# Jingâ€˜Li Luo

## List of Publications by Year in descending order

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|---|---|---|---|
| 243 papers | 10,616 citations | 26630 56 h-index | 51608 86 g-index |

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|---|---|---|---|
| 250 all docs | 250 docs citations | 250 times ranked | 7945 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Shape-Dependent Electrocatalytic Reduction of CO<sub>2</sub> to CO on Triangular Silver Nanoplates. Journal of the American Chemical Society, 2017, 139, 2160-2163. | 13.7 | 551 |
| 2 | Recent Advances in MOFâ€Derived Single Atom Catalysts for Electrochemical Applications. Advanced Energy Materials, 2020, 10, 2001561. | 19.5 | 265 |
| 3 | New Opportunity for in Situ Exsolution of Metallic Nanoparticles on Perovskite Parent. Nano Letters, 2016, 16, 5303-5309. | 9.1 | 222 |
| 4 | Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. ACS Nano, 2019, 13, 11843-11852. | 14.6 | 210 |
| 5 | Highly Stable and Efficient Catalyst with In Situ Exsolved Feâ€“Ni Alloy Nanospheres Socketed on an Oxygen Deficient Perovskite for Direct CO<sub>2</sub> Electrolysis. ACS Catalysis, 2016, 6, 6219-6228. | 11.2 | 206 |
| 6 | Boosting H<sub>2</sub> Generation Coupled with Selective Oxidation of Methanol into Valueâ€Added Chemical over Cobalt Hydroxide@Hydroxysulfide Nanosheets Electrocatalysts. Advanced Functional Materials, 2020, 30, 1909610. | 14.9 | 190 |
| 7 | A coupling for success: Controlled growth of Co/CoOx nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. Nano Energy, 2017, 32, 247-254. | 16.0 | 189 |
| 8 | A-site deficient perovskite: the parent for in situ exsolution of highly active, regenerable nano-particles as SOFC anodes. Journal of Materials Chemistry A, 2015, 3, 11048-11056. | 10.3 | 164 |
| 9 | Progress in La-doped SrTiO<sub>3</sub>(LST)-based anode materials for solid oxide fuel cells. RSC Advances, 2014, 4, 118-131. | 3.6 | 157 |
| 10 | In situ facile fabrication of Ni(OH)2 nanosheet arrays for electrocatalytic co-production of formate and hydrogen from methanol in alkaline solution. Applied Catalysis B: Environmental, 2021, 281, 119510. | 20.2 | 154 |
| 11 | Coupling efficient biomass upgrading with H<sub>2</sub> production via bifunctional Cu<sub>x</sub>S@NiCo-LDH coreâ€“shell nanoarray electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 1138-1146. | 10.3 | 132 |
| 12 | Allâ€Inâ€One Perovskite Catalyst: Smart Controls of Architecture and Composition toward Enhanced Oxygen/Hydrogen Evolution Reactions. Advanced Energy Materials, 2017, 7, 1700666. | 19.5 | 124 |
| 13 | Understanding the Roles of Electrogenerated Co<sup>3+</sup> and Co<sup>4+</sup> in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie - International Edition, 2021, 60, 20535-20542. | 13.8 | 121 |
| 14 | Development of electroless Niâ€“P/nano-WC composite coatings and investigation on its properties. Surface and Coatings Technology, 2015, 277, 99-106. | 4.8 | 115 |
| 15 | Ultrathin 5-fold twinned sub-25 nm silver nanowires enable highly selective electroreduction of CO2 to CO. Nano Energy, 2018, 45, 456-462. | 16.0 | 115 |
| 16 | A-site-deficiency facilitated in situ growth of bimetallic Niâ€“Fe nano-alloys: a novel coking-tolerant fuel cell anode catalyst. Nanoscale, 2015, 7, 11173-11181. | 5.6 | 107 |
| 17 | CO<sub>2</sub>-to-CO conversion on layered perovskite with in situ exsolved Coâ€“Fe alloy nanoparticles: an active and stable cathode for solid oxide electrolysis cells. Journal of Materials Chemistry A, 2016, 4, 17521-17528. | 10.3 | 106 |
| 18 | The Excellence of Both Worlds: Developing Effective Double Perovskite Oxide Catalyst of Oxygen Reduction Reaction for Room and Elevated Temperature Applications. Advanced Functional Materials, 2016, 26, 4106-4112. | 14.9 | 106 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Novel layered solid oxide fuel cells with multiple-twinned Ni<sub>0.8</sub>Co<sub>0.2</sub> nanoparticles: the key to thermally independent CO<sub>2</sub> utilization and power-chemical cogeneration. Energy and Environmental Science, 2016, 9, 207-215. | 30.8 | 103 |
| 20 | Boosting formate production at high current density from CO2 electroreduction on defect-rich hierarchical mesoporous Bi/Bi2O3 junction nanosheets. Applied Catalysis B: Environmental, 2020, 271, 118957. | 20.2 | 103 |
| 21 | Highly Active and Redox-Stable Ce-Doped LaSrCrFeO-Based Cathode Catalyst for CO<sub>2</sub> SOECs. ACS Applied Materials & Interfaces, 2016, 8, 6457-6463. | 8.0 | 101 |
| 22 | Activating p-Blocking Centers in Perovskite for Efficient Water Splitting. CheM, 2018, 4, 2902-2916. | 11.7 | 99 |
| 23 | Enhancing Perovskite Electrocatalysis of Solid Oxide Cells Through Controlled Exsolution of Nanoparticles. ChemSusChem, 2017, 10, 3333-3341. | 6.8 | 97 |
| 24 | Wavy SnO2 catalyzed simultaneous reinforcement of carbon dioxide adsorption and activation towards electrochemical conversion of CO2 to HCOOH. Applied Catalysis B: Environmental, 2020, 261, 118243. | 20.2 | 97 |
| 25 | Double-Layered Perovskite Anode with in Situ Exsolution of a Coâ€“Fe Alloy To Cogenerate Ethylene and Electricity in a Proton-Conducting Ethane Fuel Cell. ACS Catalysis, 2016, 6, 760-768. | 11.2 | 95 |
| 26 | Anodeâ€Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility. Advanced Materials, 2016, 28, 8922-8926. | 21.0 | 94 |
| 27 | Stabilizing Double Perovskite for Effective Bifunctional Oxygen Electrocatalysis in Alkaline Conditions. Chemistry of Materials, 2017, 29, 6228-6237. | 6.7 | 94 |
| 28 | Constructing multifunctional â€˜Nanoplatelet-on-Nanoarrayâ€™ electrocatalyst with unprecedented activity towards novel selective organic oxidation reactions to boost hydrogen production. Applied Catalysis B: Environmental, 2020, 278, 119339. | 20.2 | 93 |
| 29 | In situ grown cobalt phosphide (CoP) on perovskite nanofibers as an optimized trifunctional electrocatalyst for Znâ€“air batteries and overall water splitting. Journal of Materials Chemistry A, 2019, 7, 26607-26617. | 10.3 | 92 |
