

Matija Gatalo

List of Publications by Year in descending order

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23
papers

687
citations

567281

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h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

603
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive Effect of Surface Doping with Au on the Stability of Pt-Based Electrocatalysts. ACS Catalysis, 2016, 6, 1630-1634.	11.2	90
2	Atomistic Insights into the Stability of Pt Single-Atom Electrocatalysts. Journal of the American Chemical Society, 2020, 142, 15496-15504.	13.7	75
3	Resolving the nanoparticles' structure-property relationships at the atomic level: a study of Pt-based electrocatalysts. IScience, 2021, 24, 102102.	4.1	57
4	Comparison of Pt-Cu/C with Benchmark Pt-Co/C: Metal Dissolution and Their Surface Interactions. ACS Applied Energy Materials, 2019, 2, 3131-3141.	5.1	54
5	Importance of non-intrinsic platinum dissolution in Pt/C composite fuel cell catalysts. Physical Chemistry Chemical Physics, 2017, 19, 21446-21452.	2.8	44
6	Insights into thermal annealing of highly-active PtCu ₃ /C Oxygen Reduction Reaction electrocatalyst: An in-situ heating transmission Electron microscopy study. Nano Energy, 2019, 63, 103892.	16.0	41
7	Understanding the Crucial Significance of the Temperature and Potential Window on the Stability of Carbon Supported Pt-Alloy Nanoparticles as Oxygen Reduction Reaction Electrocatalysts. ACS Catalysis, 2022, 12, 101-115.	11.2	38
8	CO-assisted ex-situ chemical activation of Pt-Cu/C oxygen reduction reaction electrocatalyst. Electrochimica Acta, 2019, 306, 377-386.	5.2	37
9	Atomically Resolved Anisotropic Electrochemical Shaping of Nano-electrocatalyst. Nano Letters, 2019, 19, 4919-4927.	9.1	33
10	Electrochemical in-situ dissolution study of structurally ordered, disordered and gold doped PtCu ₃ nanoparticles on carbon composites. Journal of Power Sources, 2016, 327, 675-680.	7.8	30
11	A Double-Passivation Water-Based Galvanic Displacement Method for Reproducible Gram-Scale Production of High-Performance Platinum-Alloy Electrocatalysts. Angewandte Chemie - International Edition, 2019, 58, 13266-13270.	13.8	29
12	The Importance of Temperature and Potential Window in Stability Evaluation of Supported Pt-Based Oxygen Reduction Reaction Electrocatalysts in Thin Film Rotating Disc Electrode Setup. Journal of the Electrochemical Society, 2020, 167, 114506.	2.9	22
13	Observing, tracking and analysing electrochemically induced atomic-scale structural changes of an individual Pt-Co nanoparticle as a fuel cell electrocatalyst by combining modified floating electrode and identical location electron microscopy. Electrochimica Acta, 2021, 388, 138513.	5.2	22
14	Toward the Continuous Production of Multigram Quantities of Highly Uniform Supported Metallic Nanoparticles and Their Application for Synthesis of Superior Intermetallic Pt-Alloy ORR Electrocatalysts. ACS Applied Energy Materials, 2021, 4, 13819-13829.	5.1	21
15	A Double-Passivation Water-Based Galvanic Displacement Method for Reproducible Gram-Scale Production of High-Performance Platinum-Alloy Electrocatalysts. Angewandte Chemie, 2019, 131, 13400-13404.	2.0	17
16	Importance of Chemical Activation and the Effect of Low Operation Voltage on the Performance of Pt-Alloy Fuel Cell Electrocatalysts. ACS Applied Energy Materials, 2022, 5, 8862-8877.	5.1	15
17	Insight on Single Cell Proton Exchange Membrane Fuel Cell Performance of Pt-Cu/C Cathode. Catalysts, 2019, 9, 544.	3.5	14
18	Insights into electrochemical dealloying of Cu out of Au-doped Pt-alloy nanoparticles at the sub-nano-scale. Journal of Electrochemical Science and Engineering, 2018, 8, 87-100.	3.5	13

#	ARTICLE	IF	CITATIONS
19	Gold Doping in PtCu ₃ /HSAC Nanoparticles and Their Morphological, Structural, and Compositional Changes during Oxygen Reduction Reaction Electrochemical Cycling. ChemCatChem, 2017, 9, 3904-3911.	3.7	12
20	Temperature dependent model of carbon supported platinum fuel cell catalyst degradation. Journal of Power Sources, 2021, 514, 230542.	7.8	12
21	The Influence Catalyst Layer Thickness on Resistance Contributions of PEMFC Determined by Electrochemical Impedance Spectroscopy. Energies, 2021, 14, 7299.	3.1	9
22	Electrocatalytic effects of Pt-based nanoparticles studied with advanced identical location electron microscopy. Microscopy and Microanalysis, 2021, 27, 2458-2458.	0.4	0
23	Nano-Engineering of High Performance Pt-Alloy Intermetallics. ECS Meeting Abstracts, 2021, MA2021-02, 1857-1857.	0.0	0