

Radoslav R Adzic

List of Publications by Year in descending order

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papers

4,827
citations

136950

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128289

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66
docs citations

66
times ranked

6518
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the Catalytic Activity of Platinum-Monolayer Electrocatalysts for Oxygen Reduction with Different Substrates. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2132-2135.	13.8	1,015
2	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2321-2325.	13.8	543
3	Transition Metal Nitride Coated with Atomic Layers of Pt as a Low-Cost, Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 1575-1583.	13.7	348
4	Elucidating Hydrogen Oxidation/Evolution Kinetics in Base and Acid by Enhanced Activities at the Optimized Pt Shell Thickness on the Ru Core. <i>ACS Catalysis</i> , 2015, 5, 6764-6772.	11.2	197
5	Bimetallic IrNi core platinum monolayer shell electrocatalysts for the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2012, 5, 5297-5304.	30.8	156
6	Enhancing Oxygen Reduction Reaction Activity via Pd ^δ -Au Alloy Sublayer Mediation of Pt Monolayer Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3238-3242.	4.6	150
7	Direct 12-Electron Oxidation of Ethanol on a Ternary Au(core)-PtIr(Shell) Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 9629-9636.	13.7	143
8	Gold-promoted structurally ordered intermetallic palladium cobalt nanoparticles for the oxygen reduction reaction. <i>Nature Communications</i> , 2014, 5, 5185.	12.8	134
9	Platinum Monolayer Electrocatalysts for Anodic Oxidation of Alcohols. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3480-3485.	4.6	132
10	Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1316-1320.	4.6	121
11	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. <i>Angewandte Chemie</i> , 2019, 131, 2343-2347.	2.0	95
12	Catalytic Activity of Platinum Monolayer on Iridium and Rhenium Alloy Nanoparticles for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012, 2, 817-824.	11.2	94
13	Increasing Pt oxygen reduction reaction activity and durability with a carbon-doped TiO ₂ nanocoating catalyst support. <i>Journal of Materials Chemistry</i> , 2012, 22, 16824.	6.7	91
14	Core-shell, hollow-structured iridium-nickel nitride nanoparticles for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 591-594.	10.3	83
15	Platinum Monolayer Electrocatalysts: Tunable Activity, Stability, and Self-Healing Properties. <i>Electrocatalysis</i> , 2012, 3, 163-169.	3.0	72
16	Pt monolayer on Au-stabilized PdNi core-shell nanoparticles for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 110, 267-272.	5.2	70
17	DFT Study of Oxygen Reduction Reaction on Os/Pt Core-shell Catalysts Validated by Electrochemical Experiment. <i>ACS Catalysis</i> , 2015, 5, 1568-1580.	11.2	70
18	Truncated Ditetragonal Gold Prisms as Nanofacet Activators of Catalytic Platinum. <i>Journal of the American Chemical Society</i> , 2011, 133, 18074-18077.	13.7	66

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19	Multifunctional Ultrathin Pd _{1-x} Cu _x and Pt ^{1/4} Pd _x Cu _{1-x} One-Dimensional Nanowire Motifs for Various Small Molecule Oxidation Reactions. ACS Applied Materials & Interfaces, 2015, 7, 26145-26157.	8.0	64
20	Ruthenium nanoparticles mounted on multielement co-doped graphene: an ultra-high-efficiency cathode catalyst for Li-O ₂ batteries. Journal of Materials Chemistry A, 2015, 3, 11224-11231.	10.3	61
21	Hydrogen Oxidation Reaction on Pt in Acidic Media: Adsorption Isotherm and Activation Free Energies. Journal of Physical Chemistry C, 2007, 111, 12425-12433.	3.1	56
22	Surface Proton Transfer Promotes Four-Electron Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Solution. Journal of the American Chemical Society, 2017, 139, 7310-7317.	13.7	51
23	Solvent effect in sonochemical synthesis of metal-alloy nanoparticles for use as electrocatalysts. Ultrasonics Sonochemistry, 2018, 41, 427-434.	8.2	47
24	In Situ Probing of the Active Site Geometry of Ultrathin Nanowires for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 12597-12609.	13.7	46
25	Janus structured Pt-FeNC nanoparticles as a catalyst for the oxygen reduction reaction. Chemical Communications, 2017, 53, 1660-1663.	4.1	46
26	Platinum Supported on NbRu _y O _z as Electrocatalyst for Ethanol Oxidation in Acid and Alkaline Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 3043-3056.	3.1	43
27	Adsorption Configuration and Local Ordering of Silicotungstate Anions on Ag(100) Electrode Surfaces. Journal of the American Chemical Society, 2001, 123, 8838-8843.	13.7	42
28	Platinum Monolayer Electrocatalysts for O ₂ Reduction: Pt Monolayer on Carbon-Supported PdIr Nanoparticles. Electrocatalysis, 2010, 1, 213-223.	3.0	40
29	Determination of Single- and Multi-Component Nanoparticle Sizes by X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2018, 165, J3222-J3230.	2.9	34
30	Pt Monolayer Shell on Nitrided Alloy Core—A Path to Highly Stable Oxygen Reduction Catalyst. Catalysts, 2015, 5, 1321-1332.	3.5	33
31	Optimizing PtFe intermetallics for oxygen reduction reaction: from DFT screening to in situ XAFS characterization. Nanoscale, 2019, 11, 20301-20306.	5.6	33
32	Platinum Monolayer on IrFe Core-Shell Nanoparticle Electrocatalysts for the Oxygen Reduction Reaction. Electrocatalysis, 2011, 2, 134-140.	3.0	31
33	Platinum Monolayer Electrocatalysts for the Oxygen Reduction Reaction: Improvements Induced by Surface and Subsurface Modifications of Cores. Advances in Physical Chemistry, 2011, 2011, 1-16.	2.0	30
34	Enhancing Oxygen Reduction Performance of Pt Monolayer Catalysts by Pd(111) Nanosheets on WNi Substrates. ACS Catalysis, 2020, 10, 4290-4298.	11.2	30
35	Correlating the chemical composition and size of various metal oxide substrates with the catalytic activity and stability of as-deposited Pt nanoparticles for the methanol oxidation reaction. Catalysis Science and Technology, 2016, 6, 2435-2450.	4.1	29
36	Enhancing Electrocatalytic Performance of Bifunctional Cobalt-Manganese Oxynitride Nanocatalysts on Graphene. ChemSusChem, 2017, 10, 68-73.	6.8	28