| 30 | In Situ Exsolved Metal Nanoparticles: A Smart Approach for Optimization of Catalysts. Chemistry of Materials, 2020, 32, 5424-5441. | 6.7 | 89 |
| 31 | Valueâ€Added Formate Production from Selective Methanol Oxidation as Anodic Reaction to Enhance Electrochemical Hydrogen Cogeneration. ChemSusChem, 2020, 13, 914-921. | 6.8 | 87 |
| 32 | Pr<sub>2</sub>BaNiMnO<sub>7â^Î´</sub> double-layered Ruddlesdenâ€“Popper perovskite oxides as efficient cathode electrocatalysts for low temperature proton conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 7704-7712. | 10.3 | 84 |
| 33 | Hollow NiSe Nanocrystals Heterogenized with Carbon Nanotubes for Efficient Electrocatalytic Methanol Upgrading to Boost Hydrogen Coâ€Production. Advanced Functional Materials, 2021, 31, 2008812. | 14.9 | 84 |
| 34 | Co P@NiCo-LDH heteronanosheet arrays as efficient bifunctional electrocatalysts for co-generation of value-added formate and hydrogen with less-energy consumption. Journal of Energy Chemistry, 2020, 50, 314-323. | 12.9 | 83 |
| 35 | A strongly cooperative spinel nanohybrid as an efficient bifunctional oxygen electrocatalyst for oxygen reduction reaction and oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 236, 413-419. | 20.2 | 82 |
| 36 | A mechanistic study on thiosulfate-enhanced passivity degradation of Alloy 800 in chloride solutions. Electrochimica Acta, 2013, 111, 510-525. | 5.2 | 81 |

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|---|---|---|---|
| 37 | Unraveling Structure Sensitivity in CO<sub>2</sub> Electroreduction to Near-Unity CO on Silver Nanocubes. ACS Catalysis, 2020, 10, 3158-3163. | 11.2 | 80 |
| 38 | Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO<sub>2</sub> Electroreduction to Formate. ACS Catalysis, 2021, 11, 7604-7612. | 11.2 | 80 |
| 39 | The excellence of La(Sr)Fe(Ni)O<sub>3</sub> as an active and efficient cathode for direct CO<sub>2</sub> electrochemical reduction at elevated temperatures. Journal of Materials Chemistry A, 2017, 5, 2673-2680. | 10.3 | 78 |
| 40 | Reviewâ€"Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. Journal of the Electrochemical Society, 2020, 167, 081507. | 2.9 | 78 |
| 41 | Rational Design of Silver Sulfide Nanowires for Efficient CO<sub>2</sub> Electroreduction in Ionic Liquid. ACS Catalysis, 2018, 8, 1469-1475. | 11.2 | 76 |
| 42 | CO2-emission-free electrocatalytic CH3OH selective upgrading with high productivity at large current densities for energy saved hydrogen co-generation. Nano Energy, 2021, 80, 105530. | 16.0 | 76 |
| 43 | Bifunctional Catalyst of Coreâ€"Shell Nanoparticles Socketed on Oxygen-Deficient Layered Perovskite for Soot Combustion: In Situ Observation of Synergistic Dual Active Sites. ACS Catalysis, 2016, 6, 2710-2714. | 11.2 | 70 |
| 44 | Correlation of Fuel Cell Anode Electrocatalytic and ex situ Catalytic Activity of Perovskites La<sub>0.75</sub>Sr<sub>0.25</sub>Cr<sub>0.5</sub>X<sub>0.5</sub>O<sub>3â^'Î´</sub> (X = Ti, Mn, Fe,) Tj ET Q q 0 0 0 rg BT /Ove | 6.7 | 68 |
| 45 | Effects of hydrogen and stress on the electrochemical and passivation behaviour of 304 stainless steel in simulated PEMFC environment. Electrochimica Acta, 2019, 293, 60-77. | 5.2 | 68 |
| 46 | Reducing d-p band coupling to enhance CO2 electrocatalytic activity by Mg-doping in Sr2FeMoO6-Î´ double perovskite for high performance solid oxide electrolysis cells. Nano Energy, 2021, 82, 105707. | 16.0 | 67 |
| 47 | Bifunctional Ptâ€"Co<sub>3</sub>O<sub>4</sub> electrocatalysts for simultaneous generation of hydrogen and formate via energy-saving alkaline seawater/methanol co-electrolysis. Journal of Materials Chemistry A, 2021, 9, 6316-6324. | 10.3 | 65 |
| 48 | Unraveling the effects of CO2 and H2S on the corrosion behavior of electroless Ni-P coating in CO2/H2S/Clâ€" environments at high temperature and high pressure. Corrosion Science, 2019, 148, 317-330. | 6.6 | 63 |
| 49 | Y-doped BaCeO3â^'Î´ nanopowders as proton-conducting electrolyte materials for ethane fuel cells to co-generate ethylene and electricity. Journal of Power Sources, 2010, 195, 2659-2663. | 7.8 | 62 |
| 50 | Hierarchically assembling cobalt/nickel carbonate hydroxide on copper nitride nanowires for highly efficient water splitting. Applied Catalysis B: Environmental, 2021, 292, 120148. | 20.2 | 62 |
| 51 | Ultrasmall Bi nanoparticles confined in carbon nanosheets as highly active and durable catalysts for CO2 electroreduction. Applied Catalysis B: Environmental, 2021, 284, 119723. | 20.2 | 61 |
| 52 | A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. Nano Energy, 2017, 38, 392-400. | 16.0 | 60 |
| 53 | Cogeneration of ethylene and energy in protonic fuel cell with an efficient and stable anode anchored with in-situ exsolved functional metal nanoparticles. Applied Catalysis B: Environmental, 2018, 220, 283-289. | 20.2 | 60 |
| 54 | Constructing novel cross-linked polybenzimidazole network for high-performance high-temperature proton exchange membrane. Journal of Membrane Science, 2022, 643, 120037. | 8.2 | 60 |

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|---|---|---|---|
| 55 | A study on corrosion behaviors of Niâ€“Crâ€“Mo laser coating, 316 stainless steel and X70 steel in simulated solutions with H2S and CO2. Surface and Coatings Technology, 2016, 291, 250-257. | 4.8 | 57 |
| 56 | Developing hierarchically porous MnO<sub>x</sub>/NC hybrid nanorods for oxygen reduction and evolution catalysis. Green Chemistry, 2017, 19, 2793-2797. | 9.0 | 57 |
| 57 | Effect of defect on corrosion behavior of electroless Ni-P coating in CO2-saturated NaCl solution. Corrosion Science, 2018, 134, 23-37. | 6.6 | 57 |
| 58 | Carbon nanofibers@NiSe core/sheath nanostructures as efficient electrocatalysts for integrating highly selective methanol conversion and less-energy intensive hydrogen production. Journal of Materials Chemistry A, 2019, 7, 25878-25886. | 10.3 | 57 |
