

Federico Calle-Vallejo

List of Publications by Year in descending order

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116
papers

17,950
citations

28274

55
h-index

20961

115
g-index

126
all docs

126
docs citations

126
times ranked

14447
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Universality in Oxygen Evolution Electrocatalysis on Oxide Surfaces. <i>ChemCatChem</i> , 2011, 3, 1159-1165. | 3.7 | 3,208 |
| 2 | Catalysts and Reaction Pathways for the Electrochemical Reduction of Carbon Dioxide. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4073-4082. | 4.6 | 1,524 |
| 3 | Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels. <i>Nature Energy</i> , 2019, 4, 732-745. | 39.5 | 1,506 |
| 4 | Finding optimal surface sites on heterogeneous catalysts by counting nearest neighbors. <i>Science</i> , 2015, 350, 185-189. | 12.6 | 725 |
| 5 | Theoretical Considerations on the Electroreduction of CO to C ₂ Species on Cu(100) Electrodes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7282-7285. | 13.8 | 677 |
| 6 | Introducing structural sensitivity into adsorption–energy scaling relations by means of coordination numbers. <i>Nature Chemistry</i> , 2015, 7, 403-410. | 13.6 | 600 |
| 7 | Guidelines for the Rational Design of Ni-Based Double Hydroxide Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2015, 5, 5380-5387. | 11.2 | 472 |
| 8 | Density functional studies of functionalized graphitic materials with late transition metals for oxygen reduction reactions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15639. | 2.8 | 454 |
| 9 | Tuning the Activity of Pt(111) for Oxygen Electroreduction by Subsurface Alloying. <i>Journal of the American Chemical Society</i> , 2011, 133, 5485-5491. | 13.7 | 447 |
| 10 | Fast Prediction of Adsorption Properties for Platinum Nanocatalysts with Generalized Coordination Numbers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8316-8319. | 13.8 | 366 |
| 11 | Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3621-3624. | 13.8 | 366 |
| 12 | Identifying active surface phases for metal oxide electrocatalysts: a study of manganese oxide bi-functional catalysts for oxygen reduction and water oxidation catalysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14010. | 2.8 | 332 |
| 13 | Structure- and Potential-Dependent Cation Effects on CO Reduction at Copper Single-Crystal Electrodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 16412-16419. | 13.7 | 289 |
| 14 | Number of outer electrons as descriptor for adsorption processes on transition metals and their oxides. <i>Chemical Science</i> , 2013, 4, 1245. | 7.4 | 273 |
| 15 | MXenes: New Horizons in Catalysis. <i>ACS Catalysis</i> , 2020, 10, 13487-13503. | 11.2 | 239 |
| 16 | Physical and Chemical Nature of the Scaling Relations between Adsorption Energies of Atoms on Metal Surfaces. <i>Physical Review Letters</i> , 2012, 108, 116103. | 7.8 | 233 |
| 17 | Electrochemical water splitting by gold: evidence for an oxide decomposition mechanism. <i>Chemical Science</i> , 2013, 4, 2334. | 7.4 | 229 |
| 18 | Na-doped ruthenium perovskite electrocatalysts with improved oxygen evolution activity and durability in acidic media. <i>Nature Communications</i> , 2019, 10, 2041. | 12.8 | 227 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Tailoring the catalytic activity of electrodes with monolayer amounts of foreign metals. <i>Chemical Society Reviews</i> , 2013, 42, 5210. | 38.1 | 202 |
| 20 | Why Is Bulk Thermochemistry a Good Descriptor for the Electrocatalytic Activity of Transition Metal Oxides?. <i>ACS Catalysis</i> , 2015, 5, 869-873. | 11.2 | 189 |
| 21 | First-principles computational electrochemistry: Achievements and challenges. <i>Electrochimica Acta</i> , 2012, 84, 3-11. | 5.2 | 180 |
| 22 | Performance and degradation of Proton Exchange Membrane Fuel Cells: State of the art in modeling from atomistic to system scale. <i>Journal of Power Sources</i> , 2016, 304, 207-233. | 7.8 | 180 |
| 23 | Why conclusions from platinum model surfaces do not necessarily lead to enhanced nanoparticle catalysts for the oxygen reduction reaction. <i>Chemical Science</i> , 2017, 8, 2283-2289. | 7.4 | 173 |
| 24 | Bond-Making and Breaking between Carbon, Nitrogen, and Oxygen in Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 15694-15701. | 13.7 | 168 |
| 25 | Adsorption-Driven Surface Segregation of the Less Reactive Alloy Component. <i>Journal of the American Chemical Society</i> , 2009, 131, 2404-2407. | 13.7 | 160 |
| 26 | How covalence breaks adsorption-energy scaling relations and solvation restores them. <i>Chemical Science</i> , 2017, 8, 124-130. | 7.4 | 145 |
| 27 | Enhancing CO ₂ Electroreduction to Ethanol on Copper-Silver Composites by Opening an Alternative Catalytic Pathway. <i>ACS Catalysis</i> , 2020, 10, 4059-4069. | 11.2 | 145 |
| 28 | Structure-sensitive electroreduction of acetaldehyde to ethanol on copper and its mechanistic implications for CO and CO ₂ reduction. <i>Catalysis Today</i> , 2016, 262, 90-94. | 4.4 | 132 |
| 29 | Elucidating the Facet-Dependent Selectivity for CO ₂ Electroreduction to Ethanol of Cu-Ag Tandem Catalysts. <i>ACS Catalysis</i> , 2021, 11, 4456-4463. | 11.2 | 130 |
| 30 | La _{1.5} Sr _{0.5} NiMn _{0.5} Ru _{0.5} O ₆ Double Perovskite with Enhanced ORR/OER Bifunctional Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21454-21464. | 8.0 | 129 |
| 31 | On the behavior of Brønsted-Evans-Polanyi relations for transition metal oxides. <i>Journal of Chemical Physics</i> , 2011, 134, 244509. | 3.0 | 128 |
| 32 | Oxygen reduction and evolution at single-metal active sites: Comparison between functionalized graphitic materials and protoporphyrins. <i>Surface Science</i> , 2013, 607, 47-53. | 1.9 | 121 |
| 33 | Structure- and Coverage-Sensitive Mechanism of NO Reduction on Platinum Electrodes. <i>ACS Catalysis</i> , 2017, 7, 4660-4667. | 11.2 | 118 |
| 34 | Does the breaking of adsorption-energy scaling relations guarantee enhanced electrocatalysis?. <i>Current Opinion in Electrochemistry</i> , 2018, 8, 110-117. | 4.8 | 115 |
| 35 | Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. <i>Angewandte Chemie</i> , 2017, 129, 3675-3678. | 2.0 | 112 |
| 36 | Computational Comparison of Late Transition Metal (100) Surfaces for the Electrocatalytic Reduction of CO to C ₂ Species. <i>ACS Energy Letters</i> , 2018, 3, 1062-1067. | 17.4 | 103 |

