

Di-Hua Wang

List of Publications by Year in descending order

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205
papers

7,389
citations

53660

45
h-index

82410

72
g-index

213
all docs

213
docs citations

213
times ranked

4540
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Capture and electrochemical conversion of CO ₂ to value-added carbon and oxygen by molten salt electrolysis. <i>Energy and Environmental Science</i> , 2013, 6, 1538. | 15.6 | 262 |
| 2 | The electrochemical reduction processes of solid compounds in high temperature molten salts. <i>Chemical Society Reviews</i> , 2014, 43, 3215. | 18.7 | 210 |
| 3 | Electrochemical Preparation of Silicon and Its Alloys from Solid Oxides in Molten Calcium Chloride. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 733-736. | 7.2 | 188 |
| 4 | A durable and pH-universal self-standing MoCâ€“Mo ₂ C heterojunction electrode for efficient hydrogen evolution reaction. <i>Nature Communications</i> , 2021, 12, 6776. | 5.8 | 169 |
| 5 | Electrochemically Driven Three-Phase Interlines into Insulator Compounds: Electroreduction of Solid SiO ₂ in Molten CaCl ₂ . <i>ChemPhysChem</i> , 2006, 7, 1750-1758. | 1.0 | 155 |
| 6 | Electrolytic Formation of Crystalline Silicon/Germanium Alloy Nanotubes and Hollow Particles with Enhanced Lithiumâ€“Storage Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7427-7431. | 7.2 | 153 |
| 7 | Harvesting Capacitive Carbon by Carbonization of Waste Biomass in Molten Salts. <i>Environmental Science & Technology</i> , 2014, 48, 8101-8108. | 4.6 | 151 |
| 8 | Electrochemistry at Conductor/Insulator/Electrolyte Three-Phase Interlines: A Thin Layer Model. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14043-14051. | 1.2 | 138 |
| 9 | g-C ₃ N ₄ Modified biochar as an adsorptive and photocatalytic material for decontamination of aqueous organic pollutants. <i>Applied Surface Science</i> , 2015, 358, 231-239. | 3.1 | 125 |
| 10 | Water and corrosion resistance of epoxyâ€“acrylicâ€“amine waterborne coatings: Effects of resin molecular weight, polar group and hydrophobic segment. <i>Corrosion Science</i> , 2013, 75, 106-113. | 3.0 | 124 |
| 11 | â€“Perovskitizationâ€“Assisted Electrochemical Reduction of Solid TiO ₂ in Molten CaCl ₂ . <i>Angewandte Chemie - International Edition</i> , 2006, 45, 428-432. | 7.2 | 115 |
| 12 | Extraction of titanium from different titania precursors by the FFC Cambridge process. <i>Journal of Alloys and Compounds</i> , 2006, 420, 37-45. | 2.8 | 111 |
| 13 | Hierarchical MoS ₂ â€“rGO nanosheets with high MoS ₂ loading with enhanced electro-catalytic performance. <i>Applied Surface Science</i> , 2015, 358, 152-158. | 3.1 | 103 |
| 14 | Production of Oxygen Gas and Liquid Metal by Electrochemical Decomposition of Molten Iron Oxide. <i>Journal of the Electrochemical Society</i> , 2011, 158, E51. | 1.3 | 101 |
| 15 | Verification and implications of the dissolutionâ€“electrodeposition process during the electro-reduction of solid silica in molten CaCl ₂ . <i>RSC Advances</i> , 2012, 2, 7588. | 1.7 | 97 |
| 16 | Effects of applied voltage and temperature on the electrochemical production of carbon powders from CO ₂ in molten salt with an inert anode. <i>Electrochimica Acta</i> , 2013, 114, 567-573. | 2.6 | 93 |
| 17 | Solid state reactions: an electrochemical approach in molten salts. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2008, 104, 189. | 4.4 | 92 |
| 18 | Electrochemical Metallization of Solid Terbium Oxide. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2384-2388. | 7.2 | 87 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Rationalisation and optimisation of solid state electro-reduction of SiO ₂ to Si in molten CaCl ₂ in accordance with dynamic three-phase interlines based voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2010, 639, 130-140. | 1.9 | 86 |
| 20 | Metallic Cavity Electrodes for Investigation of Powders. <i>Journal of the Electrochemical Society</i> , 2005, 152, E328. | 1.3 | 83 |
| 21 | Na ₂ SO ₄ -assisted synthesis of hexagonal-phase WO ₃ nanosheet assemblies with applicable electrochromic and adsorption properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1261-1269. | 5.2 | 83 |
| 22 | Three-Phase Interlines Electrochemically Driven into Insulator Compounds: A Penetration Model and Its Verification by Electroreduction of Solid AgCl. <i>Chemistry - A European Journal</i> , 2007, 13, 604-612. | 1.7 | 82 |
| 23 | Thin Pellets: Fast Electrochemical Preparation of Capacitor Tantalum Powders. <i>Chemistry of Materials</i> , 2007, 19, 153-160. | 3.2 | 80 |
| 24 | A quartz sealed Ag/AgCl reference electrode for CaCl ₂ based molten salts. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 321-328. | 1.9 | 79 |
| 25 | Thermo-solvatochromism of chloro-nickel complexes in 1-hydroxyalkyl-3-methyl-imidazolium cation based ionic liquids. <i>Green Chemistry</i> , 2008, 10, 296. | 4.6 | 74 |
| 26 | Production of iron and oxygen in molten K ₂ CO ₃ –Na ₂ CO ₃ by electrochemically splitting Fe ₂ O ₃ using a cost affordable inert anode. <i>Electrochemistry Communications</i> , 2011, 13, 1521-1524. | 2.3 | 74 |
| 27 | Visible-light-driven CO ₂ reduction to ethylene on CdS: Enabled by structural relaxation-induced intermediate dimerization and enhanced by ZIF-8 coating. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119834. | 10.8 | 71 |
| 28 | A Direct Electrochemical Route from Ilmenite to Hydrogen-Storage Ferrotitanium Alloys. <i>Chemistry - A European Journal</i> , 2006, 12, 5075-5081. | 1.7 | 66 |
| 29 | Preparation and application of capacitive carbon from bamboo shells by one step molten carbonates carbonization. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18713-18720. | 3.8 | 66 |
| 30 | Electro-reduction of cuprous chloride powder to copper nanoparticles in an ionic liquid. <i>Electrochemistry Communications</i> , 2007, 9, 1374-1381. | 2.3 | 65 |
| 31 | Electrolysis of solid MoS ₂ in molten CaCl ₂ for Mo extraction without CO ₂ emission. <i>Electrochemistry Communications</i> , 2007, 9, 1951-1957. | 2.3 | 65 |
| 32 | A self-driven alloying/dealloying approach to nanostructuring micro-silicon for high-performance lithium-ion battery anodes. <i>Energy Storage Materials</i> , 2021, 34, 768-777. | 9.5 | 64 |
| 33 | On the development of metallic inert anode for molten CaCl ₂ –CaO System. <i>Electrochimica Acta</i> , 2011, 56, 3296-3302. | 2.6 | 63 |
| 34 | Heterogeneous activation of peroxymonocarbonate by Co-Mn oxides for the efficient degradation of chlorophenols in the presence of a naturally occurring level of bicarbonate. <i>Chemical Engineering Journal</i> , 2018, 334, 1297-1308. | 6.6 | 60 |
| 35 | A direct electrochemical route from oxide precursors to the terbium–nickel intermetallic compound TbNi ₅ . <i>Electrochimica Acta</i> , 2006, 51, 5785-5793. | 2.6 | 59 |
| 36 | Solar-thermochromism of Pseudocrystalline Nanodroplets of Ionic Liquid–Ni ^{II} Complexes Immobilized inside Translucent Microporous PVDF Films. <i>Advanced Materials</i> , 2009, 21, 776-780. | 11.1 | 59 |