| 59 | CO2 dry reforming of CH4 with Sr and Ni co-doped LaCrO3 perovskite catalysts. Applied Surface Science, 2020, 506, 144699. | 6.1 | 57 |
| 60 | Cobalt doped LaSrTiO3â^Î´ as an anode catalyst: effect of Co nanoparticle precipitation on SOFCs operating on H2S-containing hydrogen. Journal of Materials Chemistry A, 2013, 1, 9689. | 10.3 | 56 |
| 61 | Carbon-tolerant Ni-based cermet anodes modified by proton conducting yttrium- and ytterbium-doped barium cerates for direct methane solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 21609-21617. | 10.3 | 56 |
| 62 | A facile surface chemistry approach to bifunctional excellence for perovskite electrocatalysis. Nano Energy, 2018, 49, 117-125. | 16.0 | 55 |
| 63 | Corrosion and wear resistance of chrome white ironsâ€”A correlation to their composition and microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 3029-3038. | 2.2 | 54 |
| 64 | Enhancing Sulfur Tolerance of Ni-Based Cermet Anodes of Solid Oxide Fuel Cells by Ytterbium-Doped Barium Cerate Infiltration. ACS Applied Materials & Interfaces, 2016, 8, 10293-10301. | 8.0 | 54 |
| 65 | Interfaceâ€Induced Electrocatalytic Enhancement of CO<sub>2</sub>â€toâ€Formate Conversion on Heterostructured Bismuthâ€Based Catalysts. Small, 2022, 18, e2105682. | 10.0 | 53 |
| 66 | Smart utilization of cobaltite-based double perovskite cathodes on barrier-layer-free zirconia electrolyte of solid oxide fuel cells. Journal of Materials Chemistry A, 2016, 4, 19019-19025. | 10.3 | 51 |
| 67 | Hexagonal Zn Nanoplates Enclosed by Zn(100) and Zn(002) Facets for Highly Selective CO<sub>2</sub> Electroreduction to CO. ACS Applied Materials & Interfaces, 2020, 12, 31431-31438. | 8.0 | 51 |
| 68 | Interfacial engineering of Cu2Se/Co3Se4 multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. Applied Catalysis B: Environmental, 2021, 285, 119800. | 20.2 | 51 |
| 69 | Constructing stable continuous proton transport channels by in-situ preparation of covalent triazine-based frameworks in phosphoric acid-doped polybenzimidazole for high-temperature proton exchange membranes. Journal of Membrane Science, 2021, 640, 119775. | 8.2 | 51 |
| 70 | Tuning adsorption strength of CO2 and its intermediates on tin oxide-based electrocatalyst for efficient CO2 reduction towards carbonaceous products. Applied Catalysis B: Environmental, 2020, 277, 119252. | 20.2 | 50 |
| 71 | Phosphoric acid-doped polybenzimidazole with a leaf-like three-layer porous structure as a high-temperature proton exchange membrane for fuel cells. Journal of Materials Chemistry A, 2021, 9, 26345-26353. | 10.3 | 50 |
| 72 | Ethane dehydrogenation over nano-Cr2O3 anode catalyst in proton ceramic fuel cell reactors to co-produce ethylene and electricity. Journal of Power Sources, 2011, 196, 1036-1041. | 7.8 | 49 |

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|---|---|---|---|
| 73 | A-site deficient chromite perovskite with in situ exsolution of nano-Fe: a promising bi-functional catalyst bridging the growth of CNTs and SOFCs. Journal of Materials Chemistry A, 2015, 3, 14625-14630. | 10.3 | 49 |
| 74 | Phase-field model of pitting corrosion kinetics in metallic materials. Npj Computational Materials, 2018, 4, . | 8.7 | 49 |
| 75 | Bi<sub>2</sub>O<sub>3</sub> Nanosheets Grown on Carbon Nanofiber with Inherent Hydrophobicity for High-Performance CO<sub>2</sub> Electroreduction in a Wide Potential Window. ACS Nano, 2021, 15, 17757-17768. | 14.6 | 47 |
| 76 | The evolution of hierarchical porosity in self-templated nitrogen-doped carbons and its effect on oxygen reduction electrocatalysis. RSC Advances, 2016, 6, 80398-80407. | 3.6 | 46 |
| 77 | Electrochemical Transformation of Facetâ€Controlled BiOI into Mesoporous Bismuth Nanosheets for Selective Electrocatalytic Reduction of CO<sub>2</sub> to Formic Acid. ChemSusChem, 2019, 12, 4700-4707. | 6.8 | 46 |
| 78 | Modeling the effect of insoluble corrosion products on pitting corrosion kinetics of metals. Npj Materials Degradation, 2019, 3, . | 5.8 | 46 |
| 79 | Î³-MnO2 nanorod-assembled hierarchical micro-spheres with oxygen vacancies to enhance electrocatalytic performance toward the oxygen reduction reaction for aluminum-air batteries. Journal of Energy Chemistry, 2020, 51, 81-89. | 12.9 | 45 |
| 80 | Nanotubular surface modification of metallic implants via electrochemical anodization technique. International Journal of Nanomedicine, 2014, 9, 4421. | 6.7 | 43 |
| 81 | Toward Excellence of Electrocatalyst Design by Emerging Descriptorâ€Oriented Machine Learning. Advanced Functional Materials, 2022, 32, . | 14.9 | 43 |
| 82 | An ingenious Ni/Ce co-doped titanate based perovskite as a coking-tolerant anode material for direct hydrocarbon solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 22830-22838. | 10.3 | 42 |
| 83 | Fabrication and characterization of a tubular ceramic fuel cell based on BaZr0.1Ce0.7Y0.1Yb0.1O3-Î´ proton conducting electrolyte. Journal of Power Sources, 2017, 341, 264-269. | 7.8 | 42 |
| 84 | Reviewâ€"Factors Influencing Sulfur Induced Corrosion on the Secondary Side in Pressurized Water Reactors (PWRs). Journal of the Electrochemical Society, 2019, 166, C49-C64. | 2.9 | 42 |
| 85 | Descriptor of catalytic activity of metal sulfides for oxygen reduction reaction: a potential indicator for mineral flotation. Journal of Materials Chemistry A, 2018, 6, 9650-9656. | 10.3 | 41 |
| 86 | Electrolyte Driven Highly Selective CO<sub>2</sub> Electroreduction at Low Overpotentials. ACS Catalysis, 2019, 9, 10440-10447. | 11.2 | 41 |
| 87 | Sensing corrosion within an artificial defect in organic coating using SECM. Sensors and Actuators B: Chemical, 2019, 280, 235-242. | 7.8 | 41 |
| 88 | Metal-support interaction enhanced electrochemical reduction of CO2 to formate between graphene and Bi nanoparticles. Journal of CO2 Utilization, 2020, 37, 353-359. | 6.8 | 41 |
