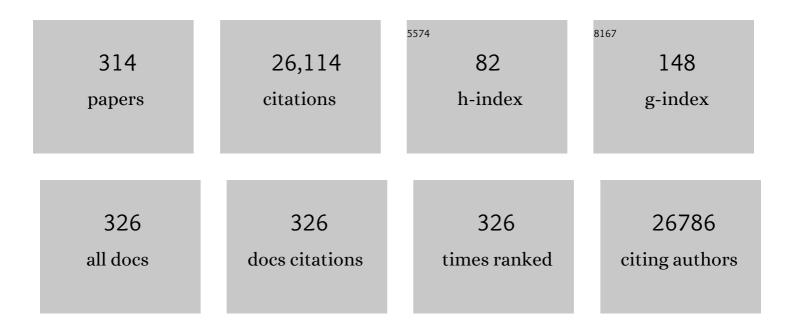
## Zhonghua Zhu

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Ultrathin Iron obalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution<br>Reaction. Advanced Materials, 2017, 29, 1606793.  | 21.0 | 1,144     |
| 2  | Nanoporous Graphitic-C <sub>3</sub> N <sub>4</sub> @Carbon Metal-Free Electrocatalysts for Highly<br>Efficient Oxygen Reduction. Journal of the American Chemical Society, 2011, 133, 20116-20119.                                     | 13.7 | 958       |
| 3  | Nitrogenâ€Enriched Nonporous Carbon Electrodes with Extraordinary Supercapacitance. Advanced<br>Functional Materials, 2009, 19, 1800-1809.   | 14.9 | 720       |
| 4  | Nitrogen-Doped Graphene for Generation and Evolution of Reactive Radicals by Metal-Free Catalysis.<br>ACS Applied Materials & Interfaces, 2015, 7, 4169-4178.  | 8.0  | 677       |
| 5  | Hybrid Graphene and Graphitic Carbon Nitride Nanocomposite: Gap Opening, Electron–Hole Puddle,<br>Interfacial Charge Transfer, and Enhanced Visible Light Response. Journal of the American Chemical<br>Society, 2012, 134, 4393-4397. | 13.7 | 565       |
| 6  | Microstructure and electrochemical double-layer capacitance of carbon electrodes prepared by zinc chloride activation of sugar cane bagasse. Journal of Power Sources, 2010, 195, 912-918.   | 7.8  | 475       |
| 7  | Nanoporous carbon electrode from waste coffee beans for high performance supercapacitors.<br>Electrochemistry Communications, 2008, 10, 1594-1597.   | 4.7  | 435       |
| 8  | A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2016, 28,<br>6442-6448.  | 21.0 | 429       |
| 9  | Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. Nature Catalysis, 2019, 2, 688-695.   | 34.4 | 423       |
| 10 | Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.   | 20.2 | 390       |
| 11 | Phosphate removal from wastewater using red mud. Journal of Hazardous Materials, 2008, 158, 35-42.   | 12.4 | 380       |
| 12 | Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces.<br>Journal of Materials Chemistry A, 2018, 6, 293-312.   | 10.3 | 377       |
| 13 | Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. Progress in<br>Materials Science, 2012, 57, 804-874.  | 32.8 | 372       |
| 14 | Non precious metal catalysts for the PEM fuel cell cathode. International Journal of Hydrogen<br>Energy, 2012, 37, 357-372.  | 7.1  | 331       |
| 15 | Characterisation and environmental application of an Australian natural zeolite for basic dye removal from aqueous solution. Journal of Hazardous Materials, 2006, 136, 946-952.   | 12.4 | 329       |
| 16 | Graphdiyne: a versatile nanomaterial for electronics and hydrogen purification. Chemical Communications, 2011, 47, 11843.  | 4.1  | 329       |
| 17 | The physical and surface chemical characteristics of activated carbons and the adsorption of methylene blue from wastewater. Journal of Colloid and Interface Science, 2005, 284, 440-446.   | 9.4  | 305       |
| 18 | Multifunctional Porous Graphene for Nanoelectronics and Hydrogen Storage: New Properties<br>Revealed by First Principle Calculations. Journal of the American Chemical Society, 2010, 132, 2876-2877.                                  | 13.7 | 304       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. Chemical Communications, 2013, 49, 9914.   | 4.1  | 294       |
| 20 | Uncommon Pyrazoyl-Carboxyl Bifunctional Ligand-Based Microporous Lanthanide Systems: Sorption and Luminescent Sensing Properties. Inorganic Chemistry, 2016, 55, 3952-3959.   | 4.0  | 276       |
| 21 | Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 °C. Advanced<br>Materials, 2017, 29, 1700132.   | 21.0 | 257       |
