

# Matija Gatalo

## List of Publications by Year in descending order

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23  
papers

687  
citations

567281

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times ranked

603  
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#	ARTICLE	IF	CITATIONS
1	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
2	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
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	Electrocatalytic effects of Pt-based nanoparticles studied with advanced identical location electron microscopy. Microscopy and Microanalysis, 2021, 27, 2458-2458.	0.4	0
5	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
6	Temperature dependent model of carbon supported platinum fuel cell catalyst degradation. Journal of Power Sources, 2021, 514, 230542.	7.8	12
7	The Influence Catalyst Layer Thickness on Resistance Contributions of PEMFC Determined by Electrochemical Impedance Spectroscopy. Energies, 2021, 14, 7299.	3.1	9
8	Nano-Engineering of High Performance Pt-Alloy Intermetallics. ECS Meeting Abstracts, 2021, MA2021-02, 1857-1857.	0.0	0
9	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
10	Atomistic Insights into the Stability of Pt Single-Atom Electrocatalysts. Journal of the American Chemical Society, 2020, 142, 15496-15504.	13.7	75
11	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
12	Insights into thermal annealing of highly-active PtCu <sub>3</sub> /C Oxygen Reduction Reaction electrocatalyst: An in-situ heating transmission Electron microscopy study. Nano Energy, 2019, 63, 103892.	16.0	41
13	Insight on Single Cell Proton Exchange Membrane Fuel Cell Performance of Pt-Cu/C Cathode. Catalysts, 2019, 9, 544.	3.5	14
14	A Doubleâ€Passivation Waterâ€Based Galvanic Displacement Method for Reproducible Gramâ€Scale Production of Highâ€Performance Platinumâ€Alloy Electrocatalysts. Angewandte Chemie, 2019, 131, 13400-13404.	2.0	17
15	A Doubleâ€Passivation Waterâ€Based Galvanic Displacement Method for Reproducible Gramâ€Scale Production of Highâ€Performance Platinumâ€Alloy Electrocatalysts. Angewandte Chemie - International Edition, 2019, 58, 13266-13270.	13.8	29
16	Comparison of Ptâ€Cu/C with Benchmark Ptâ€Co/C: Metal Dissolution and Their Surface Interactions. ACS Applied Energy Materials, 2019, 2, 3131-3141.	5.1	54
17	Atomically Resolved Anisotropic Electrochemical Shaping of Nano-electrocatalyst. Nano Letters, 2019, 19, 4919-4927.	9.1	33
18	CO-assisted ex-situ chemical activation of Pt-Cu/C oxygen reduction reaction electrocatalyst. Electrochimica Acta, 2019, 306, 377-386.	5.2	37

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19	Insights into electrochemical dealloying of Cu out of Au-doped Pt-alloy nanoparticles at the sub-nano-scale. <i>Journal of Electrochemical Science and Engineering</i> , 2018, 8, 87-100.	3.5	13
20	Gold Doping in PtCu <sub>3</sub> /HSAC Nanoparticles and Their Morphological, Structural, and Compositional Changes during Oxygen Reduction Reaction Electrochemical Cycling. <i>ChemCatChem</i> , 2017, 9, 3904-3911.	3.7	12
21	Importance of non-intrinsic platinum dissolution in Pt/C composite fuel cell catalysts. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21446-21452.	2.8	44
22	Electrochemical in-situ dissolution study of structurally ordered, disordered and gold doped PtCu <sub>3</sub> nanoparticles on carbon composites. <i>Journal of Power Sources</i> , 2016, 327, 675-680.	7.8	30
23	Positive Effect of Surface Doping with Au on the Stability of Pt-Based Electrocatalysts. <i>ACS Catalysis</i> , 2016, 6, 1630-1634.	11.2	90