# Jia Xu Wang

List of Publications by Year
in descending order

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|---|---|---|---|
| 32 papers | 3,764 citations | 218677 26 h-index | 477307 29 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 4757 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | NbOx nano-nail with a Pt head embedded in carbon as a highly active and durable oxygen reduction catalyst. Nano Energy, 2020, 69, 104455. | 16.0 | 37 |
| 2 | Enhanced Oxygen Reduction Performance on PtNiN/C Catalysts. ECS Meeting Abstracts, 2020, MA2020-02, 2312-2312. | 0.0 | 0 |
| 3 | Direct 12-Electron Oxidation of Ethanol on a Ternary Au(core)-PtIr(Shell) Electrocatalyst. Journal of the American Chemical Society, 2019, 141, 9629-9636. | 13.7 | 143 |
| 4 | Platinum-Iridium Modified Gold Nanoparticles Catalysts for Electrooxidation of Ethanol in Alkaline Media. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 5 | (Invited) Challenges and Opportunities in Developing Anode Catalysts for Direct Ethanol and Ammonia Fuel Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 6 | Iridium-Based Catalysts for Electro-Oxidation of Ammonia in Alkaline Media. ECS Meeting Abstracts, 2019, , . | 0.0 | 1 |
| 7 | Reaction mechanism for oxygen evolution on RuO2, IrO2, and RuO2@IrO2 core-shell nanocatalysts. Journal of Electroanalytical Chemistry, 2018, 819, 296-305. | 3.8 | 141 |
| 8 | Favorable Core/Shell Interface within Co<sub>2</sub>P/Pt Nanorods for Oxygen Reduction Electrocatalysis. Nano Letters, 2018, 18, 7870-7875. | 9.1 | 68 |
| 9 | Temperature-Dependent Kinetics and Reaction Mechanism of Ammonia Oxidation on Pt, Ir, and PtIr Alloy Catalysts. Journal of the Electrochemical Society, 2018, 165, J3095-J3100. | 2.9 | 49 |
| 10 | 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 |
| 11 | Pathways to ultra-low platinum group metal catalyst loading in proton exchange membrane electrolyzers. Catalysis Today, 2016, 262, 121-132. | 4.4 | 129 |
| 12 | Ultralow charge-transfer resistance with ultralow Pt loading for hydrogen evolution and oxidation using Ru@Pt core-shell nanocatalysts. Scientific Reports, 2015, 5, 12220. | 3.3 | 44 |
| 13 | Elucidating Hydrogen Oxidation/Evolution Kinetics in Base and Acid by Enhanced Activities at the Optimized Pt Shell Thickness on the Ru Core. ACS Catalysis, 2015, 5, 6764-6772. | 11.2 | 197 |
| 14 | High Performance Pt Monolayer Catalysts Produced via Core-Catalyzed Coating in Ethanol. ACS Catalysis, 2014, 4, 738-742. | 11.2 | 78 |
| 15 | Hydrogen Oxidation and Evolution on Platinum in Acids. , 2014, , 1045-1049. | | 1 |
| 16 | Ordered bilayer ruthenium–platinum core-shell nanoparticles as carbon monoxide-tolerant fuel cell catalysts. Nature Communications, 2013, 4, 2466. | 12.8 | 200 |
| 17 | Hollow core supported Pt monolayer catalysts for oxygen reduction. Catalysis Today, 2013, 202, 50-54. | 4.4 | 74 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Kirkendall Effect and Lattice Contraction in Nanocatalysts: A New Strategy to Enhance Sustainable Activity. Journal of the American Chemical Society, 2011, 133, 13551-13557. | 13.7 | 255 |
| 20 | Truncated Ditetragonal Gold Prisms as Nanofacet Activators of Catalytic Platinum. Journal of the American Chemical Society, 2011, 133, 18074-18077. | 13.7 | 66 |
| 21 | Low-Coordination Sites in Oxygen-Reduction Electrocatalysis: Their Roles and Methods for Removal. Langmuir, 2011, 27, 8540-8547. | 3.5 | 76 |
| 22 | Coreâ€Protected Platinum Monolayer Shell Highâ€Stability Electrocatalysts for Fuelâ€Cell Cathodes. Angewandte Chemie - International Edition, 2010, 49, 8602-8607. | 13.8 | 554 |
| 23 | Enhancing Oxygen Reduction Reaction Activity via Pdâ^'Au Alloy Sublayer Mediation of Pt Monolayer Electrocatalysts. Journal of Physical Chemistry Letters, 2010, 1, 3238-3242. | 4.6 | 150 |
| 24 | Gram-Scale-Synthesized Pd<sub>2</sub>Co-Supported Pt Monolayer Electrocatalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2010, 114, 8950-8957. | 3.1 | 54 |
| 25 | Oxygen Reduction on Well-Defined Coreâ^'Shell Nanocatalysts: Particle Size, Facet, and Pt Shell Thickness Effects. Journal of the American Chemical Society, 2009, 131, 17298-17302. | 13.7 | 688 |
| 26 | Intrinsic kinetic equation for oxygenreduction reaction in acidic media: the double Tafel slope and fuelcell applications. Faraday Discussions, 2008, 140, 347-362. | 3.2 | 150 |
| 27 | Double-Trap Kinetic Equation for the Oxygen Reduction Reaction on Pt(111) in Acidic Media. Journal of Physical Chemistry A, 2007, 111, 12702-12710. | 2.5 | 185 |
| 28 | Hydrogen Oxidation Reaction on Pt in Acidic Media:â€‰ Adsorption Isotherm and Activation Free Energies. Journal of Physical Chemistry C, 2007, 111, 12425-12433. | 3.1 | 56 |
| 29 | Dual-Pathway Kinetic Equation for the Hydrogen Oxidation Reaction on Pt Electrodes. Journal of the Electrochemical Society, 2006, 153, A1732. | 2.9 | 144 |
| 30 | Formation of Ordered Multilayers from Polyoxometalates and Silver on Electrode Surfaces. Journal of Physical Chemistry B, 2004, 108, 7927-7933. | 2.6 | 22 |
| 31 | 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 |
| 32 | X-ray Scattering Study of Tl Adlayers on the Au(111) Electrode in Alkaline Solutions: Metal Monolayer, OH- Coadsorption, and Oxide Formation. The Journal of Physical Chemistry, 1994, 98, 7182-7190. | 2.9 | 53 |