Kotaro Sasaki

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | An efficient and durable anode for ammonia protonic ceramic fuel cells. Energy and Environmental Science, 2022, 15, 287-295. | 30.8 | 64 |
| 2 | Modulation of the coordination environment enhances the electrocatalytic efficiency of Mo single atoms toward water splitting. Journal of Materials Chemistry A, 2022, 10, 8784-8797. | 10.3 | 17 |
| 3 | One-Step Facile Synthesis of High-Activity Nitrogen-Doped PtNiN Oxygen Reduction Catalyst. ACS Applied Energy Materials, 2022, 5, 5245-5255. | 5.1 | 11 |
| 4 | Advanced Pt-Based Core–Shell Electrocatalysts for Fuel Cell Cathodes. Accounts of Chemical Research, 2022, 55, 1226-1236. | 15.6 | 65 |
| 5 | Surface restructuring of a perovskite-type air electrode for reversible protonic ceramic electrochemical cells. Nature Communications, 2022, 13, 2207. | 12.8 | 65 |
| 6 | Surface Regulating of a Doubleâ€Perovskite Electrode for Protonic Ceramic Fuel Cells to Enhance Oxygen Reduction Activity and Contaminants Poisoning Tolerance. Advanced Energy Materials, 2022, 12, . | 19.5 | 24 |
| 7 | Nitrogen-Doped PtNi Catalysts on Polybenzimidazole-Functionalized Carbon Support for the Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2022, 14, 26814-26823. | 8.0 | 5 |
| 8 | Yttrium-based Double Perovskite Nanorods for Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 30914-30926. | 8.0 | 2 |
| 9 | Investigating corrosion behavior of Ni and Ni-20Cr in molten ZnCl2. Corrosion Science, 2021, 179, 109105. | 6.6 | 22 |
| 10 | Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 184-192. | 11.2 | 51 |
| 11 | High Pressure Nitrogen-Infused Ultrastable Fuel Cell Catalyst for Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 5525-5531. | 11.2 | 22 |
| 12 | Determining oxidation states of transition metals in molten salt corrosion using electron energy loss spectroscopy. Scripta Materialia, 2021, 197, 113790. | 5.2 | 15 |
| 13 | A Cu ₂ Oâ€derived Polymeric Carbon Nitride Heterostructured Catalyst for the Electrochemical Reduction of Carbon Dioxide to Ethylene. ChemSusChem, 2021, 14, 3190-3197. | 6.8 | 18 |
| 14 | An Efficient Bifunctional Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. Advanced Functional Materials, 2021, 31, 2105386. | 14.9 | 66 |
| 15 | <i>In Situ</i> X-ray Absorption Spectroscopy of PtNi-Nanowire/Vulcan XC-72R under Oxygen Reduction Reaction in Alkaline Media. ACS Omega, 2021, 6, 17203-17216. | 3.5 | 5 |
| 16 | H ₂ O ₂ production on a carbon cathode loaded with a nickel carbonate catalyst and on an oxide photoanode without an external bias. RSC Advances, 2021, 11, 11224-11232. | 3.6 | 2 |
| 17 | Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting. Advanced Energy Materials, 2021, 11, 2101827. | 19.5 | 24 |
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18 Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting (Adv.) Tj ETQq0 0 0 rgBT /Qyerlock 19 Tf 50 62

