

Jeng-Kuei Chang

List of Publications by Year in descending order

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252
papers

8,770
citations

38742

50
h-index

69250

77
g-index

255
all docs

255
docs citations

255
times ranked

9579
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Material Characterization and Electrochemical Performance of Hydrous Manganese Oxide Electrodes for Use in Electrochemical Pseudocapacitors. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1333. | 2.9 | 254 |
| 2 | Nano-architected Co(OH) ₂ electrodes constructed using an easily-manipulated electrochemical protocol for high-performance energy storage applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 3729. | 6.7 | 228 |
| 3 | Graphene nanosheets, carbon nanotubes, graphite, and activated carbon as anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10320-10326. | 10.3 | 216 |
| 4 | A Honeycomb-like Co@N-C Composite for Ultrahigh Sulfur Loading Li-S Batteries. <i>ACS Nano</i> , 2017, 11, 11417-11424. | 14.6 | 211 |
| 5 | High entropy spinel oxide nanoparticles for superior lithiation-delithiation performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18963-18973. | 10.3 | 164 |
| 6 | Dicyanamide anion based ionic liquids for electrodeposition of metals. <i>Electrochemistry Communications</i> , 2008, 10, 213-216. | 4.7 | 151 |
| 7 | Electrodeposition of aluminum on magnesium alloy in aluminum chloride (AlCl ₃)-1-ethyl-3-methylimidazolium chloride (EMIC) ionic liquid and its corrosion behavior. <i>Electrochemistry Communications</i> , 2007, 9, 1602-1606. | 4.7 | 146 |
| 8 | Electrochemical performance of Na/NaFePO ₄ sodium-ion batteries with ionic liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5655. | 10.3 | 142 |
| 9 | Graphene grown on stainless steel as a high-performance and ecofriendly anti-corrosion coating for polymer electrolyte membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2015, 282, 248-256. | 7.8 | 140 |
| 10 | An entirely electrochemical preparation of a nano-structured cobalt oxide electrode with superior redox activity. <i>Nanotechnology</i> , 2009, 20, 175602. | 2.6 | 137 |
| 11 | Effect of heat treatment on material characteristics and pseudo-capacitive properties of manganese oxide prepared by anodic deposition. <i>Journal of Power Sources</i> , 2004, 135, 344-353. | 7.8 | 136 |
| 12 | Manganese oxide/carbon composite electrodes for electrochemical capacitors. <i>Electrochemistry Communications</i> , 2004, 6, 666-671. | 4.7 | 135 |
| 13 | In situ Mn K-edge X-ray absorption spectroscopic studies of anodically deposited manganese oxide with relevance to supercapacitor applications. <i>Journal of Power Sources</i> , 2007, 166, 590-594. | 7.8 | 114 |
| 14 | Physicochemical properties and electrochemical behavior of binary manganese-cobalt oxide electrodes for supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2008, 108, 124-131. | 4.0 | 104 |
| 15 | Rechargeable Na/Na _{0.44} MnO ₂ cells with ionic liquid electrolytes containing various sodium solutes. <i>Journal of Power Sources</i> , 2015, 274, 1016-1023. | 7.8 | 102 |
| 16 | High dispersion of 1-nm SnO ₂ particles between graphene nanosheets constructed using supercritical CO ₂ fluid for sodium-ion battery anodes. <i>Nano Energy</i> , 2016, 28, 124-134. | 16.0 | 101 |
| 17 | High-performance electrochemical pseudo-capacitor based on MnO ₂ nanowires/Ni foam as electrode with a novel Li-ion quasi-ionic liquid as electrolyte. <i>Energy and Environmental Science</i> , 2011, 4, 3942. | 30.8 | 96 |
| 18 | Formation of Nanoporous Nickel by Selective Anodic Etching of the Nobler Copper Component from Electrodeposited Nickel-Copper Alloys. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1371-1376. | 3.1 | 95 |

