

# Zhong-jie Jiang

## List of Publications by Citations

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106  
papers

3,965  
citations

35  
h-index

60  
g-index

111  
ext. papers

4,598  
ext. citations

7.4  
avg, IF

5.95  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 106 | Catalytic properties of silver nanoparticles supported on silica spheres. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1730-5  | 3.4  | 560       |
| 105 | Seed-Mediated Growth Technique for the Preparation of a Silver Nanoshell on a Silica Sphere. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12411-12415  | 3.4  | 187       |
| 104 | Phase evolution of an alpha MnO <sub>2</sub> -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. <i>Nano Energy</i> , <b>2014</b> , 9, 161-167   | 17.1 | 138       |
| 103 | A high-performance anode for lithium ion batteries: Fe <sub>3</sub> O <sub>4</sub> microspheres encapsulated in hollow graphene shells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11847-11856  | 13   | 135       |
| 102 | Cobalt oxide-coated N- and B-doped graphene hollow spheres as bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5877-5889   | 13   | 129       |
| 101 | Amine-functionalized holey graphene as a highly active metal-free catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 441-450  | 13   | 109       |
| 100 | The role of holes in improving the performance of nitrogen-doped holey graphene as an active electrode material for supercapacitor and oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2014</b> , 251, 55-65  | 8.9  | 106       |
| 99  | Wood-Derived Hierarchically Porous Electrodes for High-Performance All-Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1806207  | 15.6 | 102       |
| 98  | A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705155  | 24   | 101       |
| 97  | FeCo Alloy Nanoparticles Coated by an Ultrathin N-Doped Carbon Layer and Encapsulated in Carbon Nanotubes as a Highly Efficient Bifunctional Air Electrode for Rechargeable Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8530-8541 | 8.3  | 90        |
| 96  | Wood-Derived Materials for Advanced Electrochemical Energy Storage Devices. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902255  | 15.6 | 76        |
| 95  | Role of magic-sized clusters in the synthesis of CdSe nanorods. <i>ACS Nano</i> , <b>2010</b> , 4, 1561-72  | 16.7 | 73        |
| 94  | Interaction Induced High Catalytic Activities of CoO Nanoparticles Grown on Nitrogen-Doped Hollow Graphene Microspheres for Oxygen Reduction and Evolution Reactions. <i>Scientific Reports</i> , <b>2016</b> , 6, 27081  | 4.9  | 69        |
| 93  | Hydrothermal Synthesis of Boron and Nitrogen Codoped Hollow Graphene Microspheres with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19398-407   | 9.5  | 67        |
| 92  | High performance of a free-standing sulfonic acid functionalized holey graphene oxide paper as a proton conducting polymer electrolyte for air-breathing direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6494                        | 13   | 67        |
| 91  | Hot and Relaxed Electron Transfer from the CdSe Core and Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4594-4602   | 3.8  | 58        |
| 90  | Phase transition-induced electrochemical performance enhancement of hierarchical CoCO <sub>3</sub> /CoO nanostructure for pseudocapacitor electrode. <i>Nano Energy</i> , <b>2015</b> , 11, 736-745   | 17.1 | 56        |