| 89 | UnravelingÂthe Enhanced Kinetics of Sr<sub>2</sub>Fe<sub>1+</sub><sub>x</sub>Mo<sub>1â€</sub><sub>x</sub>O<sub>6â€Î´</sub> Electrocatalysts for Highâ€Performance Solid Oxide Cells. Advanced Energy Materials, 2021, 11, 2102845. | 29.5 | 41 |
| 90 | Sulfur-Tolerant Anode Catalyst for Solid Oxide Fuel Cells Operating on H2S-Containing Syngas. Chemistry of Materials, 2010, 22, 1032-1037. | 6.7 | 40 |

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|---|---|---|---|
| 91 | Hollow Porous Ag Spherical Catalysts for Highly Efficient and Selective Electrocatalytic Reduction of CO<sub>2</sub> to CO. ACS Sustainable Chemistry and Engineering, 2019, 7, 14443-14450. | 6.7 | 40 |
| 92 | Toward a rational photocatalyst design: a new formation strategy of co-catalyst/semiconductor heterostructures via in situ exsolution. Chemical Communications, 2018, 54, 1505-1508. | 4.1 | 39 |
| 93 | Gum Arabic as corrosion inhibitor in the oil industry: experimental and theoretical studies. Corrosion Engineering Science and Technology, 2019, 54, 444-454. | 1.4 | 39 |
| 94 | A High-Performance Ruddlesdenâ€“Popper Perovskite for Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2020, 10, 13437-13444. | 11.2 | 39 |
| 95 | Folic acid self-assembly synthesis of ultrathin N-doped carbon nanosheets with single-atom metal catalysts. Energy Storage Materials, 2021, 36, 409-416. | 18.0 | 39 |
| 96 | Folic Acid Self-Assembly Enabling Manganese Single-Atom Electrocatalyst for Selective Nitrogen Reduction to Ammonia. Nano-Micro Letters, 2021, 13, 125. | 27.0 | 39 |
| 97 | La0.5Sr0.5Fe0.9Mo0.1O3-Î´-CeO2 anode catalyst for Co-Producing electricity and ethylene from ethane in proton-conducting solid oxide fuel cells. Ceramics International, 2021, 47, 24106-24114. | 4.8 | 39 |
| 98 | pH Effect on Sulfur-Induced Passivity Degradation of Alloy 800 in Simulated Crevice Chemistries. Journal of the Electrochemical Society, 2014, 161, C201-C214. | 2.9 | 38 |
| 99 | Facile Preparation of Self-Standing Hierarchical Porous Nitrogen-Doped Carbon Fibers for Supercapacitors from Plant Proteinâ€“Lignin Electrospun Fibers. ACS Omega, 2018, 3, 4647-4656. | 3.5 | 38 |
| 100 | A-site deficient perovskite with nano-socketed Ni-Fe alloy particles as highly active and durable catalyst for high-temperature CO2 electrolysis. Electrochimica Acta, 2020, 335, 135683. | 5.2 | 38 |
| 101 | All roads lead to Rome: An energy-saving integrated electrocatalytic CO2 reduction system for concurrent value-added formate production. Chemical Engineering Journal, 2021, 412, 127893. | 12.7 | 38 |
| 102 | Combating marine corrosion on engineered oxide surface by repelling, blocking and capturing Clâ¯: A mini review. Corrosion Communications, 2021, 2, 1-7. | 6.0 | 38 |
| 103 | Performance of Ethane/Oxygen Fuel Cells Using Yttrium-Doped Barium Cerate as Electrolyte at Intermediate Temperatures. Journal of Physical Chemistry C, 2007, 111, 5069-5074. | 3.1 | 37 |
| 104 | Alternative Fuel Cell Technologies for Cogenerating Electrical Power and Syngas from Greenhouse Gases. ACS Energy Letters, 2017, 2, 1789-1796. | 17.4 | 37 |
| 105 | Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO2 composite coating. Materials Today Physics, 2018, 4, 36-42. | 6.0 | 37 |
| 106 | Achieving ultrahigh corrosion resistance and conductive zirconium oxynitride coating on metal bipolar plates by plasma enhanced atomic layer deposition. Journal of Power Sources, 2018, 397, 32-36. | 7.8 | 37 |
| 107 | Multi-functionalities enabled fivefold applications of LaCo0.6Ni0.4O3â¯Î´ in intermediate temperature symmetrical solid oxide fuel/electrolysis cells. Nano Energy, 2020, 77, 105207. | 16.0 | 37 |
| 108 | Carbon Dioxide Valorization via Formate Electrosynthesis in a Wide Potential Window. Advanced Functional Materials, 2022, 32, . | 14.9 | 37 |

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|---|---|---|---|
| 109 | Sulfur induced corrosion (SIC) mechanism of steam generator (SG) tubing at micro scale: A critical review. Materials Chemistry and Physics, 2019, 233, 133-140. | 4.0 | 36 |
| 110 | Efficient bifunctional electrocatalysts for solid oxide cells based on the structural evolution of perovskites with abundant defects and exsolved CoFe nanoparticles. Journal of Power Sources, 2021, 482, 228981. | 7.8 | 36 |
| 111 | Ca-containing Ba0Â·95Ca0Â·05Co0Â·4Fe0Â·4Zr0Â·1Y0Â·1O3-Î´ cathode with high CO2-poisoning tolerance for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 453, 227909. | 7.8 | 35 |
| 112 | Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO2 electroreduction towards CH4. Nano Energy, 2020, 73, 104833. | 16.0 | 35 |
| 113 | Electrochemical exfoliation from an industrial ingot: ultrathin metallic bismuth nanosheets for excellent CO<sub>2</sub> capture and electrocatalytic conversion. Nanoscale, 2019, 11, 22125-22133. | 5.6 | 34 |
| 114 | Protonic membrane for fuel cell for co-generation of power and ethylene. Journal of Power Sources, 2008, 176, 122-127. | 7.8 | 31 |
| 115 | An integral proton conducting SOFC for simultaneous production of ethylene and power from ethane. Chemical Communications, 2010, 46, 2052. | 4.1 | 31 |
| 116 | Understanding the interaction of thiosulfate with Alloy 800 in aqueous chloride solutions using SECM. Journal of Electroanalytical Chemistry, 2015, 744, 77-84. | 3.8 | 31 |
| 117 | Microwave-assisted hydrothermal synthesis of MOFs-derived bimetallic CuCo-N/C electrocatalyst for efficient oxygen reduction reaction. Journal of Alloys and Compounds, 2019, 795, 462-470. | 5.5 | 31 |
| 118 | Enhancing through-plane electrical conductivity by introducing Au microdots onto TiN coated metal bipolar plates of PEMFCs. International Journal of Hydrogen Energy, 2020, 45, 29442-29448. | 7.1 | 31 |
| 119 | In situ embedding of CoFe nanocatalysts into Sr3FeMoO7 matrix as high-performance anode materials for solid oxide fuel cells. Journal of Power Sources, 2020, 459, 228071. | 7.8 | 31 |
