

# Lei Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

3,514  
citations

117625

34  
h-index

168389

53  
g-index

112  
all docs

112  
docs citations

112  
times ranked

2883  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Low-cost marine biomass carbon as a high-performance electrocatalyst for vanadium redox flow battery. <i>International Journal of Green Energy</i> , 2022, 19, 1357-1366.  | 3.8  | 4         |
| 2  | Effect of LiF on the ion conductivity and sinterability of (Al <sub>0.2</sub> Zr <sub>0.8</sub> ) <sub>20</sub> /19Nb(PO <sub>4</sub> ) <sub>3</sub> solid electrolyte. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156337.  | 5.5  | 2         |
| 3  | Recent advances in metals and metal oxides as catalysts for vanadium redox flow battery: Properties, structures, and perspectives. <i>Journal of Materials Science and Technology</i> , 2021, 75, 96-109.  | 10.7 | 95        |
| 4  | An impedimetric NH <sub>3</sub> sensor based on YSZ and spinel-type oxide with $\hat{I}$ response. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128874.   | 7.8  | 9         |
| 5  | Recent advances of NASICON-Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as cathode for sodium-ion batteries: Synthesis, modifications, and perspectives. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159060.   | 5.5  | 60        |
| 6  | Zirconium boride as a novel negative catalyst for vanadium redox flow battery. <i>Ceramics International</i> , 2021, 47, 20276-20285.  | 4.8  | 18        |
| 7  | Synergistic Catalysis of SnO <sub>2</sub> /Reduced Graphene Oxide for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> and V <sub>2</sub> <sup>+</sup> /V <sub>3</sub> <sup>+</sup> Redox Reactions. <i>Molecules</i> , 2021, 26, 5085.  | 3.8  | 7         |
| 8  | Nanostructured N-doped carbon materials derived from expandable biomass with superior electrocatalytic performance towards V <sub>2</sub> <sup>+</sup> /V <sub>3</sub> <sup>+</sup> redox reaction for vanadium redox flow battery. <i>Journal of Energy Chemistry</i> , 2021, 59, 706-714.                                | 12.9 | 72        |
| 9  | Influence of rare-earth doping on the phase composition, sinterability, chemical stability and conductivity of BaHf <sub>0.8</sub> Ln <sub>0.2</sub> O <sub>3-<math>\hat{r}</math></sub> (Ln = Yb, Y, Dy, Gd) proton conductors. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35678-35691.                  | 7.1  | 13        |
| 10 | Layered perovskite oxides Lan+1NinO <sub>3n+1</sub> (n = 1, 2, and 3) for detecting ammonia under high temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130289.  | 7.8  | 5         |
| 11 | Electrochemical exsolution of Ag nanoparticles from AgNbO <sub>3</sub> sensing electrode for enhancing the performance of mixed potential type NH <sub>3</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130296.  | 7.8  | 11        |
| 12 | Structural design and interfacial characteristics endow NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> coated zinc anode with high capacity and better cycling stability. <i>Surface and Coatings Technology</i> , 2021, 425, 127699.   | 4.8  | 7         |
| 13 | High performance solid electrolyte-based NO <sub>2</sub> sensor based on Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> derived from metal-organic framework. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127173.   | 7.8  | 22        |
| 14 | Encapsulation of N-doped carbon layer via in situ dopamine polymerization endows nanostructured NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> with superior lithium storage performance. <i>Ceramics International</i> , 2020, 46, 4402-4409.  | 4.8  | 16        |
| 15 | Endowing electrospun carbon fiber with excellent electrocatalytic properties towards VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox reaction for vanadium redox flow battery by in situ iridium decoration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124137. | 4.7  | 19        |
| 16 | Synthesis and characterization of Ba <sup>2+</sup> and W <sup>6+</sup> co-doped apatite-type lanthanum silicate electrolytes. <i>Ceramics International</i> , 2020, 46, 5420-5429.   | 4.8  | 13        |
| 17 | Recent advances in electrospun carbon fiber electrode for vanadium redox flow battery: Properties, structures, and perspectives. <i>Carbon</i> , 2020, 170, 527-542.   | 10.3 | 60        |
| 18 | Electrospun carbon nanofiber inlaid with tungsten carbide nanoparticle by in-situ carbothermal reaction as bifunctional electrode for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2020, 362, 137178.   | 5.2  | 13        |

