# HÃ©ctor AbruÃ±a

List of Publications by Year
in descending order

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|---|---|---|---|
| 269<br>papers | 27,361<br>citations | 6613<br>79<br>h-index | 6131<br>159<br>g-index |
| 279<br>all docs | 279<br>docs citations | 279<br>times ranked | 26308<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New insights into methanol and formic acid electro-oxidation on Pt: Simultaneous DEMS and ATR-SEIRAS study under well-defined flow conditions and simulations of CO spectra. Journal of Chemical Physics, 2022, 156, 034703. | 3.0 | 6 |
| 2 | Nonprecious transition metal nitrides as efficient oxygen reduction electrocatalysts for alkaline fuel cells. Science Advances, 2022, 8, eabj1584. | 10.3 | 94 |
| 3 | Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321. | 47.7 | 195 |
| 4 | La-Based Perovskite Oxide Catalysts for Alkaline Oxygen Reduction: The Importance of Electrochemical Stability. Journal of Physical Chemistry C, 2022, 126, 3098-3108. | 3.1 | 7 |
| 5 | Competitive nucleation and growth behavior in Liâ€“Se batteries. Energy and Environmental Science, 2022, 15, 1493-1502. | 30.8 | 16 |
| 6 | Visualization of Sodium Metal Anodes via Operando X-Ray and Optical Microscopy: Controlling the Morphological Evolution of Sodium Metal Plating. ACS Applied Materials & Interfaces, 2022, 14, 10438-10446. | 8.0 | 20 |
| 7 | Modular terpene synthesis enabled by mild electrochemical couplings. Science, 2022, 375, 745-752. | 12.6 | 62 |
| 8 | A completely precious metalâ€“free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119883119. | 7.1 | 54 |
| 9 | Metal Monolayers on Command: Underpotential Deposition at Nanocrystal Surfaces: A Quantitative Operando Electrochemical Transmission Electron Microscopy Study. ACS Energy Letters, 2022, 7, 1292-1297. | 17.4 | 7 |
| 10 | Oxidative Stability Matters: A Case Study of Palladium Hydride Nanosheets for Alkaline Fuel Cells. Journal of the American Chemical Society, 2022, 144, 8106-8114. | 13.7 | 27 |
| 11 | Cobalt-electrocatalytic HAT for functionalization of unsaturated Câ€“C bonds. Nature, 2022, 605, 687-695. | 27.8 | 65 |
| 12 | Ex Situ and In Situ Analyses of the Mechanism of Electrocatalytic Hydrogen Peroxide Production by Co<sub>x</sub>Zn<sub>1â€“x</sub>O (0 < x < 0.018) Materials in Alkaline Media. ACS Applied Energy Materials, 2022, 5, 6597-6605. | 5.1 | 2 |
| 13 | Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. Cell Reports Physical Science, 2022, 3, 100912. | 5.6 | 1 |
| 14 | Surface Roughness-Independent Homogeneous Lithium Plating in Synergetic Conditioned Electrolyte. ACS Energy Letters, 2022, 7, 2219-2227. | 17.4 | 8 |
| 15 | Investigation of ion-electrode interactions of linear polyimides and alkali metal ions for next generation alternative-ion batteries. Chemical Science, 2022, 13, 9191-9201. | 7.4 | 11 |
| 16 | Rate and Mechanism of Electrochemical Formation of Surface-Bound Hydrogen on Pt(111) Single Crystals. Journal of Physical Chemistry Letters, 2022, 13, 6383-6390. | 4.6 | 3 |
| 17 | Lithiumâ€“sulfur redox: challenges and opportunities. Current Opinion in Electrochemistry, 2021, 25, 100652. | 4.8 | 14 |
| 18 | Operando Methods in Electrocatalysis. ACS Catalysis, 2021, 11, 1136-1178. | 11.2 | 131 |

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|---|---|---|---|
| 19 | Performance optimization and fast rate capabilities of novel polymer cathode materials through balanced electronic and ionic transport. Journal of Materials Chemistry A, 2021, 9, 5657-5663. | 10.3 | 19 |