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|----|--|-----|-----------|
| 37 | Microbubble effect-assisted electrolytic synthesis of hollow carbon spheres from CO ₂ . Journal of Materials Chemistry A, 2017, 5, 12822-12827. | 5.2 | 59 |
| 38 | Kinetic and Thermodynamic Characterization of Enhanced Carbon Dioxide Absorption Process with Lithium Oxide-Containing Ternary Molten Carbonate. Environmental Science & Technology, 2016, 50, 10588-10595. | 4.6 | 56 |
| 39 | One-pot compositional and structural regeneration of degraded LiCoO ₂ for directly reusing it as a high-performance lithium-ion battery cathode. Green Chemistry, 2020, 22, 6489-6496. | 4.6 | 56 |
| 40 | Electrochemical Synthesis of LiTiO ₂ and LiTi ₂ O ₄ in Molten LiCl. Chemistry of Materials, 2004, 16, 4324-4329. | 3.2 | 55 |
| 41 | Direct Recovery and Efficient Reutilization of Degraded Ternary Cathode Materials from Spent Lithium-Ion Batteries via a Homogeneous Thermochemical Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 14022-14029. | 3.2 | 55 |
| 42 | Unusual anodic behaviour of chloride ion in 1-butyl-3-methylimidazolium hexafluorophosphate. Electrochemistry Communications, 2005, 7, 685-691. | 2.3 | 53 |
| 43 | Electrochemical Conversion of Oxide Precursors to Consolidated Zr and Zr ^{~2.5} Nb Tubes. Chemistry of Materials, 2008, 20, 7274-7280. | 3.2 | 50 |
| 44 | Molten salt CO ₂ capture and electro-transformation (MSCC-ET) into capacitive carbon at medium temperature: effect of the electrolyte composition. Faraday Discussions, 2016, 190, 241-258. | 1.6 | 49 |
| 45 | A sodium salt-assisted roasting approach followed by leaching for recovering spent LiFePO ₄ batteries. Journal of Hazardous Materials, 2022, 424, 127586. | 6.5 | 49 |
| 46 | More affordable electrolytic LaNi ₅ -type hydrogen storage powders. Chemical Communications, 2007, , 2515. | 2.2 | 48 |
| 47 | One-step molten salt carbonization (MSC) of firwood biomass for capacitive carbon. RSC Advances, 2016, 6, 106485-106490. | 1.7 | 47 |
| 48 | Electrolytic synthesis of carbon from the captured CO ₂ in molten LiCl-KCl-CaCO ₃ : Critical roles of electrode potential and temperature for hollow structure and lithium storage performance. Electrochimica Acta, 2018, 259, 975-985. | 2.6 | 47 |
| 49 | Advancements and potentials of molten salt CO ₂ capture and electrochemical transformation (MSCC-ET) process. Current Opinion in Electrochemistry, 2019, 17, 38-46. | 2.5 | 47 |
| 50 | Electrolytic reduction of mixed solid oxides in molten salts for energy efficient production of the TiNi alloy. Science Bulletin, 2006, 51, 2535-2540. | 1.7 | 44 |
| 51 | Molten-salt treatment of waste biomass for preparation of carbon with enhanced capacitive properties and electrocatalytic activity towards oxygen reduction. Faraday Discussions, 2016, 190, 147-159. | 1.6 | 44 |
| 52 | Synergistic Effect between S and Se Enhancing the Electrochemical Behavior of Se _x S _y in Aqueous Zn Metal Batteries. Advanced Functional Materials, 2021, 31, 2101237. | 7.8 | 44 |
| 53 | A study of the film formation kinetics on zinc in different acidic corrosion inhibitor solutions by quartz crystal microbalance. Corrosion Science, 2005, 47, 2157-2172. | 3.0 | 42 |
| 54 | Electrolytic synthesis of TbFe ₂ from Tb ₄ O ₇ and Fe ₂ O ₃ powders in molten CaCl ₂ . Journal of Electroanalytical Chemistry, 2006, 589, 139-147. | 1.9 | 42 |