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| 89 | Effects of carbon content on the electrochemical performance of LiFePO <sub>4</sub> /C core/shell nanocomposites fabricated using FePO <sub>4</sub> /polyaniline as an iron source. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 537, 308-317  | 5.7  | 56 |
| 88 | General synthesis of MFe <sub>2</sub> O <sub>4</sub> /carbon (M = Zn, Mn, Co, Ni) spindles from mixed metal organic frameworks as high performance anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23641-23650  | 13   | 54 |
| 87 | Nitrogen-rich graphene hollow microspheres as anode materials for sodium-ion batteries with super-high cycling and rate performance. <i>Carbon</i> , <b>2018</b> , 130, 574-583  | 10.4 | 53 |
| 86 | Fabrication of nitrogen-doped holey graphene hollow microspheres and their use as an active electrode material for lithium ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19082-91  | 9.5  | 52 |
| 85 | Exploration of the Active Center Structure of Nitrogen-Doped Graphene for Control over the Growth of Co <sub>3</sub> O <sub>4</sub> for a High-Performance Supercapacitor. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 143-153  | 6.1  | 50 |
| 84 | High catalytic performance of nickel foam supported Co <sub>2</sub> P-Ni <sub>2</sub> P for overall water splitting and its structural evolutions during hydrogen/oxygen evolution reactions in alkaline solutions. <i>Journal of Catalysis</i> , <b>2019</b> , 373, 81-92                                       | 7.3  | 49 |
| 83 | Sulfonated Holey Graphene Oxide (SHGO) Filled Sulfonated Poly(ether ether ketone) Membrane: The Role of Holes in the SHGO in Improving Its Performance as Proton Exchange Membrane for Direct Methanol Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20046-20056                  | 9.5  | 47 |
| 82 | Nitrogen-doped Graphene Hollow Microspheres as an Efficient Electrode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 146, 455-463  | 6.7  | 47 |
| 81 | Morphology and crystal phase evolution induced performance enhancement of MnO <sub>2</sub> grown on reduced graphene oxide for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2643-2650   | 13   | 46 |
| 80 | Plasma techniques for the fabrication of polymer electrolyte membranes for fuel cells. <i>Journal of Membrane Science</i> , <b>2014</b> , 456, 85-106  | 9.6  | 44 |
| 79 | Synthesis of monodispersed Pt nanoparticles on plasma processed carbon nanotubes for methanol electro-oxidation reaction. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6720   |      | 43 |
| 78 | Cation exchange synthesis of Ni <sub>x</sub> Co(3x)O <sub>4</sub> (x = 1.25) nanoparticles on aminated carbon nanotubes with high catalytic bifunctionality for the oxygen reduction/evolution reaction toward efficient Zn  air batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9517-9527 | 13   | 41 |
| 77 | Static and Dynamic Emission Quenching in Core/Shell Nanorod Quantum Dots with Hole Acceptors. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19161-19171  | 3.8  | 41 |
| 76 | Self-Templated Synthesis of Hierarchically Porous N-Doped Carbon Derived from Biomass for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13932-13939   | 8.3  | 41 |
| 75 | Synthesis of reduced graphene oxide-montmorillonite nanocomposite and its application in hexavalent chromium removal from aqueous solutions. <i>RSC Advances</i> , <b>2015</b> , 5, 47408-47417  | 3.7  | 40 |
| 74 | Effects of Inhomogeneous Shell Thickness in the Charge Transfer Dynamics of ZnTe/CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 12958-12968  | 3.8  | 40 |
| 73 | A novel NiCo <sub>2</sub> O <sub>4</sub> @GO hybrid composite with core-shell structure as high-performance anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 1095-1102  | 5.7  | 38 |
| 72 | Resonance Raman spectra of wurtzite and zincblende CdSe nanocrystals. <i>Chemical Physics</i> , <b>2013</b> , 422, 272-276   | 2.3  | 37 |

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|----|--|------|----|
| 71 | Reduction of the oxygen reduction reaction overpotential of nitrogen-doped graphene by designing it to a microspherical hollow shape. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14071   | 13   | 35 |
| 70 | Tailoring the thickness of MoSe <sub>2</sub> layer of the hierarchical double-shelled N-doped carbon@MoSe <sub>2</sub> hollow nanoboxes for efficient and stable hydrogen evolution reaction. <i>Journal of Catalysis</i> , <b>2020</b> , 381, 363-373                             | 7.3  | 35 |
| 69 | Amine group induced high activity of highly torn amine functionalized nitrogen-doped graphene as the metal-free catalyst for hydrogen evolution reaction. <i>Carbon</i> , <b>2018</b> , 138, 169-178   | 10.4 | 34 |
| 68 | Facile Assembly of Co-Ni Layered Double Hydroxide Nanoflakes on Carbon Nitride Coated N-doped Graphene Hollow Spheres with High Electrochemical Capacitive Performance. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 21-30  | 6.7  | 34 |
| 67 | Adsorption of arsenic by activated charcoal coated zirconium-manganese nanocomposite: Performance and mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 575, 318-328  | 5.1  | 33 |
| 66 | Electronic coupling induced high performance of N, S-codoped graphene supported CoS <sub>2</sub> nanoparticles for catalytic reduction and evolution of oxygen. <i>Journal of Power Sources</i> , <b>2018</b> , 389, 178-189   | 8.9  | 33 |
| 65 | Sulfonic acid functionalized graphene oxide paper sandwiched in sulfonated poly(ether ether ketone): A proton exchange membrane with high performance for semi-passive direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 16731-16740 | 6.7  | 32 |
| 64 | Preparation of Proton Exchange Membranes by a Plasma Polymerization Method and Application in Direct Methanol Fuel Cells (DMFCs). <i>Plasma Processes and Polymers</i> , <b>2010</b> , 7, 382-389  | 3.4  | 32 |
| 63 | Shell thickness controlled core-shell FeO@CoO nanocrystals as efficient bifunctional catalysts for the oxygen reduction and evolution reactions. <i>Chemical Communications</i> , <b>2019</b> , 55, 525-528  | 5.8  | 30 |
| 62 | Core@shell structured Co-CoO@NC nanoparticles supported on nitrogen doped carbon with high catalytic activity for oxygen reduction reaction.. <i>RSC Advances</i> , <b>2018</b> , 8, 14462-14472   | 3.7  | 26 |
| 61 | Facile synthesis of Co <sub>3</sub> O <sub>4</sub> with different morphologies loaded on amine modified graphene and their application in supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 685, 507-517   | 5.7  | 25 |
| 60 | Hierarchical porous ZnMn <sub>2</sub> O <sub>4</sub> microspheres architected with sub-nanoparticles as a high performance anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 679, 231-238  | 5.7  | 25 |
| 59 | Fabrication of 3-Dimensional Porous Graphene Materials for Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 146, 437-446  | 6.7  | 23 |
| 58 | Stranski-Krastanov Shell Growth in ZnTe/CdSe Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6826-6834  | 3.8  | 23 |
| 57 | High catalytic performance of Pt nanoparticles on plasma treated carbon nanotubes for electrooxidation of ethanol in a basic solution. <i>Applied Surface Science</i> , <b>2011</b> , 257, 2923-2928   | 6.7  | 23 |
| 56 | Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution. <i>Applied Surface Science</i> , <b>2004</b> , 233, 135-140  | 6.7  | 22 |
| 55 | Sulfonated holey graphene oxide paper with SPEEK membranes on its both sides: a sandwiched membrane with high performance for semi-passive direct methanol fuel cells. <i>Electrochimica Acta</i> , <b>2017</b> , 250, 68-76   | 6.7  | 21 |
| 54 | Improvements of electrocatalytic activity of PtRu nanoparticles on multi-walled carbon nanotubes by a H <sub>2</sub> plasma treatment in methanol and formic acid oxidation. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 8662-8673  | 6.7  | 20 |