| 22 | Hybrid Graphene/Titania Nanocomposite: Interface Charge Transfer, Hole Doping, and Sensitization for<br>Visible Light Response. Journal of Physical Chemistry Letters, 2011, 2, 894-899.  | 4.6  | 252       |
| 23 | Excellent performance of mesoporous Co3O4/MnO2 nanoparticles in heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. Applied Catalysis B: Environmental, 2012, 127, 330-335.  | 20.2 | 243       |
| 24 | Effects of acidic treatment of activated carbons on dye adsorption. Dyes and Pigments, 2007, 75, 306-314.   | 3.7  | 238       |
| 25 | Geopolymeric adsorbents from fly ash for dye removal from aqueous solution. Journal of Colloid and Interface Science, 2006, 300, 52-59.   | 9.4  | 228       |
| 26 | Highly defective CeO <sub>2</sub> as a promoter for efficient and stable water oxidation. Journal of<br>Materials Chemistry A, 2015, 3, 634-640.  | 10.3 | 225       |
| 27 | A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Đimensional<br>Metal–Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie -<br>International Edition, 2019, 58, 13565-13572.                        | 13.8 | 205       |
| 28 | Coal ash conversion into effective adsorbents for removal of heavy metals and dyes from wastewater. Journal of Hazardous Materials, 2006, 133, 243-251.   | 12.4 | 191       |
| 29 | Layer structured graphite oxide as a novel adsorbent for humic acid removal from aqueous solution.<br>Journal of Colloid and Interface Science, 2009, 333, 114-119.   | 9.4  | 184       |
| 30 | Catalytic ammonia decomposition over Ru/carbon catalysts: The importance of the structure of carbon support. Applied Catalysis A: General, 2007, 320, 166-172.  | 4.3  | 182       |
| 31 | Ultrasmall Waterâ€Soluble and Biocompatible Magnetic Iron Oxide Nanoparticles as Positive and<br>Negative Dual Contrast Agents. Advanced Functional Materials, 2012, 22, 2387-2393.   | 14.9 | 181       |
| 32 | A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C.<br>Nature Communications, 2017, 8, 13990.   | 12.8 | 180       |
| 33 | Sulfurâ€Modified Oxygen Vacancies in Iron–Cobalt Oxide Nanosheets: Enabling Extremely High Activity<br>of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. Angewandte<br>Chemie - International Edition, 2020, 59, 14664-14670. | 13.8 | 178       |
| 34 | Defectiveâ€Activatedâ€Carbonâ€Supported Mn–Co Nanoparticles as a Highly Efficient Electrocatalyst for<br>Oxygen Reduction. Advanced Materials, 2016, 28, 8771-8778.   | 21.0 | 175       |
| 35 | Dots versus Antidots: Computational Exploration of Structure, Magnetism, and Half-Metallicity in<br>Boronâ^'Nitride Nanostructures. Journal of the American Chemical Society, 2009, 131, 17354-17359.   | 13.7 | 174       |
| 36 | Porous MOF with Highly Efficient Selectivity and Chemical Conversion for CO <sub>2</sub> . ACS<br>Applied Materials & Interfaces, 2017, 9, 17969-17976.   | 8.0  | 173       |

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|----|---|------|-----------|
| 37 | Defectâ€Induced Pt–Co–Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for<br>Boosting Oxygenâ€Involving Electrocatalysis. Advanced Materials, 2019, 31, e1805581.                         | 21.0 | 168       |
| 38 | Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. Nano Research, 2018, 11, 3509-3518.                                       | 10.4 | 167       |
| 39 | Mixed Matrix Membranes with Strengthened MOFs/Polymer Interfacial Interaction and Improved Membrane Performance. ACS Applied Materials & amp; Interfaces, 2014, 6, 5609-5618.                                   | 8.0  | 163       |
| 40 | Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. ACS Applied<br>Materials & Interfaces, 2016, 8, 32041-32049.  | 8.0  | 157       |