| 20 | Organic electrode materials for fast-rate, high-power battery applications. Materials Reports Energy, 2021, 1, 100008. | 3.2 | 43 |
| 21 | Effect of Structural Ordering on the Charge Storage Mechanism of p-Type Organic Electrode Materials. ACS Applied Materials & Interfaces, 2021, 13, 7135-7141. | 8.0 | 23 |
| 22 | Anion Exchange and Water Dynamics in a Phosphonium-Based Alkaline Anion Exchange Membrane Material for Fuel Cells: An Electrochemical Quartz Crystal Microbalance Study. ACS Applied Materials & Interfaces, 2021, 13, 10979-10986. | 8.0 | 5 |
| 23 | Interface-Enhanced Catalytic Selectivity on the C<sub>2</sub> Products of CO<sub>2</sub> Electroreduction. ACS Catalysis, 2021, 11, 2473-2482. | 11.2 | 92 |
| 24 | Designing Synergistic Electrocatalysts for H<sub>2</sub> Oxidation and Evolution Reactions in Alkaline Media. Journal of Physical Chemistry C, 2021, 125, 7188-7203. | 3.1 | 9 |
| 25 | Methanol Oxidation at Platinum in Alkaline Media: A Study of the Effects of Hydroxide Concentration and of Mass Transport. ChemPhysChem, 2021, 22, 1397-1406. | 2.1 | 12 |
| 26 | Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. Chemistry of Materials, 2021, 33, 4006-4013. | 6.7 | 9 |
| 27 | Enhancement of the Oxygen Reduction Reaction Activity of Pt by Tuning Its d-Band Center via Transition Metal Oxide Support Interactions. ACS Catalysis, 2021, 11, 9317-9332. | 11.2 | 87 |
| 28 | Elucidating Cathodic Corrosion Mechanisms with Operando Electrochemical Liquid-Cell STEM in Multiple Dimensions. Microscopy and Microanalysis, 2021, 27, 238-240. | 0.4 | 4 |
| 29 | A channel flow cell with double disk electrodes for oxygen electroreduction study at elevated temperatures and pressures: Theory. Journal of Electroanalytical Chemistry, 2021, 896, 115251. | 3.8 | 1 |
| 30 | Optimizing accuracy and efficacy in data-driven materials discovery for the solar production of hydrogen. Energy and Environmental Science, 2021, 14, 2335-2348. | 30.8 | 23 |
| 31 | Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones. Chemistry of Materials, 2021, 33, 8334-8342. | 6.7 | 12 |
| 32 | Understanding the Impacts of Li Stripping Overpotentials at the Counter Electrode by Three-Electrode Coin Cell Measurements. Analytical Chemistry, 2021, 93, 15459-15467. | 6.5 | 15 |
| 33 | Ni-rich LiNi0.88Mn0.06Co0.06O2 cathode interwoven by carbon fiber with improved rate capability and stability. Journal of Power Sources, 2020, 447, 227344. | 7.8 | 24 |
| 34 | Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. ACS Catalysis, 2020, 10, 770-776. | 11.2 | 45 |
| 35 | Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. Journal of the American Chemical Society, 2020, 142, 16-20. | 13.7 | 256 |
| 36 | Electron Tunneling through Boron Nitride Confirms Marcusâ€“Hush Theory Predictions for Ultramicroelectrodes. ACS Nano, 2020, 14, 993-1002. | 14.6 | 16 |

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|---|---|---|---|
| 37 | Regulating lithium nucleation and growth by zinc modified current collectors. Nano Research, 2020, 13, 45-51. | 10.4 | 19 |
| 38 | The Intricate Love Affairs between MoS<sub>2</sub> and Metallic Substrates. Advanced Materials Interfaces, 2020, 7, 2001324. | 3.7 | 15 |
| 39 | Enhanced ORR Kinetics on Au-Doped Ptâ€“Cu Porous Films in Alkaline Media. ACS Catalysis, 2020, 10, 9967-9976. | 11.2 | 65 |
| 40 | Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. ACS Catalysis, 2020, 10, 9977-9985. | 11.2 | 75 |
