

# Yanwei Zeng

## List of Publications by Year in descending order

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38  
papers

672  
citations

567281

15  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchically porous Fe <sub>3</sub> O <sub>4</sub> /C nanocomposite microspheres via a CO <sub>2</sub> bubble-templated hydrothermal approach as high-rate and high-capacity anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5898-5908.	10.3	71
2	One-step synthesis of yttrium orthoferrite nanocrystals via sol-gel auto-combustion and their structural and magnetic characteristics. <i>Materials Chemistry and Physics</i> , 2013, 137, 877-883.	4.0	43
3	Modeling of chloride diffusion in hetero-structured concretes by finite element method. <i>Cement and Concrete Composites</i> , 2007, 29, 559-565.	10.7	38
4	Low-temperature synthesis and microstructure-property study of single-phase yttrium iron garnet (YIG) nanocrystals via a rapid chemical coprecipitation. <i>Materials Chemistry and Physics</i> , 2011, 125, 646-651.	4.0	38
5	Porosity-permeability and textural heterogeneity of reservoir sandstones from the Lower Cretaceous Putaohua Member Of Yaojia Formation, Weixing Oilfield, Songliao Basin, Northeast China. <i>Marine and Petroleum Geology</i> , 2007, 24, 109-127.	3.3	37
6	Direct synthesis of La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> ultrafine powder via sol-gel self-combustion method. <i>Journal of Alloys and Compounds</i> , 2008, 458, 378-382.	5.5	35
7	Preparation and characterization of Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> (SDC)-carbonates composite electrolyte via molten salt infiltration. <i>Materials Letters</i> , 2011, 65, 2751-2754.	2.6	34
8	Investigation of Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> /Na <sub>2</sub> CO <sub>3</sub> Nanocomposite Electrolytes: Preparation, Interfacial Microstructures, and Ionic Conductivities. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12876-12886.	8.0	34
9	Resource utilization of waste V <sub>2</sub> O <sub>5</sub> -based deNO <sub>x</sub> catalysts for hydrogen production from formaldehyde and water via steam reforming. <i>Journal of Hazardous Materials</i> , 2020, 381, 120934.	12.4	34
10	Porous Fe <sub>3</sub> O <sub>4</sub> -NCs-in-Carbon Nanofoils as High-Rate and High-Capacity Anode Materials for Lithium-Ion Batteries from Na-Citrate-Mediated Growth of Super-Thin Fe-Ethylene Glycolate Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7977-7990.	8.0	30
11	Effects of In <sup>3+</sup> -substitution on the structure and magnetic properties of multi-doped YIG ferrites with low saturation magnetizations. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 611-615.	2.3	29
12	Enhanced photocatalytic properties of CdS-decorated BiPO <sub>4</sub> heterogeneous semiconductor catalyst under UV-light irradiation. <i>Journal of Alloys and Compounds</i> , 2017, 729, 189-197.	5.5	27
13	Electrical properties and thermal expansion of cobalt doped apatite-type lanthanum silicates based electrolytes for IT-SOFC. <i>Materials Research Bulletin</i> , 2012, 47, 719-723.	5.2	25
14	NaCl-induced nickel-cobalt inverse spinel structure for boosting hydrogen evolution from ethyl acetate and water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1700-1710.	10.3	19
15	Temperature- and time-tuned morphological evolution of polyhedral magnetite nanocrystals and their facet-dependent high-rate performance for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 676, 347-355.	5.5	15
16	Processing temperature tuned interfacial microstructure and protonic and oxide ionic conductivities of well-sintered Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> -Na <sub>2</sub> CO <sub>3</sub> nanocomposite electrolytes for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017, 360, 114-123.	7.8	14
17	Synthesis of manganese-zinc ferrite nanopowders prepared by a microwave-assisted auto-combustion method: Influence of sol-gel chemistry on microstructure. <i>Materials Science in Semiconductor Processing</i> , 2014, 23, 50-57.	4.0	13
18	An Investigation of Protonic and Oxide Ionic Conductivities at the Interfacial Layers in SDC-LNC Composite Electrolytes. <i>Electrochimica Acta</i> , 2016, 212, 583-593.	5.2	13