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| 53 | Optimization and synthesis of plasma polymerized proton exchange membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , <b>2011</b> , 372, 303-313   | 9.6  | 20 |
| 52 | Role of Surface States in the Exciton Dynamics in CdSe Core and Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17519-17528   | 3.8  | 20 |
| 51 | MOF-derived Co nanoparticles embedded in N,S-codoped carbon layer/MWCNTs for efficient oxygen reduction in alkaline media. <i>Ionics</i> , <b>2019</b> , 25, 785-796   | 2.7  | 20 |
| 50 | Zwitterion threaded metal-organic framework membranes for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19547-19554   | 13   | 20 |
| 49 | Defect-Rich, Mesoporous Cobalt Sulfide Hexagonal Nanosheets as Superior Sulfur Hosts for High-Rate, Long-Cycle Rechargeable Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 12259-12268                        | 3.8  | 18 |
| 48 | Sulfonic acid-functionalized mesoporous carbon/silica as efficient catalyst for dehydration of fructose into 5-hydroxymethylfurfural. <i>RSC Advances</i> , <b>2016</b> , 6, 101526-101534   | 3.7  | 18 |
| 47 | Controlled thermal oxidation derived Mn <sub>3</sub> O <sub>4</sub> encapsulated in nitrogen doped carbon as an anode for lithium/sodium ion batteries with enhanced performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126894    | 14.7 | 18 |
| 46 | High performance of yolk-shell structured MnO@nitrogen doped carbon microspheres as lithium ion battery anode materials and their in operando X-ray diffraction study. <i>Electrochimica Acta</i> , <b>2018</b> , 282, 719-727                       | 6.7  | 18 |
| 45 | A novel particle-in-nanoplate architecture of iron nickel phosphide intertwined with carbon nanotubes for efficient water oxidation and high-performance sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 1220-1230 | 5.7  | 15 |
| 44 | Electrochemical Studies of Silver Nanoparticles Tethered on Silica Sphere. <i>Chemistry Letters</i> , <b>2004</b> , 33, 498-499  | 1.7  | 15 |
| 43 | Amino functionalized carbon nanotubes supported CoNi@CoO@NiO core/shell nanoparticles as highly efficient bifunctional catalyst for rechargeable Zn-air batteries. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 374-388       | 6.7  | 15 |
| 42 | More active sites exposed few-layer MoSe <sub>2</sub> supported on nitrogen-doped carbon as highly efficient and durable electrocatalysts for water splitting. <i>Electrochimica Acta</i> , <b>2018</b> , 285, 103-110                               | 6.7  | 14 |
| 41 | Preparation of proton exchange membranes with high performance by a pulsed plasma enhanced chemical vapor deposition technique (PPECVD). <i>RSC Advances</i> , <b>2012</b> , 2, 2743   | 3.7  | 14 |
| 40 | Synthesis and optimization of proton exchange membranes by a pulsed plasma enhanced chemical vapor deposition technique. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11276-11289   | 6.7  | 14 |
| 39 | Surface charge and piezoelectric fields control auger recombination in semiconductor nanocrystals. <i>Nano Letters</i> , <b>2011</b> , 11, 4067-73   | 11.5 | 14 |
| 38 | PREPARATION OF HIGHLY SULFONATED ULTRA-THIN PROTON-EXCHANGE POLYMER MEMBRANES FOR PROTON EXCHANGE MEMBRANE FUEL CELLS. <i>Surface Review and Letters</i> , <b>2009</b> , 16, 297-302   | 1.1  | 14 |
| 37 | Preparation and characteristics of acrylic acid/styrene composite plasma polymerized membranes. <i>Applied Surface Science</i> , <b>2010</b> , 256, 6473-6479  | 6.7  | 14 |
| 36 | Naked Au nanoparticles monodispersed onto multifunctional cellulose nanocrystal-graphene hybrid sheets: towards efficient and sustainable heterogeneous catalysts. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2197-2203                     | 3.6  | 13 |