| 41 | Activityâ€“Stability Relationship in Au@Pt Nanoparticles for Electrocatalysis. ACS Energy Letters, 2020, 5, 2827-2834. | 17.4 | 49 |
| 42 | Electrolyte screening studies for Li metal batteries. Chemical Communications, 2020, 56, 11883-11886. | 4.1 | 9 |
| 43 | Synergistic Bimetallic Metallic Organic Framework-Derived Ptâ€“Co Oxygen Reduction Electrocatalysts. ACS Nano, 2020, 14, 13069-13080. | 14.6 | 82 |
| 44 | Cryo-STEM-EDX for Reliable Characterization of Sulfur Distribution and the Rational Design of Sulfur Hosts for Li-S Batteries. Microscopy and Microanalysis, 2020, 26, 1654-1658. | 0.4 | 3 |
| 45 | Electrocatalysis: Kinetic Enhancement of Sulfur Cathodes by Nâ€Doped Porous Graphitic Carbon with Bound VN Nanocrystals (Small 48/2020). Small, 2020, 16, 2070261. | 10.0 | 2 |
| 46 | Advances in Cryo-Electron Microscopy for Understanding Energy Materials. Microscopy and Microanalysis, 2020, 26, 1648-1650. | 0.4 | 1 |
| 47 | Kinetic Enhancement of Sulfur Cathodes by Nâ€Doped Porous Graphitic Carbon with Bound VN Nanocrystals. Small, 2020, 16, e2004950. | 10.0 | 64 |
| 48 | Electrochemical Screening of Metallic Oxygen Reduction Reaction Catalyst Thin Films Using Getter Cosputtering. ACS Combinatorial Science, 2020, 22, 339-347. | 3.8 | 1 |
| 49 | Multifunctional Electrocatalysts: Ruâ€“M (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. ACS Catalysis, 2020, 10, 4608-4616. | 11.2 | 102 |
| 50 | An Innovative Lithium Ion Battery System Based on a Cu<sub>2</sub>S Anode Material. ACS Applied Materials & Interfaces, 2020, 12, 17396-17405. | 8.0 | 24 |
| 51 | Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS<sub>2</sub> and Gold. Journal of Physical Chemistry Letters, 2020, 11, 6112-6118. | 4.6 | 77 |
| 52 | Operando Synchrotron-Based X-ray Study of Prussian Blue and Its Analogue as Cathode Materials for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 16332-16337. | 3.1 | 6 |
| 53 | Combinatorial Studies of Palladium-Based Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2020, 142, 3980-3988. | 13.7 | 63 |
| 54 | Crossâ€linking Effects on Performance Metrics of Phenazineâ€Based Polymer Cathodes. ChemSusChem, 2020, 13, 2428-2435. | 6.8 | 41 |

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| 55 | Enhancing the Electrocatalytic Activity of Pd/M (M = Ni, Mn) Nanoparticles for the Oxygen Reduction Reaction in Alkaline Media through Electrochemical Dealloying. ACS Catalysis, 2020, 10, 5891-5898. | 11.2 | 74 |
| 56 | Single-phase Ru1â^'â^'Mn Co O2 nanoparticles as highly effective oxygen reduction electrocatalysts in alkaline media with enhanced stability and fuel-tolerance. Applied Catalysis B: Environmental, 2020, 277, 119149. | 20.2 | 13 |
| 57 | Quantifying the Atomic Ordering of Binary Intermetallic Nanocatalysts Using In Situ Heating STEM and XRD. Microscopy and Microanalysis, 2019, 25, 1488-1489. | 0.4 | 1 |
| 58 | Sulfur encapsulation by MOF-derived CoS<sub>2</sub> embedded in carbon hosts for high-performance Liâ€“S batteries. Journal of Materials Chemistry A, 2019, 7, 21128-21139. | 10.3 | 79 |
| 59 | Uniform lithium deposition on N-doped carbon-coated current collectors. Chemical Communications, 2019, 55, 10124-10127. | 4.1 | 24 |
| 60 | Ultrahigh Rate Performance of a Robust Lithium Nickel Manganese Cobalt Oxide Cathode with Preferentially Orientated Li-Diffusing Channels. ACS Applied Materials & Interfaces, 2019, 11, 41178-41187. | 8.0 | 20 |
| 61 | Atomicâ€Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS<sub>2</sub> by Cryogenic Electron Microscopy. Advanced Energy Materials, 2019, 9, 1902773. | 19.5 | 33 |