| 41 | Lithiumâ€Catalyzed Dehydrogenation of Ammonia Borane within Mesoporous Carbon Framework for<br>Chemical Hydrogen Storage. Advanced Functional Materials, 2009, 19, 265-271.                                     | 14.9 | 156       |
| 42 | Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. Chemical Communications, 2016, 52, 8156-8159.  | 4.1  | 145       |
| 43 | Double-layer capacitance of waste coffee ground activated carbons in an organic electrolyte.<br>Electrochemistry Communications, 2009, 11, 974-977.   | 4.7  | 144       |
| 44 | Calcium-doped lanthanum nickelate layered perovskite and nickel oxide nano-hybrid for highly efficient water oxidation. Nano Energy, 2015, 12, 115-122.   | 16.0 | 144       |
| 45 | An ab initio study on gas sensing properties of graphene and Si-doped graphene. European Physical<br>Journal B, 2011, 81, 475-479.  | 1.5  | 143       |
| 46 | Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation.<br>Journal of Membrane Science, 2016, 505, 61-69.   | 8.2  | 141       |
| 47 | Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. Journal of Materials Chemistry A, 2013, 1, 6350.  | 10.3 | 140       |
| 48 | High activity electrocatalysts from metal–organic framework-carbon nanotube templates for the oxygen reduction reaction. Carbon, 2015, 82, 417-424.   | 10.3 | 140       |
| 49 | Honeycomb Metal–Organic Framework with Lewis Acidic and Basic Bifunctional Sites: Selective<br>Adsorption and CO <sub>2</sub> Catalytic Fixation. ACS Applied Materials & Interfaces, 2018, 10,<br>10965-10973. | 8.0  | 138       |
| 50 | α-MnO2 activation of peroxymonosulfate for catalytic phenol degradation in aqueous solutions.<br>Catalysis Communications, 2012, 26, 144-148.   | 3.3  | 136       |
| 51 | Surface modification of carbon fuels for direct carbon fuel cells. Journal of Power Sources, 2009, 186, 1-9.  | 7.8  | 135       |
| 52 | Evaluation of raw coals as fuels for direct carbon fuel cells. Journal of Power Sources, 2010, 195, 4051-4058.  | 7.8  | 134       |
| 53 | High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells.<br>Journal of Materials Chemistry, 2010, 20, 9619.   | 6.7  | 133       |
| 54 | Metallic and Carbon Nanotube-Catalyzed Coupling of Hydrogenation in Magnesium. Journal of the<br>American Chemical Society, 2007, 129, 15650-15654.   | 13.7 | 131       |

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|----|---|------|-----------|
| 55 | High activity and durability of novel perovskite electrocatalysts for water oxidation. Materials<br>Horizons, 2015, 2, 495-501.   | 12.2 | 128       |
| 56 | Mixed-Matrix Membranes with Metal–Organic Framework-Decorated CNT Fillers for Efficient<br>CO <sub>2</sub> Separation. ACS Applied Materials & Interfaces, 2015, 7, 14750-14757.  | 8.0  | 124       |
| 57 | Efficient light hydrocarbon separation and CO <sub>2</sub> capture and conversion in a stable MOF with oxalamide-decorated polar tubes. Chemical Communications, 2017, 53, 12970-12973.   | 4.1  | 121       |
| 58 | Plasmaâ€Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt<br>Diselenide for Enhanced Water Oxidation. Angewandte Chemie - International Edition, 2018, 57,<br>16421-16425.                        | 13.8 | 120       |
| 59 | Characteristics of coal fly ash and adsorption application. Fuel, 2008, 87, 3469-3473.  | 6.4  | 119       |
| 60 | Activated carbon monoliths with hierarchical pore structure from tar pitch and coal powder for the adsorption of CO2, CH4 and N2. Carbon, 2016, 103, 115-124.   | 10.3 | 116       |
| 61 | Novel B-site ordered double perovskite<br>Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6â^`x</sub> for highly<br>efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875. | 30.8 | 112       |
| 62 | An Uncommon Carboxylâ€Decorated Metal–Organic Framework with Selective Gas Adsorption and<br>Catalytic Conversion of CO <sub>2</sub> . Chemistry - A European Journal, 2018, 24, 865-871.   | 3.3  | 112       |