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|----|---|-----|-----------|
| 19 | Oxygen vacancy and size controlling endow tin dioxide with remarked electrocatalytic performances towards vanadium redox reactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125073.                                    | 4.7 | 6         |
| 20 | Meliorating the sodium storage properties of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C by rational structural design. <i>Ionics</i> , 2020, 26, 2891-2898.   | 2.4 | 1         |
| 21 | Promoting the performances of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> electrode for sodium ion battery by reasonable crystal design and surface modification. <i>Ceramics International</i> , 2020, 46, 19452-19459.                                      | 4.8 | 13        |
| 22 | Impedancemetric-type NO <sub>2</sub> sensor based on non-stoichiometric perovskite type sensing electrode using multiple response signals. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128551.  | 7.8 | 14        |
| 23 | Application of porous biomass carbon materials in vanadium redox flow battery. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 434-443.  | 9.4 | 56        |
| 24 | Crystal doping of K ion on Na site raises the electrochemical performance of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C anode for sodium-ion battery. <i>Ionics</i> , 2020, 26, 3387-3394.  | 2.4 | 9         |
| 25 | One-step activation of high-graphitization N-doped porous biomass carbon as advanced catalyst for vanadium redox flow battery. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 216-226.  | 9.4 | 52        |
| 26 | Thiourea-Grafted Graphite Felts as Positive Electrode for Vanadium Redox Flow Battery. <i>Frontiers in Chemistry</i> , 2020, 8, 626490.   | 3.6 | 5         |
| 27 | Mixed potential NH <sub>3</sub> sensor based on La <sub>0.95</sub> K <sub>0.05</sub> Si <sub>5</sub> Al <sub>1</sub> O <sub>26.45</sub> electrolyte and Ag doped BiVO <sub>4</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128206. | 7.8 | 21        |
| 28 | K doping on Li site enables LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C excellent lithium storage performance. <i>Solid State Ionics</i> , 2019, 341, 115036.  | 2.7 | 7         |
| 29 | In situ exsolution of PdO nanoparticles from non-stoichiometric LaFePd <sub>0.05</sub> O <sub>3+δ</sub> electrode for impedancemetric NO <sub>2</sub> sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126827.   | 7.8 | 26        |
| 30 | Enhancing NH <sub>3</sub> sensing performance of mixed potential type sensors by chemical exsolution of Ag nanoparticle on AgNbO <sub>3</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126854.                                      | 7.8 | 28        |
| 31 | A novel mixed-potential type NH <sub>3</sub> sensor based on Ag nanoparticles decorated AgNbO <sub>3</sub> sensing electrode synthesized by demixing method. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127146.  | 7.8 | 17        |
| 32 | Endowing LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C with excellent electrochemical performances through rational crystal doping. <i>Ceramics International</i> , 2019, 45, 23406-23410.   | 4.8 | 4         |
| 33 | Mixed-potential type NH <sub>3</sub> sensor based on La <sub>10</sub> Si <sub>5.5</sub> Al <sub>0.5</sub> O <sub>27</sub> electrolyte and CuV <sub>2</sub> O <sub>6</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 206-215.         | 7.8 | 22        |
| 34 | Electrocatalytic performance of TiO <sub>2</sub> with different phase state towards V <sup>2+</sup> /V <sup>3+</sup> reaction for vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2019, 43, 4473-4482.                               | 4.5 | 17        |
| 35 | ZrO <sub>2</sub> nanoparticle embedded carbon nanofibers by electrospinning technique as advanced negative electrode materials for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2019, 309, 166-176.  | 5.2 | 96        |
| 36 | Preparation of Carbon Nanosheet by Molten Salt Route and Its Application in Catalyzing VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> Redox Reaction. <i>Journal of the Electrochemical Society</i> , 2019, 166, A953-A959.                             | 2.9 | 30        |