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|----|--|------|-----------|
| 19 | X-ray Photoelectron Spectroscopy and in Situ X-ray Absorption Spectroscopy Studies on Reversible Insertion/Desertion of Dicyanamide Anions into/from Manganese Oxide in Ionic Liquid. <i>Chemistry of Materials</i> , 2009, 21, 2688-2695. | 6.7 | 95 |
| 20 | Facile synthesis of silk-cocoon S-rich cobalt polysulfide as an efficient catalyst for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2018, 11, 2467-2475. | 30.8 | 91 |
| 21 | A facile approach to produce holey graphene and its application in supercapacitors. <i>Carbon</i> , 2015, 81, 347-356. | 10.3 | 89 |
| 22 | Annealed Mn-Fe binary oxides for supercapacitor applications. <i>Journal of Power Sources</i> , 2008, 185, 1550-1556. | 7.8 | 86 |
| 23 | Ionic Liquid Electrolytes with Various Sodium Solutes for Rechargeable Na/NaFePO ₄ Batteries Operated at Elevated Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17564-17570. | 8.0 | 84 |
| 24 | Titanium Carbide (MXene) as a Current Collector for Lithium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 12489-12494. | 3.5 | 77 |
| 25 | Electrochemical performance of MIL-53(Fe)@RGO as an Organic Anode Material for Li-ion Batteries. <i>Electrochimica Acta</i> , 2017, 246, 528-535. | 5.2 | 76 |
| 26 | Microwave growth and tunable photoluminescence of nitrogen-doped graphene and carbon nitride quantum dots. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5468-5476. | 5.5 | 75 |
| 27 | MoS ₂ /graphene cathodes for reversibly storing Mg ²⁺ and Mg ²⁺ /Li ⁺ in rechargeable magnesium-anode batteries. <i>Chemical Communications</i> , 2016, 52, 1701-1704. | 4.1 | 74 |
| 28 | Moderately concentrated electrolyte improves solid-electrolyte interphase and sodium storage performance of hard carbon. <i>Energy Storage Materials</i> , 2019, 16, 146-154. | 18.0 | 73 |
| 29 | Tightly connected MnO ₂ -graphene with tunable energy density and power density for supercapacitor applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 7697. | 6.7 | 72 |
| 30 | Fluorescence of functionalized graphene quantum dots prepared from infrared-assisted pyrolysis of citric acid and urea. <i>Journal of Luminescence</i> , 2020, 217, 116774. | 3.1 | 72 |
| 31 | Electrodeposition behavior of nickel in the water- and air-stable 1-ethyl-3-methylimidazolium-dicyanamide room-temperature ionic liquid. <i>Electrochimica Acta</i> , 2008, 53, 5812-5818. | 5.2 | 70 |
| 32 | Ionic-liquid-enhanced glucose sensing ability of non-enzymatic Au/graphene electrodes fabricated using supercritical CO ₂ fluid. <i>Biosensors and Bioelectronics</i> , 2013, 46, 30-36. | 10.1 | 68 |
| 33 | Ionic Liquid Electrolytes with Various Constituent Ions for Graphene-based Supercapacitors. <i>Electrochimica Acta</i> , 2015, 161, 371-377. | 5.2 | 65 |
| 34 | Manganese films electrodeposited at different potentials and temperatures in ionic liquid and their application as electrode materials for supercapacitors. <i>Electrochimica Acta</i> , 2008, 53, 4447-4453. | 5.2 | 63 |
| 35 | Electrochemistry of Zn(II)/Zn on Mg alloy from the N-butyl-N-methylpyrrolidinium dicyanamide ionic liquid. <i>Electrochimica Acta</i> , 2011, 56, 6071-6077. | 5.2 | 61 |
| 36 | ZIF-8-Based Quasi-Solid-State Electrolyte for Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46671-46677. | 8.0 | 61 |