| 62 | Rock-Salt-Type MnCo<sub>2</sub>O<sub>3</sub>/C as Efficient Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. Chemistry of Materials, 2019, 31, 9331-9337. | 6.7 | 15 |
| 63 | Revealing the atomic ordering of binary intermetallics using in situ heating techniques at multilength scales. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1974-1983. | 7.1 | 98 |
| 64 | Metalâ€“Organic-Framework-Derived Coâ€“Fe Bimetallic Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2019, 141, 10744-10750. | 13.7 | 176 |
| 65 | Elucidation of the electrochemical behavior of phenothiazine-based polyaromatic amines. Tetrahedron, 2019, 75, 4244-4249. | 1.9 | 7 |
| 66 | High-Loading Composition-Tolerant Coâ€“Mn Spinel Oxides with Performance beyond 1 W/cm<sup>2</sup> in Alkaline Polymer Electrolyte Fuel Cells. ACS Energy Letters, 2019, 4, 1251-1257. | 17.4 | 77 |
| 67 | Regulating Key Variables and Visualizing Lithium Dendrite Growth: An Operando X-ray Study. Journal of the American Chemical Society, 2019, 141, 8441-8449. | 13.7 | 96 |
| 68 | Editorial: Advances in Functional Electrodes. Electrochemistry, 2019, 87, 107-107. | 1.4 | 1 |
| 69 | Rh and Rh Alloy Nanoparticles as Highly Active H<sub>2</sub> Oxidation Catalysts for Alkaline Fuel Cells. ACS Catalysis, 2019, 9, 5057-5062. | 11.2 | 45 |
| 70 | Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. ACS Nano, 2019, 13, 5968-5974. | 14.6 | 83 |
| 71 | Scalable Synthesis of Ultrathin Mn<sub>3</sub>N<sub>2</sub> Exhibiting Roomâ€Temperature Antiferromagnetism. Advanced Functional Materials, 2019, 29, 1809001. | 14.9 | 67 |
| 72 | Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. Nature Communications, 2019, 10, 1506. | 12.8 | 212 |

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| 73 | A Strategy for Increasing the Efficiency of the Oxygen Reduction Reaction in Mn-Doped Cobalt Ferrites. Journal of the American Chemical Society, 2019, 141, 4412-4421. | 13.7 | 90 |
| 74 | Cobalt-Based Nitride-Core Oxide-Shell Oxygen Reduction Electrocatalysts. Journal of the American Chemical Society, 2019, 141, 19241-19245. | 13.7 | 154 |
| 75 | Octahedral spinel electrocatalysts for alkaline fuel cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24425-24432. | 7.1 | 60 |
| 76 | In Situ X-ray Absorption Spectroscopy of a Synergistic Coâ€“Mn Oxide Catalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2019, 141, 1463-1466. | 13.7 | 121 |
| 77 | Pt-Rich<sub>core</sub>/Sn-Rich<sub>subsurface</sub>/Pt<sub>skin</sub> Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2018, 140, 3791-3797. | 13.7 | 166 |
| 78 | Modification of Goldâ€™s Work Function upon Adsorption of Mercaptobiphenylcarbonitrile: Experimental Evidence for a Theoretical Prediction. Journal of Physical Chemistry C, 2018, 122, 6083-6092. | 3.1 | 4 |
| 79 | Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. Energy and Environmental Science, 2018, 11, 1261-1270. | 30.8 | 124 |
| 80 | High-Loading Intermetallic Pt<sub>3</sub>Co/C Coreâ€“Shell Nanoparticles as Enhanced Activity Electrocatalysts toward the Oxygen Reduction Reaction (ORR). Chemistry of Materials, 2018, 30, 1532-1539. | 6.7 | 131 |
| 81 | Understanding Conversion-Type Electrodes for Lithium Rechargeable Batteries. Accounts of Chemical Research, 2018, 51, 273-281. | 15.6 | 249 |
| 82 | High-Performance Ga<sub>2</sub>O<sub>3</sub> Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5519-5526. | 8.0 | 60 |