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|----|--|------|-----------|
| 37 | Synthesis and performance of a graphene decorated NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C anode for aqueous lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 791, 176-183.   | 5.5  | 63        |
| 38 | Electrospun nitrogen-doped carbon nanofiber as negative electrode for vanadium redox flow battery. <i>Applied Surface Science</i> , 2019, 469, 423-430.  | 6.1  | 88        |
| 39 | Enhanced lithium storage performance of nanostructured NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> decorated by nitrogen-doped carbon. <i>Electrochimica Acta</i> , 2019, 294, 226-232.  | 5.2  | 66        |
| 40 | KHCO <sub>3</sub> activated carbon microsphere as excellent electrocatalyst for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox couple for vanadium redox flow battery. <i>Journal of Energy Chemistry</i> , 2019, 29, 103-110.                             | 12.9 | 43        |
| 41 | Sulfonated Carbon Nanotubes as Superior Catalysts towards V <sup>3+</sup> /V <sup>2+</sup> Redox Reaction for Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A932-A938.   | 2.9  | 18        |
| 42 | Enhanced glucose sensing based on a novel composite Co <sup>II</sup> -MOF/Acb modified electrode. <i>Dalton Transactions</i> , 2018, 47, 3872-3879.  | 3.3  | 35        |
| 43 | Boosting the electrocatalytic performance of carbon nanotubes toward V(V)/V(IV) reaction by sulfonation treatment. <i>International Journal of Energy Research</i> , 2018, 42, 1625-1634.  | 4.5  | 13        |
| 44 | Enhanced sensing performance of mixed potential ammonia gas sensor based on Bi <sub>0.95</sub> Ni <sub>0.05</sub> VO <sub>3.975</sub> by silver. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 668-676.  | 7.8  | 26        |
| 45 | Electrocatalytic activity of cobalt phosphide-modified graphite felt toward VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox reaction. <i>Applied Surface Science</i> , 2018, 436, 1030-1037.  | 6.1  | 17        |
| 46 | A novel electrochemical sensor for glucose detection based on Ag@ZIF-67 nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 852-860.  | 7.8  | 227       |
| 47 | Improvement of Al <sup>3+</sup> ion conductivity by F doping of (Al <sub>0.2</sub> Zr <sub>0.8</sub> ) <sub>4</sub> /3.8NbP <sub>3</sub> O <sub>12</sub> solid electrolyte for mixed potential NH <sub>3</sub> sensors. <i>Ceramics International</i> , 2018, 44, 8983-8991. | 4.8  | 8         |
| 48 | Impedancemetric NO <sub>2</sub> sensor based on Pd doped perovskite oxide sensing electrode conjunction with phase angle response. <i>Electrochimica Acta</i> , 2018, 265, 411-418.  | 5.2  | 20        |
| 49 | N,P co-doped carbon microsphere as superior electrocatalyst for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox reaction. <i>Electrochimica Acta</i> , 2018, 259, 122-130.  | 5.2  | 72        |
| 50 | Boosting the performance of LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C anode for aqueous lithium ion battery by Sn doping on Ti sites. <i>Journal of Alloys and Compounds</i> , 2018, 731, 32-38.  | 5.5  | 66        |
| 51 | Carbon layer-exfoliated, wettability-enhanced, SO <sub>3</sub> H-functionalized carbon paper: A superior positive electrode for vanadium redox flow battery. <i>Carbon</i> , 2018, 127, 297-304.   | 10.3 | 100       |
| 52 | Impact of Fe doping on performance of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C anode for aqueous lithium ion battery. <i>Solid State Ionics</i> , 2018, 327, 123-128.  | 2.7  | 26        |
| 53 | Improved lithium storage performance of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C composite connected by carbon nanotubes. <i>Solid State Ionics</i> , 2018, 325, 189-195.  | 2.7  | 12        |
| 54 | N-doped carbon coated LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as superior anode using PANi as carbon and nitrogen bi-sources for aqueous lithium ion battery. <i>Electrochimica Acta</i> , 2018, 279, 279-288.   | 5.2  | 72        |