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|----|--|-----|----|
| 35 | Hierarchically Porous Co and N-Codoped Carbon Hollow Structure Derived from PS@ZIF-67 as an Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , <b>2018</b> , 3, 4831-4837  | 1.8 | 13 |
| 34 | Plus green emission of ZnO nanorods induced by Ce <sup>3+</sup> doping and concentration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2008</b> , 195, 151-155  | 4.7 | 12 |
| 33 | PREPARATION OF ULTRA-THIN CATION EXCHANGE COMPOSITE MEMBRANES BY A NOVEL PLASMA POLYMERIZATION TECHNIQUE. <i>Surface Review and Letters</i> , <b>2007</b> , 14, 1165-1168  | 1.1 | 12 |
| 32 | Fabrication of Silver Nanoshell on Functionalized Silica Sphere through Layer-by-Layer Technique. <i>Chemistry Letters</i> , <b>2003</b> , 32, 668-669   | 1.7 | 12 |
| 31 | High catalytic activity of Co <sub>3</sub> O <sub>4</sub> nanoparticles encapsulated in a graphene supported carbon matrix for oxygen reduction reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 50349-50357   | 3.7 | 11 |
| 30 | Co nanoparticles coupling induced high catalytic activity of nitrogen doped carbon towards hydrogen evolution reaction in acidic/alkaline solutions. <i>Electrochimica Acta</i> , <b>2020</b> , 342, 136076  | 6.7 | 10 |
| 29 | Co-polymerization of polysilicic-zirconium with enhanced coagulation properties for water purification. <i>Separation and Purification Technology</i> , <b>2018</b> , 200, 59-67   | 8.3 | 10 |
| 28 | Spindle-like MOFs-derived porous carbon filled sulfonated poly (ether ether ketone): A high performance proton exchange membrane for direct methanol fuel cells. <i>Journal of Membrane Science</i> , <b>2021</b> , 636, 119585  | 9.6 | 10 |
| 27 | Synthesis of Ultrasmall, Homogeneously Distributed Ni <sub>3</sub> Fe Alloy Nanoparticles on N-Doped Porous Graphene as a Bifunctional Electrocatalyst for Rechargeable Flexible Solid Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12148-12161  | 6.1 | 9  |
| 26 | Atmospheric-Pressure Plasma Jet-Induced Ultrafast Construction of an Ultrathin Nonstoichiometric Nickel Oxide Layer with Mixed Ni <sup>3+</sup> /Ni <sup>2+</sup> Ions and Rich Oxygen Defects as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5059-5069 | 6.1 | 9  |
| 25 | Graphene oxide assisted template-free synthesis of nanoscale splode-like NiCoO hollow microspheres with superior lithium storage properties. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 119-127  | 9.3 | 8  |
| 24 | Significantly enhanced electrochemical performance of a ZnCo <sub>2</sub> O <sub>4</sub> anode in a carbonate based electrolyte with fluoroethylene carbonate. <i>RSC Advances</i> , <b>2017</b> , 7, 18491-18499  | 3.7 | 7  |
| 23 | Origin of the ligand effect in the cobalt catalyzed regioselective hydroboration of 1,3-diene. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 3747-3753   | 3.9 | 7  |
| 22 | Insight into the effects of microstructure and nitrogen doping configuration for hollow graphene spheres on oxygen reduction reaction and sodium-ion storage performance. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 16569-16582  | 6.7 | 7  |
| 21 | Porous carbon-coated LiFePO <sub>4</sub> nanocrystals prepared by in situ plasma-assisted pyrolysis as superior cathode materials for lithium ion batteries. <i>Ionics</i> , <b>2020</b> , 26, 2715-2726   | 2.7 | 7  |
| 20 | Improvement of the catalytic activity of PtRu bimetallic nanoparticles by a plasma treatment in their application of the ethanol electrooxidation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5565  |     | 7  |
| 19 | Understanding the role of graphene intercalation layers on both sides of sandwich structured graphene@MoS <sub>2</sub> @porous graphene anode in promoting sodium storage performance and stability. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 155336  | 5.7 | 6  |
| 18 | Plasma deposition of polymer electrolyte membrane for proton exchange membrane fuel cell (PEMFC) applications. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, S231-S235   | 4.4 | 6  |