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|----|---|------|-----------|
| 55 | Enhanced capacitive properties of commercial activated carbon by re-activation in molten carbonates. <i>Journal of Power Sources</i> , 2015, 298, 74-82. | 4.0 | 42 |
| 56 | Regulating electrolytic Fe _{0.5} CoNiCuZn high entropy alloy electrodes for oxygen evolution reactions in alkaline solution. <i>Journal of Materials Science and Technology</i> , 2021, 93, 110-118. | 5.6 | 42 |
| 57 | Cobalt Powder Production by Electro-Reduction of Co ₃ O ₄ Granules in Molten Carbonates Using an Inert Anode. <i>Journal of the Electrochemical Society</i> , 2015, 162, E68-E72. | 1.3 | 41 |
| 58 | Electrochemically synthesized N-doped molybdenum carbide nanoparticles for efficient catalysis of hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 261, 578-587. | 2.6 | 40 |
| 59 | Electrochemical growth of a corrosion-resistant multi-layer scale to enable an oxygen-evolution inert anode in molten carbonate. <i>Electrochimica Acta</i> , 2018, 279, 250-257. | 2.6 | 40 |
| 60 | Computer-aided control of electrolysis of solid Nb ₂ O ₅ in molten CaCl ₂ . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1809. | 1.3 | 39 |
| 61 | Cyclic Voltammetry of ZrO ₂ Powder in the Metallic Cavity Electrode in Molten CaCl ₂ . <i>Journal of the Electrochemical Society</i> , 2010, 157, F1. | 1.3 | 39 |
| 62 | Characterization and adsorption properties of the electrolytic carbon derived from CO ₂ conversion in molten salts. <i>Carbon</i> , 2017, 111, 162-172. | 5.4 | 39 |
| 63 | A paired electrolysis approach for recycling spent lithium iron phosphate batteries in an undivided molten salt cell. <i>Green Chemistry</i> , 2020, 22, 8633-8641. | 4.6 | 38 |
| 64 | Direct recovery of degraded LiCoO ₂ cathode material from spent lithium-ion batteries: Efficient impurity removal toward practical applications. <i>Waste Management</i> , 2021, 129, 85-94. | 3.7 | 38 |
| 65 | Vacuum Pyrolysis of Pine Sawdust to Recover Spent Lithium Ion Batteries: The Synergistic Effect of Carbothermic Reduction and Pyrolysis Gas Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1287-1297. | 3.2 | 38 |
| 66 | Roles of Cationic and Elemental Calcium in the Electro-Reduction of Solid Metal Oxides in Molten Calcium Chloride. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2007, 62, 292-302. | 0.7 | 37 |
| 67 | Preparation of FeCoNiCrMn High Entropy Alloy by Electrochemical Reduction of Solid Oxides in Molten Salt and Its Corrosion Behavior in Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 2017, 164, E575-E579. | 1.3 | 37 |
| 68 | Degradation of 2,4-DCP using persulfate and iron/E-carbon micro-electrolysis coupling system. <i>Journal of Hazardous Materials</i> , 2021, 413, 125381. | 6.5 | 37 |
| 69 | Electrochemically Activated Cu ₂ Te as an Ultraflat Discharge Plateau, Low Reaction Potential, and Stable Anode Material for Aqueous Zn ²⁺ Half and Full Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102607. | 10.2 | 37 |
| 70 | Synthesis of nanostructured graphite via molten salt reduction of CO ₂ and SO ₂ at a relatively low temperature. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20603-20607. | 5.2 | 36 |
| 71 | Nitrogen doped microporous carbon nanospheres derived from chitin nanogels as attractive materials for supercapacitors. <i>RSC Advances</i> , 2019, 9, 10976-10982. | 1.7 | 36 |
| 72 | Electrochemical preparation and homogenization of face-centered FeCoNiCu medium entropy alloy electrodes enabling oxygen evolution reactions. <i>Electrochimica Acta</i> , 2021, 378, 138142. | 2.6 | 36 |