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|----|--|------|-----------|
| 55 | Phosphorus Doped Multi-Walled Carbon Nanotubes: An Excellent Electrocatalyst for the $\text{VO}^{2+}/\text{VO}^{2+}$ Redox Reaction. <i>ChemElectroChem</i> , 2018, 5, 2464-2474.  | 3.4  | 18        |
| 56 | Effect of Sn doping on the electrochemical performance of $\text{NaTi}_2(\text{PO}_4)_3/\text{C}$ composite. <i>Ceramics International</i> , 2018, 44, 15646-15652.  | 4.8  | 30        |
| 57 | Improvement of sinterability of $\text{BaZr}_{0.8}\text{Y}_{0.2}\text{O}_{3-\delta}$ for $\text{H}_2$ separation using $\text{Li}_2\text{O}/\text{ZnO}$ dual-sintering aid. <i>Ceramics International</i> , 2018, 44, 15935-15943.   | 4.8  | 23        |
| 58 | Fungi-Derived, Functionalized, and Wettability-Improved Porous Carbon Materials: An Excellent Electrocatalyst toward $\text{VO}^{2+}/\text{VO}^{2+}$ Redox Reaction for Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1813-A1821. | 2.9  | 14        |
| 59 | Enhanced selective performance of mixed potential ammonia gas sensor by Au nanoparticles decorated $\text{CeVO}_4$ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 219-228.   | 7.8  | 56        |
| 60 | Flexible electrospun carbon nanofiber embedded with $\text{TiO}_2$ as excellent negative electrode for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2018, 281, 601-610.   | 5.2  | 115       |
| 61 | Improving the electrocatalytic performance of carbon nanotubes for $\text{VO}_2/\text{VO}_2^+$ redox reaction by KOH activation. <i>Applied Surface Science</i> , 2017, 401, 106-113.  | 6.1  | 46        |
| 62 | An enhanced sensitivity towards $\text{H}_2\text{O}_2$ reduction based on a novel Cu metal-organic framework and acetylene black modified electrode. <i>Electrochimica Acta</i> , 2017, 230, 324-332.  | 5.2  | 72        |
| 63 | Hierarchically 3D porous films electrochemically constructed on gas-liquid-solid three-phase interface for energy application. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9488-9513.   | 10.3 | 76        |
| 64 | $\text{HF}/\text{H}_2\text{O}_2$ treated graphite felt as the positive electrode for vanadium redox flow battery. <i>Applied Surface Science</i> , 2017, 423, 111-118.   | 6.1  | 60        |
| 65 | High-temperature $\text{NO}_2$ sensor based on aluminum/indium co-doped lanthanum silicate oxyapatite electrolyte and cobalt-free perovskite oxide sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 629-640.   | 7.8  | 13        |
| 66 | Synthesis and electrochemical properties of Na-doped $\text{LiTi}_2(\text{PO}_4)_3$ @carbon composite as anode for aqueous lithium ion batteries. <i>Ceramics International</i> , 2017, 43, 11481-11487.   | 4.8  | 25        |
| 67 | Graphite felt electrode modified by square wave potential pulse for vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2017, 41, 439-447.  | 4.5  | 28        |
| 68 | Mixed-potential type $\text{NH}_3$ sensor based on $\text{TiO}_2$ sensing electrode with a phase transformation effect. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 962-970.   | 7.8  | 41        |
| 69 | Electrochemically promoted electroless nickel-phosphorous plating on titanium substrate. <i>Applied Surface Science</i> , 2017, 392, 912-919.  | 6.1  | 40        |
| 70 | Microstructure and electrical conductivity of alkaline elements doped apatite-type $\text{La}_{10}\text{Si}_6\text{O}_{27}$ electrolytes. <i>Ceramics International</i> , 2017, 43, 289-295.   | 4.8  | 11        |
| 71 | Advanced $\text{LiTi}_2(\text{PO}_4)_3/\text{C}$ anode by incorporation of carbon nanotubes for aqueous lithium-ion batteries. <i>Ionics</i> , 2017, 23, 575-583.  | 2.4  | 32        |
| 72 | Modified carbon cloth as positive electrode with high electrochemical performance for vanadium redox flow batteries. <i>Journal of Energy Chemistry</i> , 2016, 25, 720-725.   | 12.9 | 29        |