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|----|--|------|-----------|
| 37 | Trends in Stability of Perovskite Oxides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7699-7701. | 13.8 | 98 |
| 38 | Theoretical design and experimental implementation of Ag/Au electrodes for the electrochemical reduction of nitrate. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3196. | 2.8 | 98 |
| 39 | Enhanced Electroreduction of Carbon Dioxide to Methanol Using Zinc Dendrites Pulse-Deposited on Silver Foam. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2256-2260. | 13.8 | 98 |
| 40 | Making the hydrogen evolution reaction in polymer electrolyte membrane electrolyzers even faster. <i>Nature Communications</i> , 2016, 7, 10990. | 12.8 | 97 |
| 41 | Revealing the nature of active sites in electrocatalysis. <i>Chemical Science</i> , 2019, 10, 8060-8075. | 7.4 | 96 |
| 42 | Structural principles to steer the selectivity of the electrocatalytic reduction of aliphatic ketones on platinum. <i>Nature Catalysis</i> , 2019, 2, 243-250. | 34.4 | 95 |
| 43 | Design of an Active Site towards Optimal Electrocatalysis: Overlayers, Surface Alloys and Near-Surface Alloys of Cu/Pt(111). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11845-11848. | 13.8 | 94 |
| 44 | Generalized trends in the formation energies of perovskite oxides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7526. | 2.8 | 85 |
| 45 | Importance of Solvation for the Accurate Prediction of Oxygen Reduction Activities of Pt-Based Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2243-2246. | 4.6 | 85 |
| 46 | Density functional theory study of adsorption of H ₂ O, H, O, and OH on stepped platinum surfaces. <i>Journal of Chemical Physics</i> , 2014, 140, 134708. | 3.0 | 83 |
| 47 | Outlining the Scaling-Based and Scaling-Free Optimization of Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 4218-4225. | 11.2 | 76 |
| 48 | A New Type of Scaling Relations to Assess the Accuracy of Computational Predictions of Catalytic Activities Applied to the Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2017, 9, 1261-1268. | 3.7 | 75 |
| 49 | Structure dependency of the atomic-scale mechanisms of platinum electro-oxidation and dissolution. <i>Nature Catalysis</i> , 2020, 3, 754-761. | 34.4 | 72 |
| 50 | A Semiempirical Method to Detect and Correct DFT-Based Gas-Phase Errors and Its Application in Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 6900-6907. | 11.2 | 71 |
| 51 | Accounting for Bifurcating Pathways in the Screening for CO ₂ Reduction Catalysts. <i>ACS Catalysis</i> , 2017, 7, 7346-7351. | 11.2 | 70 |
| 52 | A brief review of the computational modeling of CO ₂ electroreduction on Cu electrodes. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 158-165. | 4.8 | 64 |
| 53 | On the mechanism of the electrochemical conversion of ammonia to dinitrogen on Pt(111) in alkaline environment. <i>Journal of Catalysis</i> , 2018, 359, 82-91. | 6.2 | 62 |
| 54 | Designing water splitting catalysts using rules of thumb: advantages, dangers and alternatives. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6797-6803. | 2.8 | 59 |