| 83 | Direct visualization of sulfur cathodes: new insights into Liâ€“S batteries via operando X-ray based methods. Energy and Environmental Science, 2018, 11, 202-210. | 30.8 | 96 |
| 84 | Grains and Strains from Cepstral Analysis of 4D-STEM Nano-Diffraction Datasets. Microscopy and Microanalysis, 2018, 24, 546-547. | 0.4 | 3 |
| 85 | Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. ACS Nano, 2018, 12, 10463-10472. | 14.6 | 203 |
| 86 | Controlled Selectivity of CO<sub>2</sub> Reduction on Copper by Pulsing the Electrochemical Potential. ChemSusChem, 2018, 11, 1781-1786. | 6.8 | 68 |
| 87 | Operando Methods for the Mechanistic Elucidation of an Electrochemically Driven Structural Transformation. Journal of Physical Chemistry C, 2018, 122, 12377-12383. | 3.1 | 5 |
| 88 | Pt-Decorated Composition-Tunable Pdâ€“Fe@Pd/C Coreâ€“Shell Nanoparticles with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 7248-7255. | 13.7 | 116 |
| 89 | SnS/C nanocomposites for high-performance sodium ion battery anodes. RSC Advances, 2018, 8, 23847-23853. | 3.6 | 28 |
| 90 | Copper-Induced Formation of Structurally Ordered Ptâ€“Feâ€“Cu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. Chemistry of Materials, 2018, 30, 5987-5995. | 6.7 | 96 |

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| 91 | Phenothiazine-Based Polymer Cathode Materials with Ultrahigh Power Densities for Lithium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3560-3564. | 5.1 | 63 |
| 92 | Relaxation of asymmetric crystallographic tilt: In situ x-ray diffraction studies of epitaxial electrodeposition of bismuth on GaAs (110). Journal of Applied Physics, 2018, 124, . | 2.5 | 3 |
| 93 | Dynamic Hosts for High-Performance Liâ€“S Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. ACS Energy Letters, 2018, 3, 1325-1330. | 17.4 | 47 |
| 94 | The effect of alloying of transition metals (MÂ= Fe, Co, Ni) with palladium catalysts on the electrocatalytic activity for the oxygen reduction reaction in alkaline media. Electrochimica Acta, 2018, 283, 1045-1052. | 5.2 | 30 |
| 95 | Porous Fe<sub>3</sub>O<sub>4</sub>Nanospheres as Effective Sulfur Hosts for Li-S Batteries. Journal of the Electrochemical Society, 2018, 165, A1656-A1661. | 2.9 | 23 |
| 96 | Solar energy conversion, storage, and release using an integrated solar-driven redox flow battery. Journal of Materials Chemistry A, 2017, 5, 5362-5372. | 10.3 | 52 |
| 97 | Electrochemical Hydrogen Evolution at Ordered Mo<sub>7</sub>Ni<sub>7</sub>. ACS Catalysis, 2017, 7, 3375-3383. | 11.2 | 62 |
| 98 | IrPdRu/C as H<sub>2</sub> Oxidation Catalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2017, 139, 6807-6810. | 13.7 | 117 |
| 99 | Rediscovering Cr2O72â€“, an Oxidant with Unrivaled Power and Energy Density, for Affordable, Next-Generation Energy Storage and Conversion. ACS Energy Letters, 2017, 2, 1439-1443. | 17.4 | 3 |
| 100 | Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. Journal of the American Chemical Society, 2017, 139, 15530-15538. | 13.7 | 120 |
| 101 | Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability LiNi<sub>0.6</sub>Mn<sub>0.2</sub>Co<sub>0.2</sub>O<sub>2</sub> Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35811-35819. | 8.0 | 73 |
| 102 | Hybrid Organic Electrodes: The Rational Design and Synthesis of High-Energy Redox-Active Pendant Functionalized Polypyrroles for Electrochemical Energy Storage. Journal of the Electrochemical Society, 2017, 164, A1946-A1951. | 2.9 | 6 |
| 103 | Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. ACS Catalysis, 2017, 7, 6485-6492. | 11.2 | 141 |