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|----|---|------|-----------|
| 73 | Tuning Ni dopant concentration to enable co-deposited superhydrophilic self-standing Mo ₂ C electrode for high-efficient hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121201. | 10.8 | 36 |
| 74 | Green production of nickel powder by electro-reduction of NiO in molten Na ₂ CO ₃ -K ₂ CO ₃ . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18699-18705. | 3.8 | 35 |
| 75 | Disilicate-Assisted Iron Electrolysis for Sequential Fenton-Oxidation and Coagulation of Aqueous Contaminants. <i>Environmental Science & Technology</i> , 2017, 51, 8077-8084. | 4.6 | 35 |
| 76 | Direct and low energy electrolytic co-reduction of mixed oxides to zirconium-based multi-phase hydrogen storage alloys in molten salts. <i>Journal of Materials Chemistry</i> , 2009, 19, 2803. | 6.7 | 34 |
| 77 | Cathodic reaction kinetics for CO ₂ capture and utilization in molten carbonates at mild temperatures. <i>Electrochemistry Communications</i> , 2018, 88, 79-82. | 2.3 | 34 |
| 78 | Electrochemical Synthesis of Multidimensional Nanostructured Silicon as a Negative Electrode Material for Lithium-Ion Battery. <i>ACS Nano</i> , 2022, 16, 7689-7700. | 7.3 | 34 |
| 79 | Flue-Gas-Derived Sulfur-Doped Carbon with Enhanced Capacitance. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700047. | 2.7 | 33 |
| 80 | Solid-state diffusion during the selective dissolution of brass: chronoamperometry and positron annihilation study. <i>Electrochimica Acta</i> , 1997, 42, 1733-1737. | 2.6 | 32 |
| 81 | Template-free electrosynthesis of crystalline germanium nanowires from solid germanium oxide in molten CaCl ₂ -NaCl. <i>Electrochimica Acta</i> , 2013, 102, 369-374. | 2.6 | 32 |
| 82 | Rearrangement of oxide scale on Ni-11Fe-10Cu alloy under anodic polarization in molten Na ₂ CO ₃ -K ₂ CO ₃ . <i>Corrosion Science</i> , 2018, 141, 168-174. | 3.0 | 32 |
| 83 | Observation of Structural Decomposition of Na ₃ V ₂ (PO ₄) ₃ and Na ₃ V ₂ (PO ₄) ₂ F ₃ as Cathodes for Aqueous Zn-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2797-2807. | 2.5 | 32 |
| 84 | Phase-Tunable Fabrication of Consolidated (Î±+Î²)-TiZr Alloys for Biomedical Applications through Molten Salt Electrolysis of Solid Oxides. <i>Chemistry of Materials</i> , 2009, 21, 5187-5195. | 3.2 | 31 |
| 85 | Ultrahigh aniline-removal capacity of hierarchically structured layered manganese oxides: trapping aniline between interlayers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8676-8682. | 5.2 | 31 |
| 86 | Cyclic voltammetry of electroactive and insulative compounds in solid state: A revisit of AgCl in aqueous solutions assisted by metallic cavity electrode and chemically modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 627, 28-40. | 1.9 | 30 |
| 87 | Phosphorus-doped carbon sheets decorated with SeS ₂ as a cathode for aqueous Zn-SeS ₂ battery. <i>Chemical Engineering Journal</i> , 2021, 420, 129920. | 6.6 | 30 |
| 88 | Cu ₇ Te ₄ as an Anode Material and Zn Dendrite Inhibitor for Aqueous Zn-Ion Battery. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 30 |
| 89 | High-temperature oxidation behavior of Ni-11Fe-10Cu alloy: Growth of a protective oxide scale. <i>Corrosion Science</i> , 2016, 112, 54-62. | 3.0 | 28 |
| 90 | Nickel-Iron-Copper Alloy as Inert Anode for Ternary Molten Carbonate Electrolysis at 650Â°C. <i>Journal of the Electrochemical Society</i> , 2018, 165, E572-E577. | 1.3 | 28 |

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|-----|--|-----|-----------|
| 91 | Concentration-Dependent Enhancing Effect of Dissolved Silicate on the Oxidative Degradation of Sulfamethazine by Zero-Valent Iron under Aerobic Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 1242-1249. | 4.6 | 28 |
| 92 | Reduction mechanism and carbon content investigation for electrolytic production of iron from solid Fe ₂ O ₃ in molten K ₂ CO ₃ -Na ₂ CO ₃ using an inert anode. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 109-116. | 1.9 | 27 |
| 93 | A Natural Transporter of Silicon and Carbon: Conversion of Rice Husks to Silicon Carbide or Carbon-Silicon Hybrid for Lithium-Ion Battery Anodes via a Molten Salt Electrolysis Approach. <i>Batteries and Supercaps</i> , 2019, 2, 1007-1015. | 2.4 | 27 |
| 94 | Recovery of porous silicon from waste crystalline silicon solar panels for high-performance lithium-ion battery anodes. <i>Waste Management</i> , 2021, 135, 182-189. | 3.7 | 27 |
| 95 | Unusual temperature effect on the stability of nickel anodes in molten carbonates. <i>Electrochimica Acta</i> , 2017, 245, 410-416. | 2.6 | 26 |
| 96 | A molten calcium carbonate mediator for the electrochemical conversion and absorption of carbon dioxide. <i>Green Chemistry</i> , 2020, 22, 7946-7954. | 4.6 | 26 |
| 97 | Production of Fine Tungsten Powder by Electrolytic Reduction of Solid CaWO ₄ in Molten Salt. <i>Journal of the Electrochemical Society</i> , 2012, 159, E139-E143. | 1.3 | 25 |
| 98 | Critical operating conditions for enhanced energy-efficient molten salt CO ₂ capture and electrolytic utilization as durable looping applications. <i>Applied Energy</i> , 2019, 255, 113862. | 5.1 | 25 |
| 99 | Preparation of a porous nanostructured germanium from GeO ₂ via a "reduction-alloying-dealloying" approach. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1427-1430. | 5.2 | 24 |
| 100 | Durability of platinum coating anode in molten carbonate electrolysis cell. <i>Corrosion Science</i> , 2019, 153, 12-18. | 3.0 | 24 |
| 101 | Tunable Selectivity and High Efficiency of CO ₂ Electroreduction via Borate-Enhanced Molten Salt Electrolysis. <i>IScience</i> , 2020, 23, 101607. | 1.9 | 24 |
| 102 | Biphase Co@C core-shell catalysts for efficient Fenton-like catalysis. <i>Journal of Hazardous Materials</i> , 2022, 429, 128287. | 6.5 | 24 |
| 103 | Electropolymerization of polypyrrole at the three-phase interline: Influence of polymerization conditions. <i>Electrochimica Acta</i> , 2013, 92, 108-116. | 2.6 | 23 |
| 104 | The lithium storage performance of electrolytic-carbon from CO ₂ . <i>Journal of Power Sources</i> , 2017, 341, 419-426. | 4.0 | 23 |
| 105 | Electro-synthesis of tungsten carbide containing catalysts in molten salt for efficiently electrolytic hydrogen generation assisted by urea oxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14932-14943. | 3.8 | 23 |
| 106 | Electropolymerization of PEDOT on CNTs conductive network assembled at water/oil interface. <i>Electrochimica Acta</i> , 2014, 136, 97-104. | 2.6 | 22 |
| 107 | Spontaneous growth of CuO nanoflakes and microflowers on copper in alkaline solutions. <i>Journal of Alloys and Compounds</i> , 2017, 704, 624-630. | 2.8 | 22 |
| 108 | Electrochemical Synthesis of Nano-Metallic Carbides from the Mixtures of Metal Oxide and Graphite. <i>Journal of the Electrochemical Society</i> , 2017, 164, E144-E150. | 1.3 | 22 |