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|----|---|-----|-----------|
| 73 | Advanced LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @N-doped carbon anode for aqueous lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 222, 1491-1500.  | 5.2 | 52        |
| 74 | Synthesis and characterization of Al <sup>3+</sup> and M (M = W <sup>6+</sup> , In <sup>3+</sup> , Nb <sup>5+</sup> , Mg <sup>2+</sup> ) co-doped lanthanum silicate oxy-apatite electrolytes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11340-11350.   | 7.1 | 13        |
| 75 | Preparation of dual-phase composite BaCe <sub>0.8</sub> Y <sub>0.2</sub> O <sub>3</sub> /Ce <sub>0.8</sub> Y <sub>0.2</sub> O <sub>2</sub> and its application for hydrogen permeation. <i>Ceramics International</i> , 2016, 42, 6391-6398.  | 4.8 | 21        |
| 76 | An Impedancemetric NH <sub>3</sub> Sensor Based on La <sub>10</sub> Si <sub>5</sub> MgO <sub>26</sub> Electrolyte and Nano-Structured CoWO <sub>4</sub> Sensing Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, B1-B7.  | 2.9 | 17        |
| 77 | Mixed-potential type NO <sub>2</sub> sensor based on La <sub>10</sub> Si <sub>6</sub> O <sub>27</sub> electrolyte and WO <sub>3</sub> sensing electrode with different morphologies. <i>Ceramics International</i> , 2016, 42, 9712-9716.   | 4.8 | 11        |
| 78 | A novel mixed potential NH <sub>3</sub> sensor based on TiO <sub>2</sub> @WO <sub>3</sub> core-shell composite sensing electrode. <i>Electrochimica Acta</i> , 2016, 193, 302-310.  | 5.2 | 74        |
| 79 | Mixed potential NH <sub>3</sub> sensor based on Mg-doped lanthanum silicate oxyapatite. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 356-363.  | 7.8 | 41        |
| 80 | Ammonia sensing characteristics of La <sub>10</sub> Si <sub>5</sub> MgO <sub>26</sub> -based sensors using In <sub>2</sub> O <sub>3</sub> sensing electrode with different morphologies and CuO reference electrode. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 716-724.                                     | 7.8 | 46        |
| 81 | A novel cobalt(II) metal-organic framework based on an unprecedented ribbon-shaped secondary building unit. <i>Inorganic Chemistry Communication</i> , 2016, 65, 45-48.   | 3.9 | 2         |
| 82 | Ammonia sensing characteristics of La <sub>10</sub> Si <sub>5</sub> MgO <sub>26</sub> -based amperometric-type sensor attached with nano-structured CoWO <sub>4</sub> sensing electrode. <i>Journal of Alloys and Compounds</i> , 2016, 663, 86-93.   | 5.5 | 21        |
| 83 | Preparation of dendritic bismuth film electrodes and their application for detection of trace Pb (II) and Cd (II). <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 410-414.  | 3.5 | 21        |
| 84 | Influence of process parameters on the sensitivity of an amperometric NO <sub>2</sub> sensor with La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> sensing electrode prepared by the impregnation method. <i>Ceramics International</i> , 2015, 41, 3740-3747.                  | 4.8 | 10        |
| 85 | Effective improvement of sensing performance of amperometric NO <sub>2</sub> sensor by Ag-modified nano-structured CuO sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 791-800.  | 7.8 | 36        |
| 86 | Effect of Ba nonstoichiometry on the phase composition, microstructure, chemical stability and electrical conductivity of Ba <sub>x</sub> Ce <sub>0.7</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3</sub> (0.9 ≤ x ≤ 1.1) proton conductors. <i>Ceramics International</i> , 2015, 41, 7796-7802. | 4.8 | 15        |
| 87 | Effect of fluorine, chlorine and bromine doping on the properties of gadolinium doped barium cerate electrolytes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8980-8988.  | 7.1 | 36        |
| 88 | Mn <sub>3</sub> O <sub>4</sub> anchored on carbon nanotubes as an electrode reaction catalyst of V(IV)/V(V) couple for vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2015, 176, 1434-1440.  | 5.2 | 76        |
| 89 | Production of nano-sized chromium carbide powders from Cr <sub>2</sub> O <sub>3</sub> /C precursors by direct electrochemical reduction in molten calcium chloride. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 51, 153-159.   | 3.8 | 20        |
| 90 | A direct electrochemical route from oxides to TiMn <sub>2</sub> hydrogen storage alloy. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1865-1870.   | 3.5 | 6         |