| 104 | Rapid hydrothermal synthesis of Li3VO4 with different favored facets. Journal of Solid State Electrochemistry, 2017, 21, 2547-2553. | 2.5 | 8 |
| 105 | Rotating Disk Electrode Voltammetry of Thin Films of Novel Oxide Materials. Journal of the Electrochemical Society, 2017, 164, H1154-H1160. | 2.9 | 10 |
| 106 | In Situ TEM for Electrochemical Energy Storage and Conversion Systems. Microscopy and Microanalysis, 2016, 22, 1326-1327. | 0.4 | 0 |
| 107 | Hydroxyl Radical Generation and DNA Nuclease Activity: A Mechanistic Study Based on a Surfaceâ€Immobilized Copper Thioether Clipâ€Phen Derivative. Chemistry - A European Journal, 2016, 22, 10081-10089. | 3.3 | 23 |
| 108 | In Situ Electrochemical Cell TEM for Battery and Fuel Cell Systems. Microscopy and Microanalysis, 2016, 22, 752-753. | 0.4 | 0 |

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| 109 | Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. Scientific Data, 2016, 3, 160041. | 5.3 | 42 |
| 110 | Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. ACS Central Science, 2016, 2, 667-673. | 11.3 | 349 |
| 111 | Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. Nature Communications, 2016, 7, 11941. | 12.8 | 67 |
| 112 | The Sodiumâ€“Oxygen/Carbon Dioxide Electrochemical Cell. ChemSusChem, 2016, 9, 1600-1606. | 6.8 | 14 |
| 113 | Structure of the Photo-catalytically Active Surface of SrTiO<sub>3</sub>. Journal of the American Chemical Society, 2016, 138, 7816-7819. | 13.7 | 64 |
| 114 | In situ electrochemical characterization of poly-3,4-ethylenedioxythiophene/tetraalkylphenylene diamine films and their potential use in electrochemical energy storage devices. Journal of Electroanalytical Chemistry, 2016, 765, 65-72. | 3.8 | 10 |
| 115 | In Situ TEM for Quantitative Electrochemistry of Energy Systems. Microscopy and Microanalysis, 2015, 21, 1509-1510. | 0.4 | 4 |
| 116 | Cationâ€Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. Angewandte Chemie - International Edition, 2015, 54, 13225-13229. | 13.8 | 86 |
| 117 | Rapid and Efficient Redox Processes within 2D Covalent Organic Framework Thin Films. ACS Nano, 2015, 9, 3178-3183. | 14.6 | 318 |
| 118 | Tailoring Pore Size of Nitrogenâ€Doped Hollow Carbon Nanospheres for Confining Sulfur in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1401752. | 19.5 | 273 |
| 119 | Synthesis of carbon supported ordered tetragonal pseudo-ternary Pt2Mâ€²Mâ€³ (MÂ=ÂFe, Co, Ni) nanoparticles and their activity for oxygen reduction reaction. Journal of Power Sources, 2015, 280, 459-466. | 7.8 | 41 |
| 120 | Morphology and Activity Tuning of Cu<sub>3</sub>Pt/C Ordered Intermetallic Nanoparticles by Selective Electrochemical Dealloying. Nano Letters, 2015, 15, 1343-1348. | 9.1 | 131 |
| 121 | Template-Free Synthesis of Hollow-Structured Co<sub>3</sub>O<sub>4</sub> Nanoparticles as High-Performance Anodes for Lithium-Ion Batteries. ACS Nano, 2015, 9, 1775-1781. | 14.6 | 275 |
| 122 | Synthesis and Characterization of Poly-3,4-ethylenedioxythiophene/2,5-Dimercapto-1,3,4-thiadiazole (PEDOT-DMcT) Hybrids. Electrochimica Acta, 2015, 167, 55-60. | 5.2 | 21 |
| 123 | Origin of Multiple Peaks in the Potentiodynamic Oxidation of CO Adlayers on Pt and Ru-Modified Pt Electrodes. Journal of Physical Chemistry Letters, 2015, 6, 1899-1906. | 4.6 | 38 |
| 124 | Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disordering. Journal of the American Chemical Society, 2015, 137, 14992-14998. | 13.7 | 85 |
| 125 | High power organic cathodes using thin films of electropolymerized benzidine polymers. Chemical Communications, 2015, 51, 14674-14677. | 4.1 | 12 |