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|----|--|------|-----------|
| 55 | Enabling Generalized Coordination Numbers to Describe Strain Effects. <i>ChemSusChem</i> , 2018, 11, 1824-1828. | 6.8 | 57 |
| 56 | A Step Closer to the Electrochemical Production of Liquid Fuels. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10858-10860. | 13.8 | 56 |
| 57 | Affordable Estimation of Solvation Contributions to the Adsorption Energies of Oxygenates on Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5578-5582. | 3.1 | 54 |
| 58 | Substantial improvement of electrocatalytic predictions by systematic assessment of solvent effects on adsorption energies. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119147. | 20.2 | 53 |
| 59 | Trends in Metal Oxide Stability for Nanorods, Nanotubes, and Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2244-2252. | 3.1 | 52 |
| 60 | Alkali Metal Cation Effects in Structuring Pt, Rh, and Au Surfaces through Cathodic Corrosion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39363-39379. | 8.0 | 50 |
| 61 | Oxygen Reduction at a Cu-Modified Pt(111) Model Electrocatalyst in Contact with Nafion Polymer. <i>ACS Catalysis</i> , 2014, 4, 3772-3778. | 11.2 | 47 |
| 62 | Why (1 0 0) Terraces Break and Make Bonds: Oxidation of Dimethyl Ether on Platinum Single-Crystal Electrodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 14329-14338. | 13.7 | 46 |
| 63 | Nature of Highly Active Electrocatalytic Sites for the Hydrogen Evolution Reaction at Pt Electrodes in Acidic Media. <i>ACS Omega</i> , 2017, 2, 8141-8147. | 3.5 | 46 |
| 64 | Electrocatalytic Reduction of Nitrate on a Pt Electrode Modified by p-Block Metal Adatoms in Acid Solution. <i>ChemCatChem</i> , 2013, 5, 1773-1783. | 3.7 | 45 |
| 65 | Double-Stranded Water on Stepped Platinum Surfaces. <i>Physical Review Letters</i> , 2016, 116, 136101. | 7.8 | 45 |
| 66 | Quantitative Coordination-Activity Relations for the Design of Enhanced Pt Catalysts for CO Electro-oxidation. <i>ACS Catalysis</i> , 2017, 7, 4355-4359. | 11.2 | 45 |
| 67 | Establishing and Understanding Adsorption-Energy Scaling Relations with Negative Slopes. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5302-5306. | 4.6 | 43 |
| 68 | Oxygen Reduction Reaction: Rapid Prediction of Mass Activity of Nanostructured Platinum Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4463-4468. | 4.6 | 43 |
| 69 | Understanding Adsorption-Induced Effects on Platinum Nanoparticles: An Energy-Decomposition Analysis. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3120-3124. | 4.6 | 37 |
| 70 | Importance of the gas-phase error correction for O ₂ when using DFT to model the oxygen reduction and evolution reactions. <i>Journal of Electroanalytical Chemistry</i> , 2021, 896, 115178. | 3.8 | 37 |
| 71 | Interconversions of nitrogen-containing species on Pt(100) and Pt(111) electrodes in acidic solutions containing nitrate. <i>Electrochimica Acta</i> , 2018, 271, 77-83. | 5.2 | 36 |
| 72 | How oxidation state and lattice distortion influence the oxygen evolution activity in acid of iridium double perovskites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2980-2990. | 10.3 | 36 |