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|-----|--|------|-----------|
| 91  | In-situ synthesis of MoSi <sub>2</sub> coating on molybdenum substrate by electro-deoxidation of a SiO <sub>2</sub> layer in molten salt. <i>Ceramics International</i> , 2015, 41, 13663-13670.   | 4.8  | 14        |
| 92  | Direct electrochemical synthesis of zirconium carbide from zirconia/C precursors in molten calcium chloride. <i>Ceramics International</i> , 2015, 41, 4182-4188.  | 4.8  | 17        |
| 93  | High temperature amperometric NO <sub>2</sub> sensor based on nano-structured Gd <sub>0.2</sub> Sr <sub>0.8</sub> FeO <sub>3-<math>\delta</math></sub> prepared by impregnating method. <i>Journal of Alloys and Compounds</i> , 2014, 583, 361-365.   | 5.5  | 19        |
| 94  | Preparation of ZrMn <sub>2</sub> hydrogen storage alloy by electro-deoxidation in molten calcium chloride. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2883-2889.  | 4.2  | 13        |
| 95  | A La <sub>10</sub> Si <sub>5</sub> NbO <sub>27.5</sub> based electrochemical sensor using nano-structured NiO sensing electrode for detection of NO <sub>2</sub> . <i>Materials Letters</i> , 2013, 109, 16-19.  | 2.6  | 19        |
| 96  | A novel impedancemetric NO <sub>2</sub> sensor based on nano-structured La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> prepared by impregnating method. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 778-786.             | 7.8  | 17        |
| 97  | A novel amperometric NO <sub>2</sub> sensor based on nano-structured La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> /Ag composite sensing electrode prepared by impregnating method. <i>Materials Letters</i> , 2013, 96, 206-209. | 2.6  | 6         |
| 98  | An amperometric NO <sub>2</sub> sensor based on La <sub>10</sub> Si <sub>5</sub> NbO <sub>27.5</sub> electrolyte and nano-structured CuO sensing electrode. <i>Journal of Hazardous Materials</i> , 2013, 262, 545-553.  | 12.4 | 39        |
| 99  | Synthesis and properties of core-shell structured BaCe <sub>0.9</sub> Y <sub>0.1</sub> O <sub>2.95</sub> :BaZr <sub>0.9</sub> Y <sub>0.1</sub> O <sub>2.95</sub> . <i>Ceramics International</i> , 2013, 39, 7959-7966.  | 4.8  | 10        |
| 100 | Structure, chemical stability, and electrochemical properties of Ba(Ce <sub>0.5</sub> Zr <sub>0.5</sub> ) <sub>1-x</sub> Y <sub>x</sub> O <sub>3-<math>\delta</math></sub> . <i>Ionics</i> , 2012, 18, 899-906.  | 2.4  | 2         |
| 101 | A novel amperometric hydrogen sensor based on nano-structured ZnO sensing electrode and CaZr <sub>0.9</sub> In <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> electrolyte. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 85-92.   | 7.8  | 19        |
| 102 | A planar, impedancemetric NO <sub>2</sub> sensor based on NiO nanoparticles sensing electrode. <i>Materials Letters</i> , 2012, 87, 24-27.   | 2.6  | 21        |
| 103 | An amperometric NO <sub>2</sub> sensor based on nano-structured La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> prepared by impregnating method. <i>Journal of Alloys and Compounds</i> , 2012, 526, 145-150.                       | 5.5  | 18        |
| 104 | Direct electrochemical preparation of CeCo <sub>5</sub> alloy from mixed oxides. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2007-2013.  | 4.2  | 11        |
| 105 | Investigation on Amperometric-type NO <sub>2</sub> Sensor Based on Nano CuO Electrode. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 39, 1347-1351.   | 1.7  | 0         |
| 106 | Investigation on Impedancemetric-type NO <sub>2</sub> Sensor Based on La <sub>0.75</sub> Sr <sub>0.25</sub> Mn <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> Sensing Electrode. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 523-528.             | 1.3  | 4         |
| 107 | Sintering, chemical stability and electrical conductivity of the perovskite proton conductors BaCe <sub>0.45</sub> Zr <sub>0.45</sub> M <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> (M=In, Y, Gd, Sm). <i>Journal of Alloys and Compounds</i> , 2009, 467, 376-382.                        | 5.5  | 61        |
| 108 | Direct electrolytic preparation of cerium/nickel hydrogen storage alloy powder in molten salt. <i>Journal of Alloys and Compounds</i> , 2009, 468, 379-385.  | 5.5  | 37        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Chemical stability of doped BaCeO <sub>3</sub> -BaZrO <sub>3</sub> solid solutions in different atmospheres. Journal of Rare Earths, 2008, 26, 505-510.              | 4.8 | 83        |
| 110 | A CO <sub>2</sub> gas sensor based upon composite Nasicon/Sr <sup>2+</sup> -Al <sub>2</sub> O <sub>3</sub> bioelectrolyte. Solid State Ionics, 2008, 179, 1662-1665. | 2.7 | 12        |
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