| 120 | Constructing proton transport channels in low phosphoric-acid doped polybenzimidazole membrane by introducing metalâ€“organic frameworks containing phosphoric-acid groups. Journal of Power Sources, 2021, 507, 230316. | 7.8 | 31 |
| 121 | Semiconductivity conversion of Alloy 800 in sulphate, thiosulphate, and chloride solutions. Corrosion Science, 2014, 87, 265-277. | 6.6 | 30 |
| 122 | Biogas to syngas: flexible on-cell micro-reformer and NiSn bimetallic nanoparticle implanted solid oxide fuel cells for efficient energy conversion. Journal of Materials Chemistry A, 2016, 4, 4603-4609. | 10.3 | 30 |
| 123 | Carbon-resistant Ni-Zr0.92Y0.08O2-Î´ supported solid oxide fuel cells using Ni-Cu-Fe alloy cermet as on-cell reforming catalyst and mixed methane-steam as fuel. Journal of Power Sources, 2016, 303, 340-346. | 7.8 | 30 |
| 124 | In situ construction of hetero-structured perovskite composites with exsolved Fe and Cu metallic nanoparticles as efficient CO<sub>2</sub> reduction electrocatalysts for high performance solid oxide electrolysis cells. Journal of Materials Chemistry A, 2022, 10, 2509-2518. | 10.3 | 30 |
| 125 | Achieving Efficient CO<sub>2</sub> Electrochemical Reduction on Tunable In(OH)<sub>3</sub>-Coupled Cu<sub>2</sub>O-Derived Hybrid Catalysts. ACS Applied Materials & Interfaces, 2019, 11, 22346-22351. | 8.0 | 28 |
| 126 | A mechanistic study on sulfur-induced passivity degradation on Alloy 800 in simulated alkaline crevice chemistries at temperatures ranging from 21 Â°C to 300 Â°C. Corrosion Science, 2015, 100, 504-516. | 6.6 | 27 |

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|---|---|---|---|
| 127 | Facile Synthesis of Highly Active and Robust Niâ€“Mo Bimetallic Electrocatalyst for Hydrocarbon Oxidation in Solid Oxide Fuel Cells. ACS Energy Letters, 2016, 1, 225-230. | 17.4 | 27 |
| 128 | Grafting doped manganite into nickel anode enables efficient and durable energy conversions in biogas solid oxide fuel cells. Applied Catalysis B: Environmental, 2017, 200, 174-181. | 20.2 | 27 |
| 129 | Insights into the Interfacial Process in Electroless Niâ€“P Coating on Supercritical CO<sub>2</sub>Transport Pipeline as Relevant to Carbon Capture and Storage. ACS Applied Materials & Interfaces, 2019, 11, 16243-16251. | 8.0 | 27 |
| 130 | Exploring Ni(Mn<sub>1/3</sub>Cr<sub>2/3</sub>)<sub>2</sub>O<sub>4</sub> spinel-based electrodes for solid oxide cells. Journal of Materials Chemistry A, 2020, 8, 3988-3998. | 10.3 | 27 |
| 131 | High-Temperature Electrochemical Devices Based on Dense Ceramic Membranes for CO2 Conversion and Utilization. Electrochemical Energy Reviews, 2021, 4, 518-544. | 25.5 | 27 |
| 132 | Silverâ€coated copper nanowires with improved antiâ€oxidation property as conductive fillers in lowâ€density polyethylene. Canadian Journal of Chemical Engineering, 2013, 91, 630-637. | 1.7 | 26 |
| 133 | Developing a Thermal- and Coking-Resistant Cobaltâ€“Tungsten Bimetallic Anode Catalyst for Solid Oxide Fuel Cells. ACS Catalysis, 2016, 6, 4630-4634. | 11.2 | 26 |
| 134 | Toward highly efficient in situ dry reforming of H<sub>2</sub>S contaminated methane in solid oxide fuel cells via incorporating a coke/sulfur resistant bimetallic catalyst layer. Journal of Materials Chemistry A, 2016, 4, 9080-9087. | 10.3 | 26 |
| 135 | Understanding the Roles of Electrogenerated Co<sup>3+</sup> and Co<sup>4+</sup> in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie, 2021, 133, 20698-20705. | 2.0 | 25 |
| 136 | Fabrication of bi-layered proton conducting membrane for hydrocarbon solid oxide fuel cell reactors. Electrochimica Acta, 2010, 55, 1145-1149. | 5.2 | 24 |
| 137 | Corrosion Mechanisms and Materials Selection for the Construction of Flue Gas Component in Advanced Heat and Power Systems. Industrial & Engineering Chemistry Research, 2017, 56, 14141-14154. | 3.7 | 24 |
| 138 | Electrochemical oxidation of sour natural gas over La0.4Ce0.6O1.8â€“La0.4Sr0.6TiO3Â±Î´ anode in SOFC: A mechanism study of H2S effects. Applied Catalysis B: Environmental, 2015, 176-177, 627-636. | 20.2 | 23 |
| 139 | Co<sub>2</sub>CrO<sub>4</sub> Nanopowders as an Anode Catalyst for Simultaneous Conversion of Ethane to Ethylene and Power in Proton-Conducting Fuel Cell Reactors. Journal of Physical Chemistry C, 2018, 122, 4165-4171. | 3.1 | 23 |
| 140 | Investigation on the flow-induced corrosion and degradation behavior of underground J55 pipe in a water production well in the Athabasca oil sands reservoir. Journal of Petroleum Science and Engineering, 2019, 182, 106325. | 4.2 | 23 |
| 141 | Characterization and corrosion behavior of electroless Ni-Mo-P/Ni-P composite coating in CO2/H2S/Clâ» brine: Effects of Mo addition and heat treatment. Surface and Coatings Technology, 2020, 403, 126416. | 4.8 | 23 |
| 142 | Insights into the erosion-enhanced corrosion on electroless Niâ€“P coating from single particle impingement. Corrosion Science, 2020, 166, 108422. | 6.6 | 22 |
| 143 | Cogeneration of ethylene and electricity in symmetrical protonic solid oxide fuel cells based on a La<sub>0.6</sub>Sr<sub>0.4</sub>Fe<sub>0.8</sub>Nb<sub>0.1</sub>Cu<sub>0.1</sub>O<sub>3â»Î´</sub> electrode. Journal of Materials Chemistry A, 2020, 8, 25978-25985. | 10.3 | 22 |
| 144 | Strengthening absorption ability of Coâ€“Nâ€“C as efficient bifunctional oxygen catalyst by modulating the d band center using MoC. Green Energy and Environment, 2023, 8, 459-469. | 8.7 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Semiconductivity Conversion of Passive Films on Alloy 800 in Chloride Solutions Containing Various Concentrations of Thiosulfate. Journal of the Electrochemical Society, 2015, 162, C482-C486. | 2.9 | 21 |
| 146 | High Performance Tubular Solid Oxide Fuel Cell Based on Ba<sub>0.5</sub>Sr<sub>0.5</sub>Ce<sub>0.6</sub>Zr<sub>0.2</sub>Gd<sub>0.1</sub>Y<sub>0.1</sub>O<sub>3-Î´</sub>Proton Conducting Electrolyte. Journal of the Electrochemical Society, 2018, 165, F764-F769. | 3.9 | 21 |