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|----|--|------|-----------|
| 37 | Physicochemical factors that affect the pseudocapacitance and cyclic stability of Mn oxide electrodes. <i>Electrochimica Acta</i> , 2009, 54, 3278-3284. | 5.2 | 59 |
| 38 | Pseudocapacitive Mechanism of Manganese Oxide in 1-Ethyl-3-methylimidazolium Thiocyanate Ionic Liquid Electrolyte Studied Using X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2009, 25, 11955-11960. | 3.5 | 59 |
| 39 | Supercritical CO ₂ -Assisted SiO _x /Carbon Multi-Layer Coating on Si Anode for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104135. | 14.9 | 59 |
| 40 | Thermal conductivity from hierarchical heat sinks using carbon nanotubes and graphene nanosheets. <i>Nanoscale</i> , 2015, 7, 18663-18670. | 5.6 | 58 |
| 41 | Highly enhanced electrochemical performance of ultrafine CuO nanoparticles confined in ordered mesoporous carbons as anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14222-14233. | 10.3 | 58 |
| 42 | Tailoring fluorescence emissions, quantum yields, and white light emitting from nitrogen-doped graphene and carbon nitride quantum dots. <i>Nanoscale</i> , 2019, 11, 16553-16561. | 5.6 | 57 |
| 43 | Ideal pseudocapacitive performance of the Mn oxide anodized from the nanostructured and amorphous Mn thin film electrodeposited in BMP-NTf ₂ ionic liquid. <i>Journal of Power Sources</i> , 2008, 179, 435-440. | 7.8 | 56 |
| 44 | Decorating carbon nanotubes with Ni particles using an electroless deposition technique for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7555-7562. | 7.1 | 56 |
| 45 | Corrosion characteristics of nickel, copper, and stainless steel in a Lewis neutral chloroaluminate ionic liquid. <i>Corrosion Science</i> , 2011, 53, 4318-4323. | 6.6 | 53 |
| 46 | Atomic-scale investigation of Lithiation/Delithiation mechanism in High-entropy spinel oxide with superior electrochemical performance. <i>Chemical Engineering Journal</i> , 2021, 420, 129838. | 12.7 | 53 |
| 47 | Microstructure and Pseudocapacitive Performance of Anodically Deposited Manganese Oxide with Various Heat-Treatments. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2063. | 2.9 | 52 |
| 48 | A novel electrochemical process to prepare a high-porosity manganese oxide electrode with promising pseudocapacitive performance. <i>Journal of Power Sources</i> , 2008, 177, 676-680. | 7.8 | 52 |
| 49 | Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene-Foam Electrode. <i>Advanced Materials</i> , 2021, 33, e2102633. | 21.0 | 52 |
| 50 | Improved supercapacitor performance of MnO ₂ -graphene composites constructed using a supercritical fluid and wrapped with an ionic liquid. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3395. | 10.3 | 51 |
| 51 | Correlations between electrochemical Na ⁺ storage properties and physicochemical characteristics of holey graphene nanosheets. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17282-17289. | 10.3 | 51 |
| 52 | Electrochemically grown nanocrystalline V ₂ O ₅ as high-performance cathode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 285, 418-424. | 7.8 | 51 |
| 53 | Suitability of ionic liquid electrolytes for room-temperature sodium-ion battery applications. <i>Chemical Communications</i> , 2016, 52, 10890-10893. | 4.1 | 51 |
| 54 | Effects of Iron Addition on Material Characteristics and Pseudo-Capacitive Behavior of Mn-Oxide Electrodes. <i>Journal of the Electrochemical Society</i> , 2007, 154, A875. | 2.9 | 50 |

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|----|---|------|-----------|
| 55 | Corrosion behaviors of materials in aluminum chloride–1-ethyl-3-methylimidazolium chloride ionic liquid. <i>Electrochemistry Communications</i> , 2010, 12, 1091-1094. | 4.7 | 50 |
| 56 | Co-free high entropy spinel oxide anode with controlled morphology and crystallinity for outstanding charge/discharge performance in Lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132658. | 12.7 | 49 |
| 57 | Co-deposition of Al–Zn on AZ91D magnesium alloy in AlCl ₃ –1-ethyl-3-methylimidazolium chloride ionic liquid. <i>Electrochimica Acta</i> , 2010, 55, 2158-2162. | 5.2 | 48 |
| 58 | Carbonaceous Anodes Derived from Sugarcane Bagasse for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2302-2309. | 6.8 | 48 |
| 59 | Effects of Elemental Modulation on Phase Purity and Electrochemical Properties of Co-free High-Entropy Spinel Oxide Anodes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 48 |
| 60 | Improved Corrosion Resistance of Magnesium Alloy with a Surface Aluminum Coating Electrodeposited in Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2008, 155, C112. | 2.9 | 44 |
| 61 | Electrodeposition of Palladium–Copper Films from 1-Ethyl-3-methylimidazolium Chloride–Tetrafluoroborate Ionic Liquid on Indium Tin Oxide Electrodes. <i>Journal of the Electrochemical Society</i> , 2009, 156, D193. | 2.9 | 44 |
| 62 | Electroless deposition of Ni nanoparticles on carbon nanotubes with the aid of supercritical CO ₂ fluid and a synergistic hydrogen storage property of the composite. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5490-5497. | 7.1 | 44 |
| 63 | Uniform dispersion of Pd nanoparticles on carbon nanostructures using a supercritical fluid deposition technique and their catalytic performance towards hydrogen spillover. <i>Journal of Materials Chemistry</i> , 2011, 21, 19063. | 6.7 | 44 |
| 64 | Pseudocapacitive behavior of Mn oxide in aprotic 1-ethyl-3-methylimidazolium–dicyanamide ionic liquid. <i>Journal of Materials Chemistry</i> , 2009, 19, 3732. | 6.7 | 43 |
| 65 | Corrosion properties of metals in dicyanamide-based ionic liquids. <i>Corrosion Science</i> , 2014, 78, 81-88. | 6.6 | 43 |
| 66 | Holey Graphene Nanosheets with Surface Functional Groups as High-Performance Supercapacitors in Ionic-Liquid Electrolyte. <i>ChemSusChem</i> , 2015, 8, 1779-1786. | 6.8 | 43 |
| 67 | Electrolyte Optimization for Enhancing Electrochemical Performance of Antimony Sulfide/Graphene Anodes for Sodium-Ion Batteries–Carbonate-Based and Ionic Liquid Electrolytes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8269-8276. | 6.7 | 43 |
| 68 | Facile synthesis of core–shell structured Si@graphene balls as a high-performance anode for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 9616-9627. | 5.6 | 43 |
| 69 | Fabrication of anode-supported thin BCZY electrolyte protonic fuel cells using NiO sintering aid. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23784-23792. | 7.1 | 42 |
| 70 | Unique Pd/graphene nanocomposites constructed using supercritical fluid for superior electrochemical sensing performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 21466. | 6.7 | 41 |
| 71 | Infrared-assisted Synthesis of Lithium Nickel Cobalt Alumina Oxide Powders as Electrode Material for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2016, 206, 207-216. | 5.2 | 41 |
| 72 | Functional Group-Dependent Supercapacitive and Aging Properties of Activated Carbon Electrodes in Organic Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1208-1214. | 6.7 | 41 |

