Lars Nilausen Cleemann

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/402318/lars-nilausen-cleemann-publications-by-year.pdf
Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mechanistic Insights into the Synthesis of Platinum–Rare Earth Metal Nanoalloys by a Solid-State Chemical Route. *Chemistry of Materials*, **2021**, 33, 535-546	9.6	9
48	Revealing the genuine stability of the reference Pt/C electrocatalyst toward the ORR. *Electrochimica Acta*, **2021**, 391, 138963	6.7	5
47	Phosphoric Acid Dynamics in High Temperature Polymer Electrolyte Membranes. *Journal of the Electrochemical Society*, **2020**, 167, 134507	3.9	5
46	Synthesis of Pt-Rare Earth Metal Nanoalloys. *Journal of the American Chemical Society*, **2020**, 142, 953-961	16.4	28
45	Three-layered electrolyte membranes with acid–reservoir for prolonged lifetime of high-temperature polymer electrolyte membrane fuel cells. *International Journal of Hydrogen Energy*, **2020**, 45, 1008-1017	6.7	9
44	Polybenzimidazole-Based High-Temperature Polymer Electrolyte Membrane Fuel Cells: New Insights and Recent Progress. *Electrochemical Energy Reviews*, **2020**, 3, 793-845	29.3	34
43	Influence of oxygen on the cathode in HT-PEM fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 20379-20388	6.7	3
42	High-Temperature Polymer Electrolyte Membrane Fuel Cells. *Nanostructure Science and Technology* , **2019**, 45-79	0.9	2
41	Long-Term Durability of PBI-Based HT-PEM Fuel Cells: Effect of Operating Parameters. *Journal of the Electrochemical Society*, **2018**, 165, F3053-F3062	3.9	40
40	Immunity of the Fe-N-C catalysts to electrolyte adsorption: Phosphate but not perchloric anions. *Applied Catalysis B: Environmental*, **2018**, 234, 357-364	21.8	31
39	Catalyst Degradation Under Potential Cycling as an Accelerated Stress Test for PBI-Based High-Temperature PEM Fuel Cells—Effect of Humidification. *Electrocatalysis*, **2018**, 9, 302-313	2.7	14
38	57Fe-Mössbauer spectroscopy and electrochemical activities of graphitic layer encapsulated iron electrocatalysts for the oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2018**, 221, 406-412	21.8	46
37	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	3.9	18
36	Catalyst evaluation for oxygen reduction reaction in concentrated phosphoric acid at elevated temperatures. *Journal of Power Sources*, **2018**, 375, 77-81	8.9	17
35	Electrochemical probing into the active sites of graphitic-layer encapsulated iron oxygen reduction reaction electrocatalysts. *Science Bulletin*, **2018**, 63, 24-30	10.6	16
34	Influence of carbon monoxide on the cathode in high-temperature polymer electrolyte membrane fuel cells. *International Journal of Hydrogen Energy*, **2017**, 42, 3309-3315	6.7	10
33	Coupling between creep and redox behavior in nickel - yttria stabilized zirconia observed in-situ by monochromatic neutron imaging. *Journal of Power Sources*, **2017**, 340, 167-175	8.9	12