| 63 | Enhanced gas permeability by fabricating functionalized multi-walled carbon nanotubes and polyethersulfone nanocomposite membrane. Separation and Purification Technology, 2011, 78, 76-82.   | 7.9  | 109       |
| 64 | Cobalt Oxide and Cobaltâ€Graphitic Carbon Core–Shell Based Catalysts with Remarkably High Oxygen<br>Reduction Reaction Activity. Advanced Science, 2016, 3, 1600060.  | 11.2 | 109       |
| 65 | In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced CO2 adsorption. Dalton Transactions, 2014, 43, 7028.  | 3.3  | 108       |
| 66 | A single boron atom doped boron nitride edge as a metal-free catalyst for N <sub>2</sub> fixation.<br>Physical Chemistry Chemical Physics, 2019, 21, 1110-1116.   | 2.8  | 107       |
| 67 | Factors That Determine the Performance of Carbon Fuels in the Direct Carbon Fuel Cell. Industrial<br>& Engineering Chemistry Research, 2008, 47, 9670-9677.   | 3.7  | 106       |
| 68 | C-BN Single-Walled Nanotubes from Hybrid Connection of BN/C Nanoribbons: Prediction by <i>ab<br/>initio</i> Density Functional Calculations. Journal of the American Chemical Society, 2009, 131,<br>1682-1683.                           | 13.7 | 106       |
| 69 | Effects of acid treatments of carbon on N2O and NO reduction by carbon-supported copper catalysts.<br>Carbon, 2000, 38, 451-464.  | 10.3 | 103       |
| 70 | Novel cage-like MOF for gas separation, CO <sub>2</sub> conversion and selective adsorption of an organic dye. Inorganic Chemistry Frontiers, 2020, 7, 746-755.   | 6.0  | 99        |
| 71 | Solidâ€Oxide Fuel Cells: Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating<br>Below 500 °C (Adv. Mater. 48/2017). Advanced Materials, 2017, 29, 1770345.  | 21.0 | 97        |
| 72 | Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen<br>Separation. Journal of Physical Chemistry C, 2012, 116, 13264-13270.   | 3.1  | 96        |

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|----|--|------|-----------|
| 73 | Nanosheets Co <sub>3</sub> O <sub>4</sub> Interleaved with Graphene for Highly Efficient Oxygen<br>Reduction. ACS Applied Materials & Interfaces, 2015, 7, 21373-21380.  | 8.0  | 96        |
| 74 | Effects of nitrogen doping on the structure of carbon nanotubes (CNTs) and activity of Ru/CNTs in ammonia decomposition. Chemical Engineering Journal, 2010, 156, 404-410.   | 12.7 | 95        |
| 75 | Humic acid adsorption on fly ash and its derived unburned carbon. Journal of Colloid and Interface<br>Science, 2007, 315, 41-46.   | 9.4  | 93        |
| 76 | Synthesis and Structure Characterization of Chromium Oxide Prepared by Solid Thermal Decomposition Reaction. Journal of Physical Chemistry B, 2006, 110, 178-183.  | 2.6  | 92        |
| 77 | A Comparative Study of Oxygen Reduction Reaction on Bi- and La-Doped SrFeO[sub 3â~î] Perovskite<br>Cathodes. Journal of the Electrochemical Society, 2011, 158, B132.  | 2.9  | 92        |
| 78 | Sulfurâ€Modified Oxygen Vacancies in Iron–Cobalt Oxide Nanosheets: Enabling Extremely High Activity<br>of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. Angewandte<br>Chemie, 2020, 132, 14772-14778. | 2.0  | 89        |
| 79 | Halloysite-Nanotube-Supported Ru Nanoparticles for Ammonia Catalytic Decomposition to Produce<br>CO <sub><i>x</i></sub> -Free Hydrogen. Energy & Fuels, 2011, 25, 3408-3416.   | 5.1  | 88        |
| 80 | Significant improvement of surface area and CO2 adsorption of Cu–BTC via solvent exchange activation. RSC Advances, 2013, 3, 17065.  | 3.6  | 88        |
| 81 | First principle studies of zigzag AlN nanoribbon. Chemical Physics Letters, 2009, 469, 183-185.  | 2.6  | 86        |