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|----|--|------|-----------|
| 73 | An oxygen-blocking oriented multifunctional solidâ€œelectrolyte interphase as a protective layer for a lithium metal anode in lithiumâ€œoxygen batteries. <i>Energy and Environmental Science</i> , 2021, 14, 1439-1448. | 30.8 | 41 |
| 74 | Pseudocapacitance of MnO ₂ originates from reversible insertion/desertion of thiocyanate anions studied using in situ X-ray absorption spectroscopy in ionic liquid electrolyte. <i>Journal of Power Sources</i> , 2010, 195, 919-922. | 7.8 | 40 |
| 75 | Improved pseudocapacitive performance and cycle life of cobalt hydroxide on an electrochemically derived nano-porous Ni framework. <i>Journal of Power Sources</i> , 2011, 196, 7828-7834. | 7.8 | 40 |
| 76 | Doped butylmethylpyrrolidiniumâ€œdicyanamide ionic liquid as an electrolyte for MnO ₂ supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 6274. | 6.7 | 40 |
| 77 | A functionalized membrane for lithiumâ€œoxygen batteries to suppress the shuttle effect of redox mediators. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14260-14270. | 10.3 | 40 |
| 78 | Effects of Temperature and Concentration on the Structure and Specific Capacitance of Manganese Oxide Deposited in Manganese Acetate Solution. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 953-961. | 2.9 | 39 |
| 79 | High energy density of all-screen-printable solid-state microsupercapacitors integrated by graphene/CNTs as hierarchical electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12779-12789. | 10.3 | 38 |
| 80 | A Novel Moistureâ€œinsensitive and Lowâ€œCorrosivity Ionic Liquid Electrolyte for Rechargeable Aluminum Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909565. | 14.9 | 38 |
| 81 | Charge-storage performance of Li/LiFePO ₄ cells with additive-incorporated ionic liquid electrolytes at various temperatures. <i>Journal of Power Sources</i> , 2014, 260, 268-275. | 7.8 | 37 |
| 82 | The proton conduction and hydrogen permeation characteristic of Sr(Ce _{0.6} Zr _{0.4}) _{0.85} Y _{0.15} O ₃ â€œ ceramic separation membrane. <i>Journal of the European Ceramic Society</i> , 2015, 35, 163-170. | 5.7 | 37 |
| 83 | Comparative Study on the Morphology-Dependent Performance of Various CuO Nanostructures as Anode Materials for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10876-10885. | 6.7 | 37 |
| 84 | Effects of the Co content in the material characteristics and supercapacitive performance of binary Mnâ€œCo oxide electrodes. <i>Journal of Alloys and Compounds</i> , 2008, 461, 667-674. | 5.5 | 35 |
| 85 | High-selectivity electrochemical non-enzymatic sensors based on graphene/Pd nanocomposites functionalized with designated ionic liquids. <i>Biosensors and Bioelectronics</i> , 2017, 89, 483-488. | 10.1 | 34 |
| 86 | A Waterâ€œSoluble NaCMC/NaPAA Binder for Exceptional Improvement of Sodiumâ€œIon Batteries with an SnO ₂ â€œOrdered Mesoporous Carbon Anode. <i>ChemSusChem</i> , 2018, 11, 3923-3931. | 6.8 | 34 |
| 87 | High reversible Li plating and stripping by in-situ construction a multifunctional lithium-pinned array. <i>Energy Storage Materials</i> , 2020, 28, 188-195. | 18.0 | 34 |
| 88 | Diameter-sensitive biocompatibility of anodic TiO ₂ nanotubes treated with supercritical CO ₂ fluid. <i>Nanoscale Research Letters</i> , 2013, 8, 150. | 5.7 | 33 |
| 89 | Three-dimensional interpenetrating mesoporous carbon confining SnO ₂ particles for superior sodiation/desodiation properties. <i>Nanoscale</i> , 2017, 9, 8674-8683. | 5.6 | 33 |
| 90 | Electrochemical Characteristics of a Polymer/Garnet Trilayer Composite Electrolyte for Solid-State Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2507-2520. | 8.0 | 33 |