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37	Oxygen Reduction Reaction on Platinum-Terminated "Onion-structured" Alloy Catalysts. <i>Electrocatalysis</i> , 2012, 3, 192-202.	3.0	25
38	Copper Electrodeposition from Deep Eutectic Solvents" Voltammetric Studies Providing Insights into the Role of Substrate: Platinum vs Glassy Carbon. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5465-5475.	2.6	24
39	Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20725-20736.	10.3	22
40	High Pressure Nitrogen-Infused Ultrastable Fuel Cell Catalyst for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 5525-5531.	11.2	22
41	Modification of the Coordination Environment of Active Sites on MoC for High-Efficiency CH ₄ Production. <i>Advanced Energy Materials</i> , 2021, 11, 2100044.	19.5	21
42	Metalizing carbon nanotubes with Pd-Pt core-shell nanowires enhances electrocatalytic activity and stability in the oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1171-1179.	2.5	19
43	Evaluation of Phase Segregation in Ternary Pt-Rh-SnO ₂ Catalysts Prepared from the Vapor Phase. <i>Microscopy and Microanalysis</i> , 2014, 20, 462-463.	0.4	18
44	Enhanced Oxygen Reduction Activity of IrCu Core Platinum Monolayer Shell Nano-electrocatalysts. <i>Topics in Catalysis</i> , 2013, 56, 1059-1064.	2.8	17
45	Enhancement of oxygen reduction reaction activities by Pt nanoclusters decorated on ordered mesoporous porphyrinic carbons. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5869-5876.	10.3	17
46	Platinum and Palladium Monolayer Electrocatalysts for Formic Acid Oxidation. <i>Topics in Catalysis</i> , 2020, 63, 742-749.	2.8	17
47	Au-Doped Stable L1 ₀ Structured Platinum Cobalt Ordered Intermetallic Nanoparticle Catalysts for Enhanced Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2018, 1, 3771-3777.	5.1	16
48	Formic Acid Electrooxidation on Pt or Pd Monolayer on Transition-Metal Single Crystals: A First-Principles Structure Sensitivity Analysis. <i>ACS Catalysis</i> , 2021, 11, 5294-5309.	11.2	15
49	Platinum Monolayer Electrocatalysts for Methanol Oxidation. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3300-F3304.	2.9	14
50	Electrodeposition of Pt onto RuO ₂ (110) Single-Crystal Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15306-15311.	3.1	13
51	One-Step Facile Synthesis of High-Activity Nitrogen-Doped PtNiN Oxygen Reduction Catalyst. <i>ACS Applied Energy Materials</i> , 2022, 5, 5245-5255.	5.1	11
52	Recent Developments in the Electrocatalysis of the O ₂ Reduction Reaction. , 0, , 271-315.		10
53	Evaluation of Oxygen Reduction Activity by the Thin-Film Rotating Disk Electrode Methodology: the Effects of Potentiodynamic Parameters. <i>Electrocatalysis</i> , 2016, 7, 305-316.	3.0	9
54	InnenrÄ¼cktitelbild: Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation (<i>Angew. Chem.</i> 8/2019). <i>Angewandte Chemie</i> , 2019, 131, 2547-2547.	2.0	7

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55	Controllable Deposition of Platinum Layers on Oxide Surfaces for the Synthesis of Fuel Cell Catalysts. ChemElectroChem, 2016, 3, 1635-1640.	3.4	4
56	Platinum Monolayer Electrocatalysts. , 2020, , .		4
57	Pt monolayer shell on hollow Pd core electrocatalysts: Scale up synthesis, structure, and activity for the oxygen reduction reaction. Journal of the Serbian Chemical Society, 2013, 78, 1983-1992.	0.8	3
58	Infrared spectroscopy of bare single crystal and nano-particle covered surfaces. Journal of the Serbian Chemical Society, 2006, 71, 945-948.	0.8	1
59	(Invite) Insights in Measuring Particle Size of Multiatomic Nanoparticles By XAS. ECS Meeting Abstracts, 2018, , .	0.0	0
60	Infrared spectroelectrochemical configurations for in situ measurements. Journal of the Serbian Chemical Society, 2019, 84, 1235-1247.	0.8	0
61	Catalytic Properties of Pt Monolayer Electrocatalysts. , 2020, , 101-152.		0