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|----|---|------|-----------|
| 73 | Elucidating the Structure of Ethanol-Producing Active Sites at Oxide-Derived Cu Electrocatalysts. ACS Catalysis, 2020, 10, 10488-10494. | 11.2 | 35 |
| 74 | Theory-Guided Enhancement of CO ₂ Reduction to Ethanol on Ag-Cu Tandem Catalysts via Particle-Size Effects. ACS Catalysis, 2021, 11, 13330-13336. | 11.2 | 34 |
| 75 | Initial stages of water solvation of stepped platinum surfaces. Physical Chemistry Chemical Physics, 2016, 18, 3416-3422. | 2.8 | 32 |
| 76 | Scanning Tunneling Microscopy Evidence for the Dissociation of Carbon Monoxide on Ruthenium Steps. Journal of Physical Chemistry C, 2012, 116, 14350-14359. | 3.1 | 30 |
| 77 | Selectivity Map for the Late Stages of CO and CO ₂ Reduction to C ₂ Species on Copper Electrodes. Angewandte Chemie - International Edition, 2021, 60, 10784-10790. | 13.8 | 30 |
| 78 | The Role of Undercoordinated Sites on Zinc Electrodes for CO ₂ Reduction to CO. Advanced Functional Materials, 2022, 32, . | 14.9 | 30 |
| 79 | How symmetry factors cause potential- and facet-dependent pathway shifts during CO ₂ reduction to CH ₄ on Cu electrodes. Applied Catalysis B: Environmental, 2021, 285, 119776. | 20.2 | 28 |
| 80 | Capturing Solvation Effects at a Liquid/Nanoparticle Interface by Ab Initio Molecular Dynamics: Pt ₂₀₁ Immersed in Water. Small, 2016, 12, 5312-5319. | 10.0 | 25 |
| 81 | Tailoring structural and electronic properties of RuO ₂ nanotubes: a many-body approach and electronic transport. Physical Chemistry Chemical Physics, 2013, 15, 14715. | 2.8 | 23 |
| 82 | First-Principles Structural and Electronic Characterization of Ordered SiO ₂ Nanowires. Journal of Physical Chemistry C, 2012, 116, 18973-18982. | 3.1 | 22 |
| 83 | Anisotropic etching of rhodium and gold as the onset of nanoparticle formation by cathodic corrosion. Faraday Discussions, 2016, 193, 207-222. | 3.2 | 21 |
| 84 | Monitoring the active sites for the hydrogen evolution reaction at model carbon surfaces. Physical Chemistry Chemical Physics, 2021, 23, 10051-10058. | 2.8 | 21 |
| 85 | Fast Correction of Errors in the DFT-Calculated Energies of Gaseous Nitrogen-Containing Species. ChemCatChem, 2021, 13, 2508-2516. | 3.7 | 21 |
| 86 | Impact of Intrinsic Density Functional Theory Errors on the Predictive Power of Nitrogen Cycle Electrocatalysis Models. ACS Catalysis, 2022, 12, 4784-4791. | 11.2 | 20 |
| 87 | Influence of Van der Waals Interactions on the Solvation Energies of Adsorbates at Pt-Based Electrocatalysts. ChemPhysChem, 2019, 20, 2968-2972. | 2.1 | 16 |
| 88 | Trends in C=O and N=O bond scission on rutile oxides described using oxygen vacancy formation energies. Chemical Science, 2020, 11, 4119-4124. | 7.4 | 16 |
| 89 | Revealing the Nature of Active Sites on Pt-Gd and Pt-Pr Alloys during the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2022, 14, 19604-19613. | 8.0 | 16 |
| 90 | Role of lattice oxygen content and Ni geometry in the oxygen evolution activity of the Ba-Ni-O system. Journal of Power Sources, 2018, 404, 56-63. | 7.8 | 15 |