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|-----|---|-----|-----------|
| 109 | Electric Field-Driven Interfacial Alloying for in Situ Fabrication of Nano-Mo ₂ C on Carbon Fabric as Cathode toward Efficient Hydrogen Generation. ACS Applied Materials & Interfaces, 2019, 11, 38606-38615. | 4.0 | 22 |
| 110 | Electrolytic calcium hexaboride for high capacity anode of aqueous primary batteries. Journal of Materials Chemistry A, 2015, 3, 15184-15189. | 5.2 | 21 |
| 111 | A novel porous carbon derived from CO ₂ for high-efficient tetracycline adsorption: Behavior and mechanism. Applied Surface Science, 2021, 538, 148110. | 3.1 | 21 |
| 112 | Rare metals preparation by electro-reduction of solid compounds in high-temperature molten salts. Rare Metals, 2016, 35, 581-590. | 3.6 | 20 |
| 113 | Electrolysis of Lithium-Free Molten Carbonates. ACS Sustainable Chemistry and Engineering, 2021, 9, 4167-4174. | 3.2 | 20 |
| 114 | A vapor thermal approach to selective recycling of spent lithium-ion batteries. Green Chemistry, 2021, 23, 8673-8684. | 4.6 | 20 |
| 115 | Preparation of CeNi ₂ intermetallic compound by direct electroreduction of solid CeO ₂ -2NiO in molten LiCl. Journal of Rare Earths, 2012, 30, 923-927. | 2.5 | 19 |
| 116 | Electrochemical preparation of NiAl intermetallic compound from solid oxides in molten CaCl ₂ and its corrosion behaviors in NaCl aqueous solution. Materials Chemistry and Physics, 2012, 133, 465-470. | 2.0 | 19 |
| 117 | Electrolytic Formation of Crystalline Silicon/Germanium Alloy Nanotubes and Hollow Particles with Enhanced Lithium Storage Properties. Angewandte Chemie, 2016, 128, 7553-7557. | 1.6 | 19 |
| 118 | Green Carbon Material for Organic Contaminants Adsorption. Langmuir, 2020, 36, 3141-3148. | 1.6 | 19 |
| 119 | Electrochemical Conversion of Silica Nanoparticles to Silicon Nanotubes in Molten Salts: Implications for High-Performance Lithium-Ion Battery Anode. ACS Applied Nano Materials, 2021, 4, 7028-7036. | 2.4 | 19 |
| 120 | Enhanced kinetics of CO ₂ electro-reduction on a hollow gas bubbling electrode in molten ternary carbonates. Electrochemistry Communications, 2019, 100, 81-84. | 2.3 | 18 |
| 121 | Fabricating Silicon Nanotubes by Electrochemical Exfoliation and Reduction of Layer-Structured CaSiO ₃ in Molten Salt. ACS Applied Materials & Interfaces, 2021, 13, 30668-30677. | 4.0 | 18 |
| 122 | Enhanced electrocatalysis performance of amorphous electrolytic carbon from CO ₂ for oxygen reduction by surface modification in molten salt. Electrochimica Acta, 2017, 253, 248-256. | 2.6 | 17 |
| 123 | Tuning the preferentially electrochemical growth of carbon at the gaseous CO ₂ -liquid molten salt-solid electrode three-phase interline. Electrochimica Acta, 2019, 324, 134852. | 2.6 | 17 |
| 124 | Modulating carbon growth kinetics enables electrosynthesis of graphite derived from CO ₂ via a liquid-solid process. Carbon, 2021, 184, 426-436. | 5.4 | 17 |
| 125 | Waste Eggshell-derived N, P, S Tri-doped Core-shell Catalysts for Efficient Fenton-like Catalysis. Chemical Engineering Journal, 2022, 440, 135879. | 6.6 | 17 |
| 126 | Electrochemical Growth of High-Strength Carbon Nanocoils in Molten Carbonates. Nano Letters, 2022, 22, 97-104. | 4.5 | 17 |