| 126 | The Mechanism of the Oneâ€Step Synthesis of Hollowâ€Structured Li<sub>3</sub>VO<sub>4</sub> as an Anode for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 5608-5612. | 3.3 | 38 |

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| 127 | Water Oxidation Catalysis by Co(II) Impurities in Co(III)<sub>4</sub>O<sub>4</sub> Cubanes. Journal of the American Chemical Society, 2014, 136, 17681-17688. | 13.7 | 152 |
| 128 | Mechanistic insights into operational lithiumâ€“sulfur batteries by in situ X-ray diffraction and absorption spectroscopy. RSC Advances, 2014, 4, 18347. | 3.6 | 122 |
| 129 | A rechargeable Naâ€“CO<sub>2</sub>/O<sub>2</sub>battery enabled by stable nanoparticle hybrid electrolytes. Journal of Materials Chemistry A, 2014, 2, 17723-17729. | 10.3 | 92 |
| 130 | Theoretical Studies of Carbonyl-Based Organic Molecules for Energy Storage Applications: The Heteroatom and Substituent Effect. Journal of Physical Chemistry C, 2014, 118, 6046-6051. | 3.1 | 91 |
| 131 | An Electrochemical Quartz Crystal Microbalance Study of a Prospective Alkaline Anion Exchange Membrane Material for Fuel Cells: Anion Exchange Dynamics and Membrane Swelling. Journal of the American Chemical Society, 2014, 136, 5309-5322. | 13.7 | 43 |
| 132 | Magnetic tunnel junctions with single-layer-graphene tunnel barriers. Physical Review B, 2014, 89, . | 3.2 | 65 |
| 133 | Synthesis of Structurally Ordered Pt<sub>3</sub>Ti and Pt<sub>3</sub>V Nanoparticles as Methanol Oxidation Catalysts. Journal of the American Chemical Society, 2014, 136, 10206-10209. | 13.7 | 197 |
| 134 | Breaking the Crowther limit: Combining depth-sectioning and tilt tomography for high-resolution, wide-field 3D reconstructions. Ultramicroscopy, 2014, 140, 26-31. | 1.9 | 35 |
| 135 | Nanoscale Imaging of Lithium Ion Distribution During In Situ Operation of Battery Electrode and Electrolyte. Nano Letters, 2014, 14, 1453-1459. | 9.1 | 238 |
| 136 | Pt Skin on AuCu Intermetallic Substrate: A Strategy to Maximize Pt Utilization for Fuel Cells. Journal of the American Chemical Society, 2014, 136, 9643-9649. | 13.7 | 220 |
| 137 | Key Parameters Governing the Energy Density of Rechargeable Li/S Batteries. Journal of Physical Chemistry Letters, 2014, 5, 882-885. | 4.6 | 101 |
| 138 | Nanoscale Imaging of Lithium Ion Distribution During In Situ Operation of a Battery Electrode and Electrolyte. Microscopy and Microanalysis, 2014, 20, 1524-1525. | 0.4 | 2 |
| 139 | Amylopectin Wrapped Graphene Oxide/Sulfur for Improved Cyclability of Lithiumâ€“Sulfur Battery. ACS Nano, 2013, 7, 8801-8808. | 14.6 | 181 |
| 140 | Yolkâ€“Shell Structure of Polyaniline-Coated Sulfur for Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2013, 135, 16736-16743. | 13.7 | 734 |
| 141 | Î²-Ketoenamine-Linked Covalent Organic Frameworks Capable of Pseudocapacitive Energy Storage. Journal of the American Chemical Society, 2013, 135, 16821-16824. | 13.7 | 949 |
| 142 | Energy in the Age of Sustainability. Journal of Chemical Education, 2013, 90, 1411-1413. | 2.3 | 11 |
| 143 | In operando X-ray studies of the conversion reaction in Mn<sub>3</sub>O<sub>4</sub>lithium battery anodes. Journal of Materials Chemistry A, 2013, 1, 2094-2103. | 10.3 | 118 |
| 144 | An exchangeable-tip scanning probe instrument for the analysis of combinatorial libraries of electrocatalysts. Review of Scientific Instruments, 2013, 84, 024101. | 1.3 | 9 |

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