| 82 | Solvent or Temperature Induced Diverse Coordination Polymers of Silver(I) Sulfate and Bipyrazole<br>Systems: Syntheses, Crystal Structures, Luminescence, and Sorption Properties. Inorganic Chemistry,<br>2013, 52, 14018-14027.          | 4.0  | 86        |
| 83 | Metal–support interface of a novel Ni–CeO2 catalyst for dry reforming of methane. Catalysis<br>Communications, 2013, 31, 25-31.  | 3.3  | 86        |
| 84 | Investigation of Gas Permeability in Carbon Nanotube (CNT)â^'Polymer Matrix Membranes via Modifying<br>CNTs with Functional Groups/Metals and Controlling Modification Location. Journal of Physical<br>Chemistry C, 2011, 115, 6661-6670. | 3.1  | 83        |
| 85 | A new cathode for solid oxide fuel cells capable of in situ electrochemical regeneration. Journal of<br>Materials Chemistry, 2011, 21, 15343.  | 6.7  | 81        |
| 86 | Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen<br>Reduction. Chemistry of Materials, 2011, 23, 4193-4198.  | 6.7  | 80        |
| 87 | A density functional theory study on CO2 capture and activation by graphene-like boron nitride with boron vacancy. Catalysis Today, 2011, 175, 271-275.  | 4.4  | 80        |
| 88 | Structural, electrical and electrochemical characterizations of SrNb0.1Co0.9O3â~î^ as a cathode of solid oxide fuel cells operating below 600°C. International Journal of Hydrogen Energy, 2010, 35, 1356-1366.                            | 7.1  | 78        |
| 89 | Insights into Hydrogen Atom Adsorption on and the Electrochemical Properties of<br>Nitrogen-Substituted Carbon Materials. Journal of Physical Chemistry B, 2005, 109, 16744-16749.   | 2.6  | 77        |
| 90 | Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas<br>diffusion electrode for high-efficiency CO2 reduction to formate. Applied Catalysis B: Environmental,<br>2021, 286, 119945.                  | 20.2 | 77        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | A comparative study of chemical treatment by FeCl <sub>3</sub> , MgCl <sub>2</sub> , and<br>ZnCl <sub>2</sub> on microstructure, surface chemistry, and double-layercapacitance of carbons<br>from waste biomass. Journal of Materials Research, 2010, 25, 1451-1459. | 2.6  | 76        |
| 92  | Nano-Biocatalysts of Cyt <i>c</i> @ZIF-8/GO Composites with High Recyclability via a de Novo<br>Approach. ACS Applied Materials & Interfaces, 2018, 10, 16066-16076.  | 8.0  | 74        |
| 93  | Effect of ionic liquids (ILs) on MOFs/polymer interfacial enhancement in mixed matrix membranes.<br>Journal of Membrane Science, 2019, 587, 117157.   | 8.2  | 74        |
| 94  | Hydrogen diffusion and effect of grain size on hydrogenation kinetics in magnesium hydrides. Journal of Materials Research, 2008, 23, 336-340.  | 2.6  | 72        |
| 95  | Modification of Coal as a Fuel for the Direct Carbon Fuel Cell. Journal of Physical Chemistry A, 2010, 114, 3855-3862.  | 2.5  | 72        |
| 96  | A Cationic MOF with High Uptake and Selectivity for CO <sub>2</sub> due to Multiple<br>CO <sub>2</sub> â€Philic Sites. Chemistry - A European Journal, 2015, 21, 16525-16531.   | 3.3  | 72        |
| 97  | Synthesis and characterization of three amino-functionalized metal–organic frameworks based on the 2-aminoterephthalic ligand. Dalton Transactions, 2015, 44, 8190-8197.  | 3.3  | 72        |
| 98  | Electric Power and Synthesis Gas Coâ€generation From Methane with Zero Waste Gas Emission.<br>Angewandte Chemie - International Edition, 2011, 50, 1792-1797.   | 13.8 | 71        |
| 99  | A New Porous MOF with Two Uncommon Metal–Carboxylate–Pyrazolate Clusters and High<br>CO <sub>2</sub> /N <sub>2</sub> Selectivity. Inorganic Chemistry, 2015, 54, 1841-1846.   | 4.0  | 71        |
| 100 | Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. Catalysis Reviews - Science and Engineering, 2021, 63, 1-67.  | 12.9 | 71        |