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|-----|--|-----|-----------|
| 127 | Fabrication of free-standing conductive polymer films through dynamic three-phase interline electropolymerization. <i>Electrochemistry Communications</i> , 2011, 13, 1479-1483. | 2.3 | 16 |
| 128 | Electrosynthesis of Ti_2CO_n from TiO_2/C Composite in Molten CaCl_2 : Effect of Electrolysis Voltage and Duration. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1192-F1196. | 1.3 | 16 |
| 129 | A new implant with solid core and porous surface: The biocompatibility with bone. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2395-2407. | 2.1 | 16 |
| 130 | Electrolytic Production of Nickel-Cobalt Magnetic Alloys from Solid Oxides in Molten Carbonates. <i>Journal of the Electrochemical Society</i> , 2017, 164, E422-E427. | 1.3 | 16 |
| 131 | Corrosion behaviour and mechanism of nickel anode in SO_2 -containing molten $\text{Li}_2\text{CO}_3\text{-Na}_2\text{CO}_3\text{-K}_2\text{CO}_3$. <i>Corrosion Science</i> , 2020, 166, 108450. | 3.0 | 16 |
| 132 | Electrochemically converting micro-sized industrial Si/FeSi_2 to nano Si/FeSi for the high-performance lithium-ion battery anode. <i>Materials Today Energy</i> , 2021, 21, 100817. | 2.5 | 16 |
| 133 | Affordable electrolytic ferrotitanium alloys with marine engineering potentials. <i>Journal of Alloys and Compounds</i> , 2009, 482, 320-327. | 2.8 | 15 |
| 134 | Synergetic effect of the mineralization of organic contaminants by a combined use of permanganate and peroxymonosulfate. <i>Separation and Purification Technology</i> , 2015, 144, 248-255. | 3.9 | 14 |
| 135 | Effect of doping aluminum and yttrium on high-temperature oxidation behavior of Ni-11Fe-10Cu alloy. <i>Journal of Rare Earths</i> , 2016, 34, 1139-1147. | 2.5 | 14 |
| 136 | Adsorption of tetracycline and sulfonamide antibiotics on amorphous nano-carbon. <i>Desalination and Water Treatment</i> , 2016, 57, 22682-22694. | 1.0 | 14 |
| 137 | Spectroscopic characterization of dissolved organic matter from sludge solubilization treatment by micro-bubble technology. <i>Ecological Engineering</i> , 2017, 106, 94-100. | 1.6 | 14 |
| 138 | The capacitive performances of carbon obtained from the electrolysis of CO_2 in molten carbonates: Effects of electrolysis voltage and temperature. <i>Journal of Energy Chemistry</i> , 2020, 51, 418-424. | 7.1 | 14 |
| 139 | Buffering electrolyte alkalinity for highly selective and energy-efficient transformation of CO_2 to CO. <i>Electrochemistry Communications</i> , 2020, 121, 106864. | 2.3 | 14 |
| 140 | Electrolytic core-shell $\text{Co}@C$ for diethyl phthalate degradation. <i>Chemical Engineering Journal</i> , 2022, 431, 134065. | 6.6 | 14 |
| 141 | Intramolecular Electrostatics: Coulomb's Law at Sub-Nanometers. <i>ChemPhysChem</i> , 2004, 5, 1623-1629. | 1.0 | 13 |
| 142 | Growing highly capacitive nano- $\text{Ni}(\text{OH})_2$ on freshly cut graphite electrode by electrochemically enhanced self-assembly. <i>Electrochimica Acta</i> , 2013, 99, 198-203. | 2.6 | 13 |
| 143 | Electrochemical Preparation of Porous $\text{Ti}_{13}\text{Zr}_{13}\text{Nb}$ Alloy and Its Corrosion Behavior in Ringer's Solution. <i>Materials Transactions</i> , 2017, 58, 326-330. | 0.4 | 13 |
| 144 | Understanding the electrode reaction process of dechlorination of 2,4-dichlorophenol over Ni/Fe nanoparticles: Effect of pH and 2,4-dichlorophenol concentration. <i>Journal of Environmental Sciences</i> , 2019, 84, 13-20. | 3.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Thermal reduction-desorption of cadmium from contaminated soil by a biomass co-pyrolysis process. <i>Journal of Hazardous Materials</i> , 2022, 423, 126937. | 6.5 | 13 |
| 146 | Voltammetric Studies of Through-Space and Through-Bond Electrostatic Interactions in Alkyl Linked Ferrocene and Benzoaza-15-crown-5 Receptor Molecules in Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10658-10667. | 1.2 | 12 |
| 147 | A facile strategy to synthesize graphitic carbon-encapsulated core-shell nanocomposites derived from CO ₂ as functional materials. <i>Composites Communications</i> , 2020, 22, 100464. | 3.3 | 12 |
| 148 | Molten Electrolyte-Modulated Electrosynthesis of Multi-Anion Mo-Based Lamellar Nanohybrids Derived from Natural Minerals for Boosting Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57870-57880. | 4.0 | 12 |
| 149 | Spectroscopic characterization of DOM and the nitrogen removal mechanism during wastewater reclamation plant. <i>PLoS ONE</i> , 2017, 12, e0187355. | 1.1 | 12 |
| 150 | Separation of dispersed carbon nanotubes from water: Effect of pH and surfactants on the aggregation at oil/water interface. <i>Separation and Purification Technology</i> , 2014, 129, 113-120. | 3.9 | 11 |