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|----|--|------|-----------|
| 19 | High-Performance Nitrogen-Doped Intermetallic PtNi Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 10637-10645. | 11.2 | 98 |
| 20 | Structure and dynamics of the molten alkali-chloride salts from an X-ray, simulation, and rate theory perspective. Physical Chemistry Chemical Physics, 2020, 22, 22900-22917. | 2.8 | 22 |
| 21 | Designing high performance Pt monolayer core–shell electrocatalysts for fuel cells. Current Opinion in Electrochemistry, 2020, 21, 368-375. | 4.8 | 35 |
| 22 | Revealing 3D Morphological and Chemical Evolution Mechanisms of Metals in Molten Salt by Multimodal Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 17321-17333. | 8.0 | 20 |
| 23 | Enhancing Oxygen Reduction Performance of Pt Monolayer Catalysts by Pd(111) Nanosheets on WNi Substrates. ACS Catalysis, 2020, 10, 4290-4298. | 11.2 | 30 |
| 24 | Enhancing ORR Performance of Bimetallic PdAg Electrocatalysts by Designing Interactions between Pd and Ag. ACS Applied Energy Materials, 2020, 3, 2342-2349. | 5.1 | 36 |
| 25 | Quantitative Nanoscale 3D Imaging of Intergranular Corrosion of 304ÂStainless Steel Using Hard X-Ray Nanoprobe. Journal of the Electrochemical Society, 2019, 166, C3320-C3325. | 2.9 | 6 |
| 26 | Kern‧chale‧trukturierung rein metallischer Aerogele für eine hocheffiziente Nutzung von Platin für die Sauerstoffreduktion. Angewandte Chemie, 2018, 130, 3014-3018. | 2.0 | 7 |
| 27 | Core–Shell Structuring of Pure Metallic Aerogels towards Highly Efficient Platinum Utilization for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2018, 57, 2963-2966. | 13.8 | 154 |
| 28 | Determination of Hydrogen Oxidation Reaction Mechanism Based on Ptâ^'H _{ad} Energetics in Alkaline Electrolyte. Journal of the Electrochemical Society, 2018, 165, J3355-J3362. | 2.9 | 38 |
| 29 | Highly Dispersed Carbon Supported PdNiMo Core with Pt Monolayer Shell Electrocatalysts for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2018, 165, J3295-J3300. | 2.9 | 8 |
| 30 | Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 20725-20736. | 10.3 | 22 |
| 31 | 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 |
| 32 | Au-Doped Stable L1 ₀ Structured Platinum Cobalt Ordered Intermetallic Nanoparticle Catalysts for Enhanced Electrocatalysis. ACS Applied Energy Materials, 2018, 1, 3771-3777. | 5.1 | 16 |
| 33 | Modification of BiVO ₄ /WO ₃ composite photoelectrodes with Al ₂ O ₃ <i>via</i> chemical vapor deposition for highly efficient oxidative H ₂ O ₂ production from H ₂ O. Sustainable Energy and Fuels, 2018, | 4.9 | 44 |
| 34 | (Invite) Insights in Measuring Particle Size of Multiatomic Nanoparticles By XAS. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 35 | Janus structured Pt–FeNC nanoparticles as a catalyst for the oxygen reduction reaction. Chemical Communications, 2017, 53, 1660-1663. | 4.1 | 46 |
| 36 | Design of efficient Pt-based electrocatalysts through characterization by X-ray absorption spectroscopy. Frontiers in Energy, 2017, 11, 236-244. | 2.3 | 1 |

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|----|---|------|-----------|
| 37 | Enhancing Electrocatalytic Performance of Bifunctional Cobalt–Manganeseâ€Oxynitride Nanocatalysts on Graphene. ChemSusChem, 2017, 10, 68-73. | 6.8 | 28 |
| 38 | Increasing Stability and Activity of Core–Shell Catalysts by Preferential Segregation of Oxide on Edges and Vertexes: Oxygen Reduction on Ti–Au@Pt/C. Journal of the American Chemical Society, 2016, 138, 9294-9300. | 13.7 | 83 |
| 39 | Tuning electrocatalytic activity of Pt monolayer shell by bimetallic Ir-M (M=Fe, Co, Ni or Cu) cores for the oxygen reduction reaction. Nano Energy, 2016, 29, 261-267. | 16.0 | 61 |
| 40 | Evaluation of Oxygen Reduction Activity by the Thin-Film Rotating Disk Electrode Methodology: the Effects of Potentiodynamic Parameters. Electrocatalysis, 2016, 7, 305-316. | 3.0 | 9 |
| 41 | Oxygen Reduction Kinetics on Pt Monolayer Shell Highly Affected by the Structure of Bimetallic AuNi Cores. Chemistry of Materials, 2016, 28, 5274-5281. | 6.7 | 46 |
| 42 | Enhancement of oxygen reduction reaction activities by Pt nanoclusters decorated on ordered mesoporous porphyrinic carbons. Journal of Materials Chemistry A, 2016, 4, 5869-5876. | 10.3 | 17 |
| 43 | Synchrotron-Based In Situ Characterization of Carbon-Supported Platinum and Platinum Monolayer Electrocatalysts. ACS Catalysis, 2016, 6, 69-76. | 11.2 | 100 |
| 44 | X-Ray Absorption Spectroscopic Characterization of Nanomaterial Catalysts in Electrochemistry and Fuel Cells. , 2016, , 315-365. | | 2 |
| 45 | Nanoparticle size evaluation of catalysts by EXAFS: Advantages and limitations. Materials Protection, 2016, 57, 101-109. | 0.9 | 33 |
| 46 | Pt Monolayer Shell on Nitrided Alloy Core—A Path to Highly Stable Oxygen Reduction Catalyst. Catalysts, 2015, 5, 1321-1332. | 3.5 | 33 |
| 47 | Biomass-derived high-performance tungsten-based electrocatalysts on graphene for hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 18572-18577. | 10.3 | 43 |
| 48 | Enhancement of the oxygen reduction on nitride stabilized pt-M (M=Fe, Co, and Ni) core–shell nanoparticle electrocatalysts. Nano Energy, 2015, 13, 442-449. | 16.0 | 104 |
| 49 | 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 |
| 50 | Cerium oxide as a promoter for the electro-oxidation reaction of ethanol: in situ XAFS characterization of the Pt nanoparticles supported on CeO ₂ nanoparticles and nanorods. Physical Chemistry Chemical Physics, 2015, 17, 32251-32256. | 2.8 | 6 |
| 51 | EDTA-Ce(III) Modified Pt Vulcan XC-72 Catalyst Synthesis for Methanol Oxidation in Acid Solution. Electrocatalysis, 2014, 5, 50-61. | 3.0 | 7 |
| 52 | Gold-promoted structurally ordered intermetallic palladium cobalt nanoparticles for the oxygen reduction reaction. Nature Communications, 2014, 5, 5185. | 12.8 | 134 |
| 53 | Tungsten Carbide–Nitride on Graphene Nanoplatelets as a Durable Hydrogen Evolution Electrocatalyst. ChemSusChem, 2014, 7, 2414-2418. | 6.8 | 101 |
| 54 | Core–shell, hollow-structured iridium–nickel nitride nanoparticles for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 591-594. | 10.3 | 83 |