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| 91 | Toward Efficient Tandem Electroreduction of CO ₂ to Methanol using Anodized Titanium. ACS Catalysis, 2021, 11, 8467-8475. | 11.2 | 13 |
| 92 | Evaluation of the Electrochemical Stability of Model Cu-Pt(111) Near-Surface Alloy Catalysts. Electrochimica Acta, 2015, 179, 469-474. | 5.2 | 12 |
| 93 | Fast identification of optimal pure platinum nanoparticle shapes and sizes for efficient oxygen electroreduction. Nanoscale Advances, 2019, 1, 2901-2909. | 4.6 | 12 |
| 94 | Quantifying Local and Cooperative Components in the Ferroelectric Distortion of BaTiO ₃ : Learning from the Off-Center Motion in the MnCl ₆ ⁵⁻ Complex Formed in KCl:Mn ⁺ . Inorganic Chemistry, 2014, 53, 6534-6543. | 4.0 | 11 |
| 95 | Different promoting roles of ruthenium for the oxidation of primary and secondary alcohols on PtRu electrocatalysts. Journal of Catalysis, 2021, 400, 166-172. | 6.2 | 11 |
| 96 | The bifunctional volcano plot: thermodynamic limits for single-atom catalysts for oxygen reduction and evolution. Journal of Materials Chemistry A, 2022, 10, 5937-5941. | 10.3 | 11 |
| 97 | On the shifting peak of volcano plots for oxygen reduction and evolution. Electrochimica Acta, 2022, 426, 140799. | 5.2 | 11 |
| 98 | Identifying the time-dependent predominance regimes of step and terrace sites for the Fischer-Tropsch synthesis on ruthenium based catalysts. Catalysis Science and Technology, 2016, 6, 6495-6503. | 4.1 | 10 |
| 99 | Electrochemical formation and surface characterisation of Cu ₂ xTe thin films with adjustable content of Cu. RSC Advances, 2013, 3, 21648. | 3.6 | 8 |
| 100 | Enhanced Electroreduction of Carbon Dioxide to Methanol Using Zinc Dendrites Pulse-Deposited on Silver Foam. Angewandte Chemie, 2019, 131, 2278-2282. | 2.0 | 7 |
| 101 | Interplaying coordination and ligand effects to break or make adsorption-energy scaling relations. Exploration, 2022, 2, . | 11.0 | 7 |
| 102 | Structure-sensitive scaling relations among carbon-containing species and their possible impact on CO ₂ electroreduction. Journal of Catalysis, 2021, 395, 136-142. | 6.2 | 6 |
| 103 | Gas-phase errors affect DFT-based electrocatalysis models of oxygen reduction to hydrogen peroxide. ChemElectroChem, 2022, 9, . | 3.4 | 6 |
| 104 | Finding Key Factors for Efficient Water and Methanol Activation at Metals, Oxides, MXenes, and Metal/Oxide Interfaces. ACS Catalysis, 2022, 12, 1237-1246. | 11.2 | 5 |
| 105 | Computational-experimental study of the onset potentials for CO ₂ reduction on polycrystalline and oxide-derived copper electrodes. Electrochimica Acta, 2021, 380, 138247. | 5.2 | 4 |
| 106 | Selectivity Map for the Late Stages of CO and CO ₂ Reduction to C ₂ Species on Copper Electrodes. Angewandte Chemie, 2021, 133, 10879-10885. | 2.0 | 3 |
| 107 | Gas-phase Errors Affect DFT-Based Electrocatalysis Models of Oxygen Reduction to Hydrogen Peroxide. ChemElectroChem, 2022, 9, . | 3.4 | 2 |
| 108 | Metallicity enhancement in core-shell SiO ₂ @RuO ₂ nanowires. RSC Advances, 2014, 4, 34696-34700. | 3.6 | 1 |

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|-----|---|-----|-----------|
| 109 | Theoretical Study of the Structural Stability and the Electronic Properties of Al _m H _n Clusters. Journal of Computational and Theoretical Nanoscience, 2011, 8, 609-615. | 0.4 | 0 |
| 110 | Tailoring the electronic structure of graphene for catalytic and nanoelectronic applications. , 2011, , . | | 0 |
| 111 | InnenrÄ¼cktitelbild: Theoretical Considerations on the Electroreduction of CO to C ₂ Species on Cu(100) Electrodes (Angew. Chem. 28/2013). Angewandte Chemie, 2013, 125, 7463-7463. | 2.0 | 0 |
| 112 | How Au Outperforms Pt in the Catalytic Reduction of Methane Towards Ethane and Molecular Hydrogen. Topics in Catalysis, 2018, 61, 1290-1299. | 2.8 | 0 |
| 113 | Primary Vs. Secondary Alcohols Electrooxidation: Mechanistic Insights. ECS Meeting Abstracts, 2021, MA2021-01, 1870-1870. | 0.0 | 0 |
| 114 | (Invited) Structure-Activity Relationships for CO and CO ₂ Electroreduction to C ₂ Species on Copper. ECS Meeting Abstracts, 2017, , . | 0.0 | 0 |
| 115 | Tandem Electrochemical Conversion of CO ₂ to Liquid Fuels and Chemical Feedstocks. ECS Meeting Abstracts, 2022, MA2022-01, 1615-1615. | 0.0 | 0 |
| 116 | (Digital Presentation) High-Resolution Imaging of Active Sites Under Reaction Conditions for Carbon-Based Electrocatalysis. ECS Meeting Abstracts, 2022, MA2022-01, 627-627. | 0.0 | 0 |