| 147 | Thermally stable and coking resistant CoMo alloy-based catalysts as fuel electrodes for solid oxide electrochemical cells. Journal of Materials Chemistry A, 2018, 6, 15377-15385. | 10.3 | 21 |
| 148 | Electrolysis of waste water containing aniline to produce polyaniline and hydrogen with low energy consumption. International Journal of Hydrogen Energy, 2020, 45, 22419-22426. | 7.1 | 21 |
| 149 | Corrosion of SS310 and Alloy 740 in high temperature supercritical CO2 with impurities H2O and O2. Corrosion Science, 2021, 184, 109350. | 6.6 | 21 |
| 150 | NiFe P@NiCo-LDH nanoarray bifunctional electrocatalysts for coupling of methanol oxidation and hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 17150-17160. | 7.1 | 21 |
| 151 | Regulating the Electron Localization of Metallic Bismuth for Boosting CO2 Electroreduction. Nano-Micro Letters, 2022, 14, 38. | 27.0 | 21 |
| 152 | Minimum and well-dispersed platinum nanoparticles on 3D porous nickel for highly efficient electrocatalytic hydrogen evolution reaction enabled by atomic layer deposition. Applied Surface Science, 2019, 494, 1091-1099. | 6.1 | 20 |
| 153 | Influence of H2S on the general corrosion and sulfide stress cracking of pipelines steels for supercritical CO2 transportation. Corrosion Science, 2021, 190, 109639. | 6.6 | 20 |
| 154 | Zr<sub>2</sub>N<sub>2</sub>O Coating-Improved Corrosion Resistance for the Anodic Dissolution Induced by Cathodic Transient Potential. ACS Applied Materials & Interfaces, 2018, 10, 40111-40124. | 8.0 | 19 |
| 155 | Unlocking the impurity-induced pipeline corrosion based on phase behavior of impure CO2 streams. Corrosion Science, 2020, 165, 108367. | 6.6 | 19 |
| 156 | LaCrO3â^'VOxâ^'YSZ Anode Catalyst for Solid Oxide Fuel Cell Using Impure Hydrogen. Journal of Physical Chemistry C, 2007, 111, 16679-16685. | 3.1 | 18 |
| 157 | Passivity degradation of alloy 800 in simulated crevice chemistries. Transactions of Tianjin University, 2015, 21, 234-243. | 6.4 | 18 |
| 158 | Standalone Solar Carbon-Based Fuel Production Based on Semiconductors. Cell Reports Physical Science, 2020, 1, 100101. | 5.6 | 18 |
| 159 | Novel folic acid complex derived nitrogen and nickel co-doped carbon nanotubes with embedded Ni nanoparticles as efficient electrocatalysts for CO<sub>2</sub> reduction. Journal of Materials Chemistry A, 2020, 8, 5105-5114. | 10.3 | 18 |
| 160 | Co- and N-doped carbon nanotubes with hierarchical pores derived from metalâ€"organic nanotubes for oxygen reduction reaction. Journal of Energy Chemistry, 2021, 53, 49-55. | 12.9 | 18 |
| 161 | Microfabrication of the Ammonia Plasma-Activated Nickel Nitrideâ€"Nickel Thin Film for Overall Water Splitting in the Microfluidic Membraneless Electrolyzer. ACS Applied Energy Materials, 2021, 4, 9639-9652. | 5.1 | 18 |
| 162 | Directionally maximizing CO selectivity to near-unity over cupric oxide with indium species for electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 427, 131654. | 12.7 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Insights into the Electrochemical Corrosion Behavior and Mechanism of Electroless Ni-P Coating in the CO2/H2S/Clâ¯ Environment. Corrosion, 2020, 76, 578-590. | 1.1 | 18 |
| 164 | Near-Neutral pH Stress Corrosion Cracking Susceptibility of Plastically Prestrained X70 Steel Weldment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2538-2547. | 2.2 | 17 |
| 165 | In-situ exsolved FeNi nanoparticles on perovskite matrix anode for co-production of ethylene and power from ethane in proton conducting fuel cells. Electrochimica Acta, 2021, 393, 139096. | 5.2 | 17 |
| 166 | Accelerating photoelectric CO2 conversion with a photothermal wavelength-dependent plasmonic local field. Applied Catalysis B: Environmental, 2021, 298, 120533. | 20.2 | 17 |
| 167 | Densely packed ultrafine SnO2 nanoparticles grown on carbon cloth for selective CO2 reduction to formate. Journal of Energy Chemistry, 2022, 71, 159-166. | 12.9 | 17 |
| 168 | Effect of substitution of B-sites by Mn, Fe and Co in double perovskite-type Ba3CaNb2O9 on structure and electrical properties. RSC Advances, 2013, 3, 23824. | 3.6 | 16 |
| 169 | Exploring MnCr2O4â€“Gd0.1Ce0.9O2-Î´ as a composite electrode material for solid oxide fuel cell. International Journal of Hydrogen Energy, 2019, 44, 31333-31341. | 7.1 | 16 |
| 170 | Energyâ€saving H<sub>2</sub> Generation Coupled with Oxidative Alcohol Refining over Bimetallic Phosphide Ni<sub>2</sub>Pâ¯CoP Junction Bifunctional Electrocatalysts. ChemSusChem, 2021, 14, 5450-5459. | 6.8 | 16 |
| 171 | Generating C4 Alkenes in Solid Oxide Fuel Cells via Cofeeding H<sub>2</sub> and n-Butane Using a Selective Anode Electrocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 16209-16215. | 8.0 | 15 |
| 172 | CO2 emission free co-generation of energy and ethylene in hydrocarbon SOFC reactors with a dehydrogenation anode. Physical Chemistry Chemical Physics, 2011, 13, 19615. | 2.8 | 14 |
| 173 | Highly cost-effective and sulfur/coking resistant VO<sub>x</sub>-grafted TiO<sub>2</sub> nanoparticles as an efficient anode catalyst for direct conversion of dry sour methane in solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 23973-23980. | 10.3 | 14 |
| 174 | The surface evolution of La0.4Sr0.6TiO3+Î´ anode in solid oxide fuel cells: Understanding the sulfur-promotion effect. Journal of Power Sources, 2017, 343, 127-134. | 7.8 | 14 |
| 175 | Multiple-doped barium cerate proton-conducting electrolytes for chemical-energy cogeneration in solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 19704-19710. | 7.1 | 14 |
| 176 | Coreâ€“Shell Structured Cu(OH)<sub>2</sub>@NiFe(OH)<sub>x</sub> Nanotube Electrocatalysts for Methanol Oxidation Based Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 8723-8732. | 5.0 | 14 |
| 177 | Electrochemically reconstructed perovskite with cooperative catalytic sites for CO2-to-formate conversion. Applied Catalysis B: Environmental, 2022, 306, 121101. | 20.2 | 14 |