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|----|--|------|-----------|
| 55 | Pt monolayer on Au-stabilized PdNi core–shell nanoparticles for oxygen reduction reaction. Electrochimica Acta, 2013, 110, 267-272. | 5.2 | 70 |
| 56 | Enhanced Oxygen Reduction Activity of IrCu Core Platinum Monolayer Shell Nano-electrocatalysts. Topics in Catalysis, 2013, 56, 1059-1064. | 2.8 | 17 |
| 57 | Tuning the Catalytic Activity of Ru@Pt Core–Shell Nanoparticles for the Oxygen Reduction Reaction by Varying the Shell Thickness. Journal of Physical Chemistry C, 2013, 117, 1748-1753. | 3.1 | 140 |
| 58 | Biomass-derived electrocatalytic composites for hydrogen evolution. Energy and Environmental Science, 2013, 6, 1818. | 30.8 | 343 |
| 59 | Catalytic Activity of Platinum Monolayer on Iridium and Rhenium Alloy Nanoparticles for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 817-824. | 11.2 | 94 |
| 60 | Increasing Pt oxygen reduction reaction activity and durability with a carbon-doped TiO2 nanocoating catalyst support. Journal of Materials Chemistry, 2012, 22, 16824. | 6.7 | 91 |
| 61 | Nitride Stabilized PtNi Core–Shell Nanocatalyst for high Oxygen Reduction Activity. Nano Letters, 2012, 12, 6266-6271. | 9.1 | 213 |
| 62 | Highly stable Pt monolayer on PdAu nanoparticle electrocatalysts for the oxygen reduction reaction. Nature Communications, 2012, 3, 1115. | 12.8 | 377 |
| 63 | Bimetallic IrNi core platinum monolayer shell electrocatalysts for the oxygen reduction reaction. Energy and Environmental Science, 2012, 5, 5297-5304. | 30.8 | 156 |
| 64 | Hydrogenâ€Evolution Catalysts Based on Nonâ€Noble Metal Nickel–Molybdenum Nitride Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 6131-6135. | 13.8 | 1,174 |
| 65 | Carbon-Supported IrNi Core–Shell Nanoparticles: Synthesis, Characterization, and Catalytic Activity. Journal of Physical Chemistry C, 2011, 115, 9894-9902. | 3.1 | 58 |
| 66 | Platinum Supported on NbRu _{<i>y</i>} O _{<i>z</i>} as Electrocatalyst for Ethanol Oxidation in Acid and Alkaline Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 3043-3056. | 3.1 | 43 |
| 67 | Platinum Monolayer on IrFe Core–Shell Nanoparticle Electrocatalysts for the Oxygen Reduction Reaction. Electrocatalysis, 2011, 2, 134-140. | 3.0 | 31 |
| 68 | Coreâ€Protected Platinum Monolayer Shell Highâ€Stability Electrocatalysts for Fuel ell Cathodes. Angewandte Chemie - International Edition, 2010, 49, 8602-8607. | 13.8 | 554 |
| 69 | Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. Journal of Physical Chemistry Letters, 2010, 1, 1316-1320. | 4.6 | 121 |
| 70 | Gram-Scale-Synthesized Pd ₂ Co-Supported Pt Monolayer Electrocatalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2010, 114, 8950-8957. | 3.1 | 54 |
| 71 | Dissolution and Stabilization of Platinum in Oxygen Cathodes. , 2009, , 7-27. | | 50 |
| 72 | Bimetallic and Ternary Alloys for Improved Oxygen Reduction Catalysis. Topics in Catalysis, 2007, 46, 276-284. | 2.8 | 202 |

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|----|--|------|-----------|
| 73 | Platinum submonolayer-monolayer electrocatalysis: An electrochemical and X-ray absorption spectroscopy study. Research on Chemical Intermediates, 2006, 32, 543-559. | 2.7 | 19 |
| 74 | Mixed-Metal Pt Monolayer Electrocatalysts for Enhanced Oxygen Reduction Kinetics. Journal of the American Chemical Society, 2005, 127, 12480-12481. | 13.7 | 556 |