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19	Novel porous ceramic sheet supported metal reactors for continuous-flow catalysis. <i>Catalysis Today</i> , 2020, 358, 324-332.	4.4	13
20	Effects of magnetic pre-alignment of nano-powders on formation of high textured barium hexa-ferrite quasi-single crystals via a magnetic forming and liquid participation sintering route. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 188-192.	2.3	12
21	One-step synthesis of single phase micro-sized BaFe <sub>12</sub> O <sub>19</sub> hexaplates via a modified hydrothermal approach. <i>Materials Chemistry and Physics</i> , 2016, 184, 241-249.	4.0	12
22	Key Role of Lanthanum Oxide: Promotional Effects of Lanthanum in NiLaO <sub>y</sub> /NaCl for Hydrogen Production from Ethyl Acetate and Water. <i>Small</i> , 2018, 14, e1800927.	10.0	12
23	Magnetic Properties of a Highly Textured Barium Hexa-Ferrite Quasi-Single Crystal and Its Application in Low-Field Biased Circulators. <i>Journal of Electronic Materials</i> , 2016, 45, 5069-5073.	2.2	11
24	Solvothermal synthesis of La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> nanocrystals and their enhancing impacts on sintering and oxygen ion conductivity of Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> /La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> composite electrolytes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6295-6306.	7.1	10
25	A modeling investigation on the electrochemical behavior of porous mixed conducting cathodes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2005, 139, 35-43.	7.8	6
26	Influence of pH on the property of apatite-type lanthanum silicates prepared by sol-gel process. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 841-846.	1.0	6
27	Steam reforming of formaldehyde for generating hydrogen and coproducing carbon nanotubes for enhanced photosynthesis. <i>Catalysis Science and Technology</i> , 2020, 10, 4436-4447.	4.1	6
28	Preparation of spherical Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> nanocrystals by a sol-gel inverse mini-emulsion approach. <i>Electronic Materials Letters</i> , 2014, 10, 1-4.	2.2	5
29	Preparation of SDC/NC nanocomposite electrolytes with elevated densities: influence of pre-firing and sintering treatments on their microstructures and electrical conductivities. <i>RSC Advances</i> , 2016, 6, 99615-99624.	3.6	5
30	Convection-diffusion derived gradient films on porous substrates and their microstructural characteristics. <i>Journal of Materials Science</i> , 2007, 42, 2387-2392.	3.7	4
31	Modeling investigation of gradient electrolyte films deposited via convection-diffusion on porous electrode substrates. <i>Journal of Power Sources</i> , 2008, 178, 309-315.	7.8	4
32	Preparation of 2D Fe <sub>2</sub> O <sub>3</sub> platelets via a hydrothermal heterogeneous growth approach and study of their magnetic properties. <i>New Journal of Chemistry</i> , 2017, 41, 6436-6444.	2.8	4
33	Synthesis and characterization of Al <sup>3+</sup> -doped La <sub>9.33</sub> Ge <sub>6</sub> O <sub>26</sub> intermediate temperature electrolyte for SOFCs. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 171, 50-55.	3.5	3
34	Preparation of Sm <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> (SDC) electrolyte film with gradient structure via a gas-phase controlling convection-diffusion approach on porous substrate. <i>Advances in Colloid and Interface Science</i> , 2010, 161, 181-194.	14.7	3
35	Electrochemical redox pattern and allied interactive behaviour of FAD on a ruthenium-modified glassy carbon electrode surface. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 708-722.	1.2	3
36	Dopant-induced shape evolution of polyhedral magnetite nanocrystals and their morphology/component-dependent high-rate electrochemical performance for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 53331-53338.	3.6	2

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37	Highly dispersed spherical Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> nanocrystals via topotactic crystallization of aggregation-free gel particles from an effective inverse miniemulsion sol-gel approach. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	1
38	Preparation of highly (001)-oriented $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> film on Si-substrate from drop coated BaFe <sub>12</sub> O <sub>19</sub> via barium diffusion-induced transformation. <i>Ceramics International</i> , 2017, 43, 5362-5366.	4.8	1