| 178 | 1â€D dynamic modeling of SOFC with analytical solution for reacting gasâ€flow problem. AICHE Journal, 2008, 54, 1537-1553. | 3.6 | 13 |
| 179 | A mechanistic study of sulfur-induced passivity degradation of Alloy 800 in a simulated alkaline crevice environment at 300 Â°C. Journal of Solid State Electrochemistry, 2015, 19, 3567-3578. | 2.5 | 13 |
| 180 | Oxygen Evolution Reaction: Coreâ€“Shell Structured NiFeSn@NiFe (Oxy)Hydroxide Nanospheres from an Electrochemical Strategy for Electrocatalytic Oxygen Evolution Reaction (Adv. Sci. 10/2020). Advanced Science, 2020, 7, 2070052. | 11.2 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Understanding the immobilization mechanisms of hazardous heavy metal ions in the cage of sodalite at molecular level: A DFT study. Microporous and Mesoporous Materials, 2020, 306, 110409. | 4.4 | 13 |
| 182 | Amorphous cobalt hydroxysulfide nanosheets with regulated electronic structure for high-performance electrochemical energy storage. Science China Materials, 2020, 63, 2303-2313. | 6.3 | 13 |
| 183 | Hydrogen generation and utilization in a two-phase flow membraneless microfluidic electrolyzer-fuel cell tandem operation for micropower application. Applied Energy, 2022, 305, 117945. | 10.1 | 13 |
| 184 | Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickelâ€"Phosphorus Coating. Langmuir, 2020, 36, 897-905. | 3.5 | 12 |
| 185 | Role of Ca2+ in the CO2 corrosion behavior and film characteristics of N80 steel and electroless Niâ€"P coating at high temperature and high pressure. Materials Chemistry and Physics, 2021, 267, 124618. | 4.0 | 12 |
| 186 | Electrochemical behavior of CoCrMo implant in Ringer's solution. Surface and Interface Analysis, 2013, 45, 1323-1328. | 1.8 | 11 |
| 187 | Preparation and characterization of an solid oxide fuel cell tubular cellÂfor direct use with sour gas. Journal of Power Sources, 2013, 240, 411-416. | 7.8 | 11 |
| 188 | Improved coking resistance of direct ethanol solid oxide fuel cells with a Niâ€"Sx anode. Journal of Power Sources, 2014, 250, 212-219. | 7.8 | 11 |
| 189 | Promoting Influence of Doping Indium into BaCe<sub>0.5</sub>Zr<sub>0.3</sub>Y<sub>0.2</sub>O<sub>3â€Ť</sub> as Solid Proton Conductor. International Journal of Applied Ceramic Technology, 2015, 12, 1174-1183. | 2.1 | 11 |
| 190 | Fouling mechanisms of asphaltenes and fine solids on bare and electroless nickel-phosphorus coated carbon steel. Fuel, 2019, 252, 188-199. | 6.4 | 11 |
| 191 | Probing the Interaction Mechanism between Oil-in-Water Emulsions and Electroless Nickelâ€"Phosphorus Coating with Implications for Antifouling in Oil Production. Energy & Fuels, 2019, 33, 3764-3775. | 5.1 | 11 |
| 192 | Nanoalloy libraries from laser-induced thermionic emission reduction. Science Advances, 2022, 8, eabm6541. | 10.3 | 11 |
| 193 | Pitting susceptibility of induction-quenched pipeline with microstructural heterogeneity. Journal of Materials Science, 2012, 47, 6823-6834. | 3.7 | 10 |
| 194 | Co-generation of energy and ethylene in hydrocarbon fueled SOFCs with Cr3C2 and WC anode catalysts. Ceramics International, 2014, 40, 11781-11786. | 4.8 | 10 |
| 195 | Hydrogen-enhanced Surface Reactivity of X80 Pipeline Steel observed by Scanning Electrochemical Microscopy. Electrochemistry, 2016, 84, 238-242. | 1.4 | 10 |
| 196 | A bifunctional solid oxide electrolysis cell for simultaneous CO<sub>2</sub> utilization and synthesis gas production. Chemical Communications, 2016, 52, 13687-13690. | 4.1 | 10 |
| 197 | Rational design of CdCO3 nanoparticles decorated carbon nanofibers for boosting electrochemical CO2 reduction. Journal of Power Sources, 2021, 510, 230433. | 7.8 | 10 |
| 198 | Lessâ€Energy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni<sub>3</sub>S<sub>2</sub>/CNT Nanoâ€Heterostructured Electrocatalysts. Small Methods, 2022, 6, e2101195. | 8.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Formation of Hydroxyapatite Coating on Anodic Titanium Dioxide Nanotubes via an Efficient Dipping Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3255-3264. | 2.2 | 9 |
| 200 | Nanoparticles as Anode Catalyst for Ethane Proton Conducting Fuel Cell Reactors to Coproduce Ethylene and Electricity. Advances in Physical Chemistry, 2011, 2011, 1-6. | 2.0 | 9 |
| 201 | â€œRevitalizingâ€•degraded solid oxide fuel cells in sour fuels for bifunctional oxygen catalysis in zincâ€“air batteries. Green Chemistry, 2020, 22, 6075-6083. | 9.0 | 9 |
| 202 | Emerging anode materials architectured with NiCoFe ternary alloy nanoparticles for ethane-fueled protonic ceramic fuel cells. Journal of Power Sources, 2021, 515, 230634. | 7.8 | 9 |
| 203 | In-situ generated hydroxides realize near-unity CO selectivity for electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 433, 133785. | 12.7 | 9 |
| 204 | Bariumâ€doped Sr<sub>2</sub>Fe<sub>1.5</sub>Mo<sub>0.5</sub>O<sub>6â€‹</sub><sub>Î´</sub> perovskite anode materials for protonic ceramic fuel cells for ethane conversion. Journal of the American Ceramic Society, 2022, 105, 3613-3624. | 3.8 | 9 |
| 205 | Interface modification of Ru-CeO2 co-infiltrated SFM electrode and construction of SDC/YSZ bilayer electrolyte for direct CO2 electrolysis. Electrochimica Acta, 2022, 426, 140771. | 5.2 | 9 |
| 206 | Title is missing!. Journal of Materials Science Letters, 2002, 21, 1195-1198. | 0.5 | 8 |
| 207 | Oxidation kinetics of copper nanowires synthesized by AC electrodeposition of copper into porous aluminum oxide templates. Journal of Materials Research, 2012, 27, 1755-1762. | 2.6 | 8 |
| 208 | Transient Potential Induced Anodic Dissolution of 316L Stainless Steel in Sulfuric Acid Solution. Journal of the Electrochemical Society, 2019, 166, C3355-C3363. | 2.9 | 8 |
| 209 | Corrosion performance of candidate boiler tube alloys under advanced pressurized oxy-fuel combustion conditions. Energy, 2021, 215, 119178. | 8.8 | 8 |
| 210 | Monitoring the Diffusion Layer During Passive Film Breakdown on Alloy 800 with Digital Holography. Acta Metallurgica Sinica (English Letters), 2015, 28, 1170-1174. | 2.9 | 7 |