| 151 | Self-leveling electrolyte enabled dendrite-free lithium deposition for safer and stable lithium metal batteries. <i>Chemical Engineering Journal</i> , 2021, 419, 129494. | 6.6 | 11 |
| 152 | Directing carbon nanotubes from aqueous phase to o/w interface for heavy metal uptaking. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14201-14208. | 2.7 | 10 |
| 153 | Sulfur doped reduced graphene oxides with enhanced catalytic activity for oxygen reduction via molten salt redox-sulfidation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32653-32657. | 1.3 | 10 |
| 154 | Anion exchange polymer coated graphite granule electrodes for improving the performance of anodes in unbuffered microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 330, 211-218. | 4.0 | 10 |
| 155 | An Efficient Electrolytic Preparation of MAX-Phased Ti-Al-C. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 2770-2778. | 1.0 | 10 |
| 156 | Effects of cyclic voltammetric scan rates, scan time, temperatures and carbon addition on sulphation of Pb disc electrodes in aqueous H ₂ SO ₄ . <i>Materials Technology</i> , 2020, 35, 135-140. | 1.5 | 10 |
| 157 | Transforming CO ₂ into Sulfur-Doped Carbon As a High-Efficiency Persulfate Catalyst for the Degradation of 2,4-Dichlorophenol: Influential Factors, Activation Mechanism, and Regeneration of Catalyst. <i>ACS ES&T Water</i> , 2021, 1, 1796-1806. | 2.3 | 10 |
| 158 | A study on the filming kinetics of corrosion inhibitors in Fe/Na ₂ SO ₄ system using EQCM. <i>Corrosion Science</i> , 2000, 42, 1379-1388. | 3.0 | 9 |
| 159 | Ionic liquids assisted formation of an oil/water emulsion stabilised by a carbon nanotube/ionic liquid composite layer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2535. | 1.3 | 9 |
| 160 | Acclimated sediment microbial fuel cells from a eutrophic lake for the in situ denitrification process. <i>RSC Advances</i> , 2016, 6, 80079-80085. | 1.7 | 9 |
| 161 | Scalable Fabrication of Carbon Nanomaterials by Electrochemical Dual-Electrode Exfoliation of Graphite in Hydroxide Molten Salt. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10010-10017. | 1.8 | 9 |
| 162 | Bionic Structural Design and Electrochemical Manufacture of WC/N-Doped Carbon Hybrids as Efficient ORR Catalyst. <i>Journal of the Electrochemical Society</i> , 2020, 167, 064502. | 1.3 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Zincothermic reduction of silica to silicon: make the impossible possible. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21323-21331. | 5.2 | 9 |
| 164 | Electrochemical Features of Carbon Prepared by Molten Salt Electro-Reduction of CO ₂ . <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 208-214. | 2.2 | 9 |
| 165 | Inert Anode Development for High-Temperature Molten Salts. , 2013, , 171-186. | | 8 |
| 166 | Chemical mixing in molten-salt for preparation of high-performance spinel lithium manganese oxides: Duplication of morphology from nanostructured MnO ₂ precursors to targeting materials. <i>Electrochimica Acta</i> , 2013, 88, 756-765. | 2.6 | 8 |
| 167 | Effect of Doping Al on the High-Temperature Oxidation Behavior of Ni ₈₁ Fe ₁₀ Cu Alloy. <i>Oxidation of Metals</i> , 2020, 93, 417-431. | 1.0 | 8 |
| 168 | Recovery of lead and iodine from spent perovskite solar cells in molten salt. <i>Chemical Engineering Journal</i> , 2022, 447, 137498. | 6.6 | 8 |
| 169 | Treatment of Reused Comprehensive Wastewater in Iron and Steel Industry With Electrosorption Technology. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 37-42. | 1.4 | 7 |
| 170 | Interfacial Synthesis of Free-Standing Asymmetrical PPY-PEDOT Copolymer Film with 3D Network Structure for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1820-A1825. | 1.3 | 7 |
| 171 | Self-Driven Salt-Thermal Reduction Approach for the Synthesis of Cu ₂ O and AgCl@Cu ₂ O Hybrids with Superior Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5651-5660. | 3.2 | 7 |
| 172 | Electrochemical preparation of the Fe-Ni ₃₆ Invar alloy from a mixed oxides precursor in molten carbonates. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 1695-1702. | 2.4 | 6 |
| 173 | Modeling the mass transfer and phase transition of Sn-Sb positive electrode in a liquid metal battery. <i>Journal of Electroanalytical Chemistry</i> , 2022, 909, 116144. | 1.9 | 6 |
| 174 | Computation-guided design and preparation of durable and efficient WC-Mo ₂ C heterojunction for hydrogen evolution reaction. <i>Cell Reports Physical Science</i> , 2022, 3, 100784. | 2.8 | 6 |
| 175 | Effectively removing tetracycline from water by nanoarchitected carbons derived from CO ₂ : Structure and surface chemistry influence. <i>Environmental Research</i> , 2021, 195, 110883. | 3.7 | 5 |
| 176 | Corrosion Behaviors of Iron, Chromium, Nickel, Low-Carbon Steel, and Four Types of Stainless Steels in Liquid Antimony-Tin Alloy. <i>Corrosion</i> , 2021, 77, 1192-1202. | 0.5 | 5 |