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|-----|---|------|-----------|
| 91 | Gravimetric/volumetric capacitances, leakage current, and gas evolution of activated carbon supercapacitors. <i>Electrochimica Acta</i> , 2016, 222, 1153-1159. | 5.2 | 32 |
| 92 | Hybrid electrolyte enables safe and practical 5 V LiNi _{0.5} Mn _{1.5} O ₄ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16516-16525. | 10.3 | 32 |
| 93 | Highly concentrated carbonate electrolyte for Li-ion batteries with lithium metal and graphite anodes. <i>Journal of Power Sources</i> , 2020, 450, 227657. | 7.8 | 32 |
| 94 | Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32797-32805. | 8.0 | 32 |
| 95 | BaZr _{0.2} Ce _{0.8} Y _x O ₃ solid oxide fuel cell electrolyte synthesized by sol-gel combined with composition-exchange method. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14434-14440. | 7.1 | 30 |
| 96 | Strontium doping effect on phase homogeneity and conductivity of Ba _{1-x} Sr _x Ce _{0.6} Zr _{0.2} Y _{0.2} O ₃ proton-conducting oxides. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11097-11103. | 7.1 | 29 |
| 97 | Manipulation of Heteroatom Substitution on Nitrogen and Phosphorus Co-Doped Graphene as a High Active Catalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22202-22211. | 3.1 | 29 |
| 98 | Ionic liquid electrolytes for high-voltage rechargeable Li/LiNi _{0.5} Mn _{1.5} O ₄ cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3613. | 10.3 | 28 |
| 99 | In situ atomic scale investigation of Li ₇ La ₃ Zr ₂ O ₁₂ -based Li ⁺ -conducting solid electrolyte during calcination growth. <i>Nano Energy</i> , 2020, 71, 104625. | 16.0 | 28 |
| 100 | An interfacial wetting water based hydrogel electrolyte for high-voltage flexible quasi solid-state supercapacitors. <i>Energy Storage Materials</i> , 2021, 38, 489-498. | 18.0 | 28 |
| 101 | Charge-Discharge Mechanism of High-Entropy Co-Free Spinel Oxide Toward Li ⁺ Storage Examined Using Operando Quick-Scanning X-Ray Absorption Spectroscopy. <i>Advanced Science</i> , 2022, 9, . | 11.2 | 28 |
| 102 | Effects of Co, Mn contents on the electrochemical characteristics of the LaNi _{3.8} (Co + Mn) _{0.96} Al _{0.24} electrodes in potassium hydroxide electrolyte. <i>Journal of Power Sources</i> , 2002, 103, 280-285. | 7.8 | 27 |
| 103 | Electrodeposition of Palladium-Tin Alloys from 1-Ethyl-3-methylimidazolium Chloride-Tetrafluoroborate Ionic Liquid for Ethanol Electro-Oxidation. <i>Journal of the Electrochemical Society</i> , 2010, 157, D443. | 2.9 | 27 |
| 104 | Nanostructured Na-doped vanadium oxide synthesized using an anodic deposition technique for supercapacitor applications. <i>Journal of Alloys and Compounds</i> , 2012, 536, S428-S431. | 5.5 | 27 |
| 105 | Electrochemical performance of rechargeable Li/LiFePO ₄ cells with ionic liquid electrolyte: Effects of Li salt at 25°C and 50°C. <i>Journal of Power Sources</i> , 2013, 240, 676-682. | 7.8 | 27 |
| 106 | Improvement of the Electrochemical Characteristics of Lithium and Manganese Rich Layered Cathode Materials: Effect of Surface Coating. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1957-A1965. | 2.9 | 27 |
| 107 | A polyoxometalate-based polymer electrolyte with an improved electrode interface and ion conductivity for high-safety all-solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15924-15932. | 10.3 | 27 |
| 108 | The advent of manganese-substituted sodium vanadium phosphate-based cathodes for sodium-ion batteries and their current progress: a focused review. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1022-1046. | 10.3 | 26 |