| 211 | Effects of reduced sulfur on passive film properties of steam generator (SG) tubing: an overview. Anti-Corrosion Methods and Materials, 2019, 66, 317-326. | 1.5 | 7 |
| 212 | Stability of C3-C6 carbonium ions inside zeolites: A first principles study. Applied Surface Science, 2020, 503, 144148. | 6.1 | 7 |
| 213 | Perovskite Chromite With In-Situ Assembled Ni-Co Nano-Alloys: A Potential Bifunctional Electrode Catalyst for Solid Oxide Cells. Frontiers in Chemistry, 2020, 8, 595608. | 3.6 | 7 |
| 214 | Characterizing foulants on slotted liner and probing the surface interaction mechanisms in organic media with implication for an antifouling strategy in oil production. Fuel, 2021, 290, 120008. | 6.4 | 7 |
| 215 | Nonlinear state space modeling and simulation of a SOFC fuel cell. , 2006, , . | | 6 |
| 216 | ZnS anchored on porous N, S-codoped carbon as superior oxygen reduction reaction electrocatalysts for Al-air batteries. Journal of Colloid and Interface Science, 2022, 609, 868-877. | 9.4 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Generation of hydrogen accompanied with formate bifunctional NiCo P@NiCo-LDH nanosheet electrocatalyst. Journal of Alloys and Compounds, 2022, 906, 164305. | 5.5 | 6 |
| 218 | Impacts of catalyst, inorganic and organic corrodants on corrosion under batch-mode catalytic biomass hydrothermal liquefaction conversion. Corrosion Science, 2022, 204, 110409. | 6.6 | 6 |
| 219 | An investigation of fuel composition and flowâ€rate effects in a H<sub>2</sub>S fuelled sofc: Experiments and thermodynamic analysis. Canadian Journal of Chemical Engineering, 2012, 90, 1033-1042. | 1.7 | 5 |
| 220 | Lead-induced stress corrosion cracking behavior of mechanically surface-treated alloy 690. Materials Research Letters, 2016, 4, 180-184. | 8.7 | 5 |
| 221 | Influence of Major Operating Parameters (Temperature, Pressure, and Flow Rate) on the Corrosion of Candidate Alloys for the Construction of Hydrothermal Liquefaction Biorefining Reactors. Energy & Fuels, 2022, 36, 3134-3153. | 5.1 | 5 |
| 222 | Au/CeO<sub>2</sub> hollow nanospheres with enhanced catalytic activity for <scp>CO</scp> oxidation. International Journal of Applied Ceramic Technology, 2017, 14, 908-914. | 2.1 | 4 |
| 223 | Tuning the subsurface oxygen of Ag2O-derived Ag nanoparticles to achieve efficient CO2 electroreduction to CO. Electrochimica Acta, 2022, 403, 139656. | 5.2 | 4 |
| 224 | Memory effect and recoverability of passive film degradation of Alloy 800 in simulated crevice chemistry. Nuclear Engineering and Design, 2014, 280, 57-61. | 1.7 | 3 |
| 225 | Corrosion of duplex stainless steel 2205 in hot flue gas environments produced at advanced oxy-fired pressurized fluidized bed combustion plants. International Journal of Greenhouse Gas Control, 2020, 100, 103108. | 4.6 | 3 |
| 226 | Condensed phase corrosion of P91 and DSS 2205 steels at advanced oxygenâ€fired pressurized fluidized bed combustion plants. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 757-771. | 1.5 | 3 |
| 227 | Solid-Liquid Mass Transfer under Flow Boiling Condition. Journal of the Electrochemical Society, 2016, 163, H618-H624. | 2.9 | 2 |
| 228 | Investigation of the Antifouling Mechanism of Electroless Nickelâ€“Phosphorus Coating against Sand and Bitumen. Energy & Fuels, 2019, 33, 6350-6360. | 5.1 | 2 |
| 229 | High ionic conductivity of ultralow yttria concentration yttria-stabilized zirconia thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042405. | 2.1 | 2 |
| 230 | Fuel Cells: Anodeâ€Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility (Adv. Mater. 40/2016). Advanced Materials, 2016, 28, 8921-8921. | 21.0 | 1 |
| 231 | Effect of interaction between two single-particle-impingements on the repassivation behavior of 304 stainless steel in a simulated groundwater. Corrosion Reviews, 2021, 39, 149-164. | 2.0 | 1 |
| 232 | Passivation degradation of Alloy 800 on nucleate boiling surface. Corrosion Engineering Science and Technology, 2017, 52, 391-396. | 1.4 | 1 |
| 233 | Lessâ€Energy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni<sub>3</sub>S<sub>2</sub>/CNT Nanoâ€Heterostructured Electrocatalysts (Small Methods 3/2022). Small Methods, 2022, 6, . | 8.6 | 1 |
| 234 | Shape Effect of Zinc Nanostructures on Electrochemical CO<sub>2</sub> Reduction. ECS Meeting Abstracts, 2020, MA2020-02, 3877-3877. | 0.0 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Fabrication and performance of PEN SOFCs with proton-conducting electrolyte. Frontiers of Chemical Engineering in China, 2007, 1, 40-44. | 0.6 | 0 |
| 236 | Guest editorial-fuel cells. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 1-2. | 1.5 | 0 |
| 237 | Hierarchically Assembling Cobalt/Nickel Carbonate Hydroxide on Copper Nitride Nanowires for Highly Efficient Water Splitting. ECS Meeting Abstracts, 2021, MA2021-02, 1734-1734. | 0.0 | 0 |
| 238 | Electronic Regulation of Bismuth Oxide Via Sulfur Doping for Efficient CO2 Electroreduction to Formate. ECS Meeting Abstracts, 2021, MA2021-02, 824-824. | 0.0 | 0 |
| 239 | Steering the Selectivity of CuO to Near-Unity of CO with Indium Species for CO2 Electroreduction. ECS Meeting Abstracts, 2021, MA2021-02, 825-825. | 0.0 | 0 |
| 240 | Electrochemically Dismantled Perovskite with Cooperative Catalysis for CO2-to-Formate Conversion. ECS Meeting Abstracts, 2021, MA2021-02, 1318-1318. | 0.0 | 0 |
| 241 | Enhanced CO2 Adsorption Capability for Highly Selective Electroreduction of CO2 to Formate. ECS Meeting Abstracts, 2021, MA2021-02, 1740-1740. | 0.0 | 0 |
| 242 | Switchable CO<sub>2</sub> Electroreduction Induced By the Bismuth Moiety with Tunable Local Structures on Graphene. ECS Meeting Abstracts, 2022, MA2022-01, 2090-2090. | 0.0 | 0 |
| 243 | Tailoring a Three-Phase Microenvironment for High-Performance CO<sub>2</sub> Electroreduction. ECS Meeting Abstracts, 2022, MA2022-01, 1770-1770. | 0.0 | 0 |