature PEMFC. <i>Fuel Cells</i> , 2014 , 14, 7-15	2.9	110
45	Hollow Spheres of Iron Carbide Nanoparticles Encased in Graphitic Layers as Oxygen Reduction Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 3749-3753	3.6	106
44	Phosphoric acid doped imidazolium polysulfone membranes for high temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2012 , 205, 114-121	8.9	96
43	Covalently cross-linked sulfone polybenzimidazole membranes with poly(vinylbenzyl chloride) for fuel cell applications. <i>ChemSusChem</i> , 2013 , 6, 275-82	8.3	74
42	Highly active and stable Pt electrocatalysts promoted by antimony-doped SnO ₂ supports for oxygen reduction reactions. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 112-120	21.8	70
41	Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200 °C. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4019-4024	13	68
40	Tungsten carbide promoted Pd and Pd ₂ O ₃ electrocatalysts for formic acid electrooxidation. <i>Journal of Power Sources</i> , 2012 , 219, 106-111	8.9	67
39	Long-term durability of HT-PEM fuel cells based on thermally cross-linked polybenzimidazole. <i>Journal of Power Sources</i> , 2017 , 342, 570-578	8.9	62
38	Roll-to-roll coated PBI membranes for high temperature PEM fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6076	35.4	62
37	Preparation and operation of gas diffusion electrodes for high-temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2007 , 172, 278-286	8.9	61
36	Synthesis and properties of poly(aryl sulfone benzimidazole) and its copolymers for high temperature membrane electrolytes for fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11185		60
35	⁵⁷ Fe-Mössbauer spectroscopy and electrochemical activities of graphitic layer encapsulated iron electrocatalysts for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 406-412	21.8	46
34	Long-Term Durability of PBI-Based HT-PEM Fuel Cells: Effect of Operating Parameters. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3053-F3062	3.9	40
33	Direct synthesis of Fe ₃ C-functionalized graphene by high temperature autoclave pyrolysis for oxygen reduction. <i>ChemSusChem</i> , 2014 , 7, 2099-103	8.3	39

32	Oxidative degradation of acid doped polybenzimidazole membranes and fuel cell durability in the presence of ferrous ions. <i>Journal of Power Sources</i> , 2013 , 238, 516-522	8.9	35
31	Polybenzimidazole-Based High-Temperature Polymer Electrolyte Membrane Fuel Cells: New Insights and Recent Progress. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 793-845	29.3	34
30	Immunity of the Fe-N-C catalysts to electrolyte adsorption: Phosphate but not perchloric anions. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 357-364	21.8	31
29	Synthesis of Pt-Rare Earth Metal Nanoalloys. <i>Journal of the American Chemical Society</i> , 2020 , 142, 953-961	16.4	28
28	Probing phosphoric acid redistribution and anion migration in polybenzimidazole membranes. <i>Electrochemistry Communications</i> , 2017 , 82, 21-24	5.1	26
27	Tetrazole substituted polymers for high temperature polymer electrolyte fuel cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14389-14400	13	24
26	meta-PBI/methylated PBI-OO blend membranes for acid doped HT PEMFC. <i>European Polymer Journal</i> , 2014 , 58, 135-143	5.2	24
25	Determination of Anion Transference Number and Phosphoric Acid Diffusion Coefficient in High Temperature Polymer Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F863-F869	3.9	18
24	Direct dimethyl ether fueling of a high temperature polymer fuel cell. <i>Journal of Power Sources</i> , 2012 , 211, 173-176	8.9	18
23	Phosphate-Doped Carbon Black as Pt Catalyst Support: Co-catalytic Functionality for Dimethyl Ether and Methanol Electro-oxidation. <i>ChemElectroChem</i> , 2014 , 1, 448-454	4.3	17
22	Catalyst evaluation for oxygen reduction reaction in concentrated phosphoric acid at elevated temperatures. <i>Journal of Power Sources</i> , 2018 , 375, 77-81	8.9	17
21	Electrochemical probing into the active sites of graphitic-layer encapsulated iron oxygen reduction reaction electrocatalysts. <i>Science Bulletin</i> , 2018 , 63, 24-30	10.6	16
20	Catalyst Degradation Under Potential Cycling as an Accelerated Stress Test for PBI-Based High-Temperature PEM Fuel Cells Effect of Humidification. <i>Electrocatalysis</i> , 2018 , 9, 302-313	2.7	14
19	The Electrochemical Behavior of Phosphoric-Acid-Doped Poly(perfluorosulfonic Acid) Membranes. <i>ChemElectroChem</i> , 2014 , 1, 1471-1475	4.3	13
18	Coupling between creep and redox behavior in nickel - yttria stabilized zirconia observed in-situ by monochromatic neutron imaging. <i>Journal of Power Sources</i> , 2017 , 340, 167-175	8.9	12
17	Durability Issues and Status of PBI-Based Fuel Cells		12
16	Influence of carbon monoxide on the cathode in high-temperature polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3309-3315	6.7	10
15	Phosphoric acid doped polysulfone membranes with aminopyridine pendant groups and imidazole cross-links. <i>European Polymer Journal</i> , 2015 , 72, 102-113	5.2	10

14	Flexible sample environment for high resolution neutron imaging at high temperatures in controlled atmosphere. <i>Review of Scientific Instruments</i> , 2015 , 86, 125109	1.7	10
13	Three-layered electrolyte membranes with acid reservoir for prolonged lifetime of high-temperature polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1008-1017	6.7	9
12	Mechanistic Insights into the Synthesis of Platinum-Bare Earth Metal Nanoalloys by a Solid-State Chemical Route. <i>Chemistry of Materials</i> , 2021 , 33, 535-546	9.6	9
11	Encapsulated iron-based oxygen reduction electrocatalysts by high pressure pyrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22887-22896	6.7	8
10	Catalyst Degradation in High Temperature Proton Exchange Membrane Fuel Cells Based on Acid Doped Polybenzimidazole Membranes. <i>Fuel Cells</i> , 2013 , 13, n/a-n/a	2.9	8
9	Phosphoric Acid Dynamics in High Temperature Polymer Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 134507	3.9	5
8	Revealing the genuine stability of the reference Pt/C electrocatalyst toward the ORR. <i>Electrochimica Acta</i> , 2021 , 391, 138963	6.7	5
7	Influence of oxygen on the cathode in HT-PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20379-20388	6.7	3
6	Platinum Iron Intermetallic Nanoparticles Supported on Carbon Formed In Situ by High-Pressure Pyrolysis for Efficient Oxygen Reduction. <i>ChemCatChem</i> , 2016 , 8, 3131-3136	5.2	3
5	High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Nanostructure Science and Technology</i> , 2019 , 45-79	0.9	2
4	Innenstruktur: Hollow Spheres of Iron Carbide Nanoparticles Encased in Graphitic Layers as Oxygen Reduction Catalysts (Angew. Chem. 14/2014). <i>Angewandte Chemie</i> , 2014 , 126, 3823-3823	3.6	2
3	A Direct DME High Temperature PEM Fuel Cell. <i>ECS Transactions</i> , 2013 , 50, 869-876	1	2
2	Catalytic Reduction of NO by Methane Using a Pt/Polybenzimidazole Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2007 , 154, E84	3.9	2
1	Electrochemical promotion of catalytic reactions with Pt/C (or Pt/Ru/C)//PBI catalysts. <i>Topics in Catalysis</i> , 2007 , 44, 427-434	2.3	1