| 101 | Empirical Analysis of the Contributions of Mesopores and Micropores to the Double-Layer<br>Capacitance of Carbons. Journal of Physical Chemistry C, 2009, 113, 19335-19343.   | 3.1  | 70        |
| 102 | Evaluation and optimization of Bi1â^'xSrxFeO3â^'î´ perovskites as cathodes of solid oxide fuel cells.<br>International Journal of Hydrogen Energy, 2011, 36, 3179-3186.   | 7.1  | 70        |
| 103 | Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient<br>CO <sub>2</sub> Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied<br>Materials & Interfaces, 2020, 12, 21670-21681.                         | 8.0  | 69        |
| 104 | Electronic structure methods applied to gas–carbon reactions. Carbon, 2003, 41, 635-658.  | 10.3 | 68        |
| 105 | H <sub>2</sub> purification by functionalized graphdiyne – role of nitrogen doping. Journal of<br>Materials Chemistry A, 2015, 3, 6767-6771.  | 10.3 | 67        |
| 106 | Gate opening effect of zeolitic imidazolate framework ZIF-7 for adsorption of CH <sub>4</sub> and CO <sub>2</sub> from N <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 21389-21399.   | 10.3 | 67        |
| 107 | Multiple Functions of Gas Separation and Vapor Adsorption in a New MOF with Open Tubular<br>Channels. ACS Applied Materials & Interfaces, 2021, 13, 4102-4109.  | 8.0  | 67        |
| 108 | Catalytic ammonia decomposition over CMK-3 supported Ru catalysts: Effects of surface treatments of supports. Carbon, 2007, 45, 11-20.  | 10.3 | 66        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 109 | Hierarchical CO2-protective shell for highly efficient oxygen reduction reaction. Scientific Reports, 2012, 2, 327.   | 3.3  | 66        |
| 110 | Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. Journal of Materials Chemistry A, 2016, 4, 6084-6090.  | 10.3 | 65        |
| 111 | A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Dimensional<br>Metal–Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie, 2019,<br>131, 13699-13706.   | 2.0  | 64        |
| 112 | Efficient C <sub>2</sub> H <i><sub>n</sub></i> Hydrocarbons and VOC Adsorption and Separation in an MOF with Lewis Basic and Acidic Decorated Active Sites. ACS Applied Materials & Interfaces, 2020, 12, 41785-41793.  | 8.0  | 64        |
| 113 | A density functional theory study of CO2 and N2 adsorption on aluminium nitride single walled nanotubes. Journal of Materials Chemistry, 2010, 20, 10426.   | 6.7  | 62        |
| 114 | Electrocatalytically Switchable CO <sub>2</sub> Capture: First Principle Computational Exploration of Carbon Nanotubes with Pyridinic Nitrogen. ChemSusChem, 2014, 7, 435-441.  | 6.8  | 62        |
| 115 | Predicting a new class of metal-organic frameworks as efficient catalyst for bi-functional oxygen evolution/reduction reactions. Journal of Catalysis, 2018, 367, 206-211.  | 6.2  | 61        |
| 116 | Comparative Study of Li, Na, and K Adsorptions on Graphite by Using ab Initio Method. Langmuir, 2004, 20, 10751-10755.  | 3.5  | 60        |
| 117 | Defect engineering and characterization of active sites for efficient electrocatalysis. Nanoscale, 2021, 13, 3327-3345.   | 5.6  | 60        |
| 118 | Composite cathodes for protonic ceramic fuel cells: Rationales and materials. Composites Part B:<br>Engineering, 2022, 238, 109881.   | 12.0 | 59        |
| 119 | Catalytic Ammonia Decomposition over Industrial-Waste-Supported Ru Catalysts. Environmental<br>Science & Technology, 2007, 41, 3758-3762.   | 10.0 | 58        |
| 120 | Ordered Mesoporous Carbons Enriched with Nitrogen: Application to Hydrogen Storage. Journal of Physical Chemistry C, 2010, 114, 8639-8645.  | 3.1  | 58        |
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