

# Jan N Schwämmlein

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

450  
citations

1040056

9  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cathode Loading Impact on Voltage Cycling Induced PEMFC Degradation: A Voltage Loss Analysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3118-F3131.	2.9	110
2	Origin of Superior HOR/HER Activity of Bimetallic Pt-Ru Catalysts in Alkaline Media Identified via Ru@Pt Core-Shell Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2018, 165, H229-H239.	2.9	69
3	Top-Down Synthesis of Nanostructured Platinum-Lanthanide Alloy Oxygen Reduction Reaction Catalysts: Pt <sub>x</sub> Pr/C as an Example. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5129-5135.	8.0	60
4	On the Dominating Mechanism of the Hydrogen Evolution Reaction at Polycrystalline Pt Electrodes in Acidic Media. <i>ACS Catalysis</i> , 2018, 8, 9456-9462.	11.2	46
5	Activity and Stability of Carbon Supported Pt <sub>x</sub> Y Alloys for the ORR Determined by RDE and Single-Cell PEMFC Measurements. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3173-J3185.	2.9	42
6	Anode Aging during PEMFC Start-Up and Shut-Down: H <sub>2</sub> -Air Fronts vs Voltage Cycles. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1312-F1322.	2.9	35
7	Stabilization of Iron-Based Fuel Cell Catalysts by Non-Catalytic Platinum. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1084-F1091.	2.9	33
8	Pressure and Temperature Dependence of the Hydrogen Oxidation and Evolution Reaction Kinetics on Pt Electrocatalysts via PEMFC-based Hydrogen-Pump Measurements. <i>Journal of the Electrochemical Society</i> , 2021, 168, 064516.	2.9	23
9	Direct PtSn Alloy Formation by Pt Electrodeposition on Sn Surface. <i>Scientific Reports</i> , 2020, 10, 59.	3.3	12
10	Investigation of the effect of carbon post- vs pre-coated metallic bipolar plates for PEMFCs " start-up and shut-down. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8532-8548.	7.1	10
11	Through-Plane Conductivity of Anion Exchange Membranes at Sub-Freezing Temperatures"Hydroxide vs (Bi-)Carbonate Ions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084513.	2.9	8
12	Hydrogen Gas Promoted Self-Limiting Copper Monolayer Deposition on Platinum. <i>Journal of the Electrochemical Society</i> , 2021, 168, 052508.	2.9	2
13	Extending the Polyol Reduction Process into the Second Dimension: Oxide Thin Film Reduction. <i>Journal of the Electrochemical Society</i> , 2021, 168, 014506.	2.9	0