32	Long-term durability of HT-PEM fuel cells based on thermally cross-linked polybenzimidazole. *Journal of Power Sources*, **2017**, 342, 570-578	8.9	62
31	Probing phosphoric acid redistribution and anion migration in polybenzimidazole membranes. *Electrochemistry Communications*, **2017**, 82, 21-24	5.1	26
30	Encapsulated iron-based oxygen reduction electrocatalysts by high pressure pyrolysis. *International Journal of Hydrogen Energy*, **2017**, 42, 22887-22896	6.7	8
29	Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200 °C. *Journal of Materials Chemistry A*, **2016**, 4, 4019-4024	13	68
28	Durability Issues and Status of PBI-Based Fuel Cells **2016**, 487-509		12
27	Platinum Iron Intermetallic Nanoparticles Supported on Carbon Formed In Situ by High-Pressure Pyrolysis for Efficient Oxygen Reduction. *ChemCatChem*, **2016**, 8, 3131-3136	5.2	3
26	Tetrazole substituted polymers for high temperature polymer electrolyte fuel cells. *Journal of Materials Chemistry A*, **2015**, 3, 14389-14400	13	24
25	Phosphoric acid doped polysulfone membranes with aminopyridine pendant groups and imidazole cross-links. *European Polymer Journal*, **2015**, 72, 102-113	5.2	10
24	Flexible sample environment for high resolution neutron imaging at high temperatures in controlled atmosphere. *Review of Scientific Instruments*, **2015**, 86, 125109	1.7	10
23	meta-PBI/methylated PBI-OO blend membranes for acid doped HT PEMFC. *European Polymer Journal*, **2014**, 58, 135-143	5.2	24
22	High Molecular Weight Polybenzimidazole Membranes for High Temperature PEMFC. *Fuel Cells*, **2014**, 14, 7-15	2.9	110
21	Direct synthesis of Fe_3C-functionalized graphene by high temperature autoclave pyrolysis for oxygen reduction. *ChemSusChem*, **2014**, 7, 2099-103	8.3	39
20	Hollow spheres of iron carbide nanoparticles encased in graphitic layers as oxygen reduction catalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 3675-9	16.4	719
19	Hollow Spheres of Iron Carbide Nanoparticles Encased in Graphitic Layers as Oxygen Reduction Catalysts. *Angewandte Chemie*, **2014**, 126, 3749-3753	3.6	106
18	Innenrücktitelbild: Hollow Spheres of Iron Carbide Nanoparticles Encased in Graphitic Layers as Oxygen Reduction Catalysts (Angew. Chem. 14/2014). *Angewandte Chemie*, **2014**, 126, 3823-3823	3.6	2
17	The Electrochemical Behavior of Phosphoric-Acid-Doped Poly(perfluorosulfonic Acid) Membranes. *ChemElectroChem*, **2014**, 1, 1471-1475	4.3	13
16	Phosphate-Doped Carbon Black as Pt Catalyst Support: Co-catalytic Functionality for Dimethyl Ether and Methanol Electro-oxidation. *ChemElectroChem*, **2014**, 1, 448-454	4.3	17
15	Highly active and stable Pt electrocatalysts promoted by antimony-doped SnO_2 supports for oxygen reduction reactions. *Applied Catalysis B: Environmental*, **2014**, 144, 112-120	21.8	70

14	Oxidative degradation of acid doped polybenzimidazole membranes and fuel cell durability in the presence of ferrous ions. *Journal of Power Sources*, **2013**, 238, 516-522	8.9	35
13	Covalently cross-linked sulfone polybenzimidazole membranes with poly(vinylbenzyl chloride) for fuel cell applications. *ChemSusChem*, **2013**, 6, 275-82	8.3	74
12	Crosslinked Hexafluoropropylidene Polybenzimidazole Membranes with Chloromethyl Polysulfone for Fuel Cell Applications. *Advanced Energy Materials*, **2013**, 3, 622-630	21.8	113
11	Catalyst Degradation in High Temperature Proton Exchange Membrane Fuel Cells Based on Acid Doped Polybenzimidazole Membranes. *Fuel Cells*, **2013**, 13, n/a-n/a	2.9	8
10	A Direct DME High Temperature PEM Fuel Cell. *ECS Transactions*, **2013**, 50, 869-876	1	2
9	Phosphoric acid doped imidazolium polysulfone membranes for high temperature proton exchange membrane fuel cells. *Journal of Power Sources*, **2012**, 205, 114-121	8.9	96
8	Direct dimethyl ether fueling of a high temperature polymer fuel cell. *Journal of Power Sources*, **2012**, 211, 173-176	8.9	18
7	Roll-to-roll coated PBI membranes for high temperature PEM fuel cells. *Energy and Environmental Science*, **2012**, 5, 6076	35.4	62
6	Synthesis and properties of poly(aryl sulfone benzimidazole) and its copolymers for high temperature membrane electrolytes for fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 11185		60
5	Tungsten carbide promoted Pd and Pd□Co electrocatalysts for formic acid electrooxidation. *Journal of Power Sources*, **2012**, 219, 106-111	8.9	67
4	Thermal curing of PBI membranes for high temperature PEM fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 5444		123
3	Preparation and operation of gas diffusion electrodes for high-temperature proton exchange membrane fuel cells. *Journal of Power Sources*, **2007**, 172, 278-286	8.9	61
2	Electrochemical promotion of catalytic reactions with Pt/C (or Pt/Ru/C)//PBI catalysts. *Topics in Catalysis*, **2007**, 44, 427-434	2.3	1
1	Catalytic Reduction of NO by Methane Using a Pt□polybenzimidazole□Pt□ Fuel Cell. *Journal of the Electrochemical Society*, **2007**, 154, E84	3.9	2