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| 17 | Plasma-Polymerized Membranes with High Proton Conductivity for a Micro Semi-Passive Direct Methanol Fuel Cell. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 105-115   | 3.4 | 6 |
| 16 | Predictable spectroscopic properties of type-II ZnTe/CdSe nanocrystals and electron/hole quenching. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5824-5833  | 3.6 | 6 |
| 15 | Sulfurization synthesis of a new anode material for Li-ion batteries: understanding the role of sulfurization in lithium ion conversion reactions and promoting lithium storage performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21270-21279             | 13  | 5 |
| 14 | Phase and Morphology Evolution Induced Lithium Storage Capacity Enhancement of Porous CoO Nanowires Intertwined with Reduced Graphene Oxide Nanosheets. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3679-3687   | 4.3 | 5 |
| 13 | Thickness-dependent Shell Homogeneity of ZnSe/CdSe Core/Shell Nanocrystals and Their Spectroscopic and Electron- and Hole-transfer Dynamics Properties. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 12049-12064   | 3.8 | 4 |
| 12 | In-situ plasma assisted formation of graphitic nanosheet supported N-doped carbon-coated antisite defectless LiFePO <sub>4</sub> as a high-performance cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 864-873          | 5.7 | 4 |
| 11 | Fluorescence properties of systems with multiple Förster transfer pairs. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 4584-93   | 3.6 | 4 |
| 10 | Carbon nitride decorated nitrogen doped graphene hollow spheres loaded Ni/Co and corresponding oxides nanoparticles as reversible air electrode catalysts for rechargeable zinc-air batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 865, 158940               | 5.7 | 4 |
| 9  | Effects of nitrogen-doping structural changes of spherical hollow graphene on the growth of MoS <sub>2+x</sub> nanosheets and the enhanced hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161073                                      | 5.7 | 4 |
| 8  | Parallelepipedally shaped ZnCo <sub>2</sub> O <sub>4</sub> particles with a hierarchical porous structure as an anode for lithium-ion batteries. <i>Ionics</i> , <b>2017</b> , 23, 77-85  | 2.7 | 3 |
| 7  | Accelerated hydrogen evolution reaction in Ni <sub>3</sub> P/MoP <sub>2</sub> /MoO <sub>2</sub> tri-phase composites with rich crystalline interfaces and oxygen vacancies achieved by plasma assisted phosphorization. <i>Journal of Materials Chemistry A</i> ,               | 13  | 3 |
| 6  | The Kirkendall effect-induced formation of FeP@C composites comprising interconnected carbon-coated hollow FeP sub-nanoparticles for efficient alkaline metal storage. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18231-18238                                   | 13  | 3 |
| 5  | A NiFe/NiSe <sub>2</sub> heterojunction bifunctional catalyst rich in oxygen vacancies introduced using dielectric barrier discharge plasma for liquid and flexible all-solid-state rechargeable Zn  air batteries. <i>Journal of Materials Chemistry A</i> ,                   | 13  | 3 |
| 4  | Carbon Nanotubes Supported Metal Nanoparticles for the Applications in Proton Exchange Membrane Fuel Cells (PEMFCs) <b>2011</b> ,   |     | 2 |
| 3  | Hierarchical nanoassembly of Ni/MoS <sub>2</sub> @Ni <sub>12</sub> P <sub>5</sub> /ZnP <sub>2</sub> achieved by a plasma assisted phosphorization with highly improved electrocatalytic activity for overall water splitting. <i>Electrochimica Acta</i> , <b>2022</b> , 140392 | 6.7 | 1 |
| 2  | Unoccupied 3d orbitals make Li-unalloyable transition metals usable as anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17353-17365  | 13  | 0 |
| 1  | Computational understanding of catalyst-controlled borylation of fluoroarenes: directed undirected pathway.. <i>RSC Advances</i> , <b>2020</b> , 10, 19562-19569  | 3.7 |   |