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|-----|---|------|-----------|
| 109 | Enhancing hydrogen storage on carbon nanotubes via hybrid chemical etching and Pt decoration employing supercritical carbon dioxide fluid. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6714-6720. | 7.1 | 25 |
| 110 | The effects of ionic liquid on the electrochemical sensing performance of graphene- and carbon nanotube-based electrodes. <i>Analyst, The</i> , 2013, 138, 576-582. | 3.5 | 25 |
| 111 | Optimizing the Mg Doping Concentration of Na ₃ V ₂ â€“(x)/sub>Mg_x(PO ₄) ₂ F ₃ /C for Enhanced Sodiation/Desodiation Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6962-6971. | 6.7 | 25 |
| 112 | Heat-treatment induced material property variations of Al-coated Mg alloy prepared in aluminum chloride/1-ethyl-3-methylimidazolium chloride ionic liquid. <i>Surface and Coatings Technology</i> , 2010, 205, 200-204. | 4.8 | 24 |
| 113 | Microstructure and Electrochemical Characteristics of Aluminum Anodized Film Formed in Ammonium Adipate Solution. <i>Journal of the Electrochemical Society</i> , 2003, 150, B266. | 2.9 | 23 |
| 114 | In situ X-ray absorption spectroscopic studies of anodically deposited binary Mnâ€“Fe mixed oxides with relevance to pseudocapacitance. <i>Journal of Power Sources</i> , 2008, 178, 476-482. | 7.8 | 23 |
| 115 | Fabrication of Porous Tin by Template-Free Electrodeposition of Tin Nanowires from an Ionic Liquid. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, D85. | 2.2 | 23 |
| 116 | Evaluation of Ionic Liquid Electrolytes for Use in Manganese Oxide Supercapacitors. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A19. | 2.2 | 23 |
| 117 | Buckyball-, carbon nanotube-, graphite-, and graphene-enhanced dehydrogenation of lithium aluminum hydride. <i>Chemical Communications</i> , 2013, 49, 8845. | 4.1 | 23 |
| 118 | Copolymers Based on 1,3-Bis(carbazol-9-yl)benzene and Three 3,4-Ethylenedioxythiophene Derivatives as Potential Anodically Coloring Copolymers in High-Contrast Electrochromic Devices. <i>Polymers</i> , 2016, 8, 368. | 4.5 | 23 |
| 119 | Scalable Patterning of MoS ₂ Nanoribbons by Micromolding in Capillaries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20993-21001. | 8.0 | 23 |
| 120 | The hierarchical porosity of a three-dimensional graphene electrode for binder-free and high performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 8384-8394. | 3.6 | 23 |
| 121 | Synthesis of bimetallic sulfide FeCoS ₄ @carbon nanotube graphene hybrid as a high-performance anode material for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 423, 130070. | 12.7 | 23 |
| 122 | Tin phosphide-carbon composite as a high-performance anode active material for sodium-ion batteries with high energy density. <i>Journal of Energy Chemistry</i> , 2022, 64, 463-474. | 12.9 | 23 |
| 123 | Effect of Heat-Treatment on Characteristics of Anodized Aluminum Oxide Formed in Ammonium Adipate Solution. <i>Journal of the Electrochemical Society</i> , 2004, 151, B188. | 2.9 | 22 |
| 124 | Diffusion coefficients, spin-lattice relaxation times, and chemical shift variations of NMR spectra in LiTFSI-doped ether- and allyl-functionalized dicationic ionic liquids. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 138-150. | 5.3 | 22 |
| 125 | Hydrogenated Anatase and Rutile TiO ₂ for Sodium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 5738-5746. | 5.1 | 22 |
| 126 | Microplasma-assisted bottom-up synthesis of graphene nanosheets with superior sodium-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7624-7631. | 10.3 | 21 |

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|-----|---|------|-----------|
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