| 177 | Integrating preparation of borides and separation of alkaline- and rare-earth ions through an electrochemical alloying approach in molten salts. <i>Separation and Purification Technology</i> , 2022, 285, 120391. | 3.9 | 5 |
| 178 | Anodic carbidation of tantalum in molten CaCl ₂ -CaC ₂ . <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 791-798. | 1.2 | 5 |
| 179 | Corrosion Behaviors of SS310 and IN718 Alloys in Molten Carbonate. <i>Journal of the Electrochemical Society</i> , 2021, 168, 121510. | 1.3 | 5 |
| 180 | Enhanced adsorption of aqueous perchlorate on quaternary ammonium chloride surfactant-modified activated carbon fibers. <i>Desalination and Water Treatment</i> , 2015, 55, 484-495. | 1.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Improvements of energy conversion and storage: general discussion. Faraday Discussions, 2016, 190, 291-306. | 1.6 | 4 |
| 182 | Communicationâ€™Light-Induced Plating of Aluminum on Silicon in a Lewis Acidic Chloroaluminate Ionic Liquid. Journal of the Electrochemical Society, 2018, 165, D381-D383. | 1.3 | 4 |
| 183 | Wetting Kinetics of Molten Carbonate on Carbon. Langmuir, 2021, 37, 10594-10601. | 1.6 | 4 |
| 184 | Chloride impurity induced corrosion of nickel anode and its protection in molten Li ₂ CO ₃ -Na ₂ CO ₃ -K ₂ CO ₃ . Corrosion Science, 2022, 196, 110027. | 3.0 | 4 |
| 185 | Mediating the alloying depth to tune silicon's morphology and lithium-storage performance. Journal of Materials Chemistry A, 2022, 10, 10004-10013. | 5.2 | 4 |
| 186 | Local Basicity Dependent Gas-Liquid Interfacial Corrosion of Nickel Anode and Its Protection in Molten Li ₂ CO ₃ -Na ₂ CO ₃ -K ₂ CO ₃ . Journal of the Electrochemical Society, 2022, 169, 031505. | 1.3 | 4 |
| 187 | Electrolytic Germanium for Calcium Storage. Journal of the Electrochemical Society, 2016, 163, E351-E353. | 1.3 | 3 |
| 188 | A combined oxidation and salt-thermal approach to converting copper scraps to copper oxides as energy storage materials. Journal of Cleaner Production, 2021, 320, 128870. | 4.6 | 3 |
| 189 | Revealing the mechanism of solid-state electrochemical conversion reactions in strong alkaline solutions. Chemical Engineering Journal, 2021, 426, 131307. | 6.6 | 3 |
| 190 | Rearrangement of Oxide Scale on Ni-11Fe-10Cu-6Al Pre-Oxidized at 950 Â°C during Anodic Polarization in Molten Carbonate. Journal of the Electrochemical Society, 2021, 168, 121511. | 1.3 | 3 |
| 191 | Cyclic Voltammetry of Solid TiO ₂ in Molten Alkali Chlorides. ECS Transactions, 2010, 33, 273-276. | 0.3 | 2 |
| 192 | Benefits to energy efficiency and environmental impact: general discussion. Faraday Discussions, 2016, 190, 161-204. | 1.6 | 2 |
| 193 | Coating titanium on carbon steel by in-situ electrochemical reduction of solid TiO ₂ layer. Transactions of Nonferrous Metals Society of China, 2017, 27, 134-140. | 1.7 | 2 |
| 194 | (Invited) Electrochemical Deposition of Carbon Materials in Molten Salts. ECS Transactions, 2017, 80, 791-799. | 0.3 | 2 |
| 195 | Revealing the phase evolution and lithium diffusion in the liquid Sn-Sb electrode. Journal of Electroanalytical Chemistry, 2021, , 115719. | 1.9 | 2 |
| 196 | A combinatorial electrode for highâ€™throughput highâ€™entropy alloy screening. ChemElectroChem, 0, , . | 1.7 | 2 |
| 197 | Electrochemical Preparation of Fe _{0.5} CoNiCuSn _x Medium Entropy Alloys and Their Corrosion Properties. Journal of the Electrochemical Society, 0, , . | 1.3 | 2 |
| 198 | Preparation of MoB ₂ Nanoparticles by Electrolysis of MoS ₂ /B Mixture in Molten NaCl-KCl at 700 Â°C. Journal of the Electrochemical Society, 2021, 168, 123509. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | CO ₂ -Derived Oxygen-Rich Carbon with Enhanced Redox Reactions as a Cathode Material for Aqueous Zn-Ion Batteries. ChemistrySelect, 2022, 7, . | 0.7 | 1 |
| 200 | Developments for nuclear reactors and spent fuels processing: general discussion. Faraday Discussions, 2016, 190, 399-419. | 1.6 | 0 |
| 201 | Advancement in knowledge of phenomena and processes: general discussion. Faraday Discussions, 2016, 190, 525-549. | 1.6 | 0 |
| 202 | (Invited) Electrochemical Deposition of Carbon Materials in Molten Salts. ECS Meeting Abstracts, 2017, , . | 0.0 | 0 |
| 203 | Light-Induced Plating of Aluminum on Silicon in an Ionic Liquid. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 204 | Solidification of LiCl-Li ₂ O oxide reduction salt into sodalite by a spark plasma sintering. Journal of Radioanalytical and Nuclear Chemistry, 0, , . | 0.7 | 0 |
| 205 | Suppressing Carbon Deposition by Introducing SiO ₃ ²⁻ in Molten CaCl ₂ for Efficient Electro-Deoxidation. Journal of the Electrochemical Society, 2022, 169, 062504. | 1.3 | 0 |