

Xuehang Wu

List of Publications by Year in descending order

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68
papers

1,666
citations

331670

21
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315739

38
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68
all docs

68
docs citations

68
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	P2-type Na _{0.66} Ni _{0.33} x Zn x Mn _{0.67} O ₂ as new high-voltage cathode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 281, 18-26.	7.8	279
2	Insights into the Effects of Zinc Doping on Structural Phase Transition of P2-Type Sodium Nickel Manganese Oxide Cathodes for High-Energy Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22227-22237.	8.0	177
3	Sol-gel synthesis of Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇)/C nanocomposite for sodium ion batteries and new insights into microstructural evolution during sodium extraction. <i>Journal of Power Sources</i> , 2016, 327, 666-674.	7.8	99
4	Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇)@NaFePO ₄ @C core-double-shell architectures on carbon cloth: A high-rate, ultrastable, and flexible cathode for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2019, 365, 132-141.	12.7	72
5	Remarkable enhancement in the electrochemical activity of maricite NaFePO ₄ on high-surface-area carbon cloth for sodium-ion batteries. <i>Carbon</i> , 2019, 146, 78-87.	10.3	60
6	Synthesis and characterization of urchin-like Mn _{0.33} Co _{0.67} C ₂ O ₄ for Li-ion batteries: Role of SEI layers for enhanced electrochemical properties. <i>Electrochimica Acta</i> , 2015, 163, 93-101.	5.2	58
7	Insights of the anionic redox in P2-Na _{0.67} Ni _{0.33} Mn _{0.67} O ₂ . <i>Nano Energy</i> , 2020, 78, 105285.	16.0	49
8	Enhancing the interfacial stability of P2-type cathodes by polydopamine-derived carbon coating for achieving performance improvement. <i>Carbon</i> , 2020, 157, 693-702.	10.3	41
9	Rational Design of Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) Nanoparticles Embedded in Graphene: Toward Fast Sodium Storage Through the Pseudocapacitive Effect. <i>ACS Applied Energy Materials</i> , 2018, 1, 6268-6278.	5.1	37
10	One-pot solvothermal synthesis of fern leaf-like Fe_2O_3 @C/graphene from ferrocene with enhanced lithium and sodium storage properties. <i>Powder Technology</i> , 2018, 323, 424-432.	4.2	36
11	Synthesis and electrochemical performance of SnO ₂ @Fe ₂ O ₃ composite as an anode material for Na-ion and Li-ion batteries. <i>Powder Technology</i> , 2015, 280, 119-123.	4.2	33
12	Toward a High-Energy-Density Cathode with Enhanced Temperature Adaptability for Sodium-Ion Batteries: A Case Study of Na ₃ MnZr(PO ₄) ₃ Microspheres with Embedded Dual-Carbon Networks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21390-21400.	8.0	27
13	Magnetic properties of nanocrystalline CuFe ₂ O ₄ and kinetics of thermal decomposition of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 9-16.	3.6	26
14	Highly stable Na metal anode enabled by a multifunctional hard carbon skeleton. <i>Carbon</i> , 2021, 176, 219-227.	10.3	25
15	Preparation of nanocrystalline BiFeO ₃ via a simple and novel method and its kinetics of crystallization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 625-632.	3.6	24
16	Structural and Magnetic Properties Evolution of Li-Substituted Co _{0.5} Ni _{0.5} Fe ₂ O ₄ Ferrite. <i>Journal of Electronic Materials</i> , 2017, 46, 199-207.	2.2	24
17	Concentration and separation of vanadium from alkaline media by strong alkaline anion-exchange resin 717. <i>Rare Metals</i> , 2010, 29, 439-443.	7.1	23
18	Products and non-isothermal kinetics of thermal decomposition of MgFe ₂ (C ₂ O ₄) ₃ ·6H ₂ O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 781-787.	3.6	23

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19	Stabilizing P2-Type Ni ²⁺ /Mn Oxides as High-Voltage Cathodes by a Doping-Integrated Coating Strategy Based on Zinc for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 40695-40704.	8.0	23
20	Preparation of new sunscreen materials Ce _{1-x} Zn _x O _{2-x} via solid-state reaction at room temperature and study on their properties. Rare Metals, 2010, 29, 149-153.	7.1	21
21	Kinetics and thermodynamics of thermal decomposition of NH ₄ NiPO ₄ ·6H ₂ O. Journal of Thermal Analysis and Calorimetry, 2011, 103, 805-812.	3.6	21
22	Structural and magnetic properties of soft/hard NiFe ₂ O ₄ @SrCo _{0.2} Fe _{11.8} O ₁₉ core/shell composite prepared by the ball-milling-assisted ceramic process. Journal of Materials Science: Materials in Electronics, 2018, 29, 13903-13913.	2.2	21
23	Nanocrystalline Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ . Journal of Thermal Analysis and Calorimetry, 2012, 110, 1143-1151.	3.6	19
24	Improvement of the Coercivity of Cobalt Ferrites Induced by Substitution of Sr ²⁺ Ions for Co ²⁺ Ions. Journal of Electronic Materials, 2017, 46, 4618-4626.	2.2	19
25	Preparation of nanocrystalline LiMnPO ₄ via a simple and novel method and its isothermal kinetics of crystallization. Journal of Materials Science, 2011, 46, 2474-2478.	3.7	18
26	PEG400-assisted synthesis of oxygen-incorporated MoS ₂ ultrathin nanosheets supported on reduced graphene oxide for sodium ion batteries. Journal of Alloys and Compounds, 2018, 763, 257-266.	5.5	18
27	Preparation of nano-sized cerium and titanium pyrophosphates via solid-state reaction at room temperature. Rare Metals, 2009, 28, 33-38.	7.1	17
28	Novel Method for Preparing NH ₄ NiPO ₄ ·6H ₂ O: Hydrogen Bonding Coacervate Selective Self-assembly. Chinese Journal of Chemistry, 2010, 28, 2389-2393.	4.9	17
29	Synthesis of hexagonal Co ³⁺ -substituted Sr-ferrites via ball-milling assisted ceramic process and their magnetic properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 18815-18824.	2.2	17
30	Selective self-assembly synthesis of MnV ₂ O ₆ ·4H ₂ O with controlled morphologies and study on its thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2012, 109, 163-169.	3.6	16
31	Enhancements of saturation magnetization and coercivity in Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /SrFe ₁₂ O ₁₉ composite powders by exchange-coupling mechanism. Journal of Materials Science: Materials in Electronics, 2019, 30, 11682-11693.	2.2	16
32	Exchange-coupling behavior in soft/hard Li _{0.3} Co _{0.5} Zn _{0.2} Fe ₂ O ₄ /SrFe ₁₂ O ₁₉ core/shell composite synthesized by the two-step ball-milling-assisted ceramic process. Journal of Materials Science: Materials in Electronics, 2019, 30, 1579-1590.	2.2	16
33	Controlled growth of large-area arrays of Al-substituted CoNiZn ferrite rods with high saturation magnetization by solvothermal method. Journal of Materials Science: Materials in Electronics, 2017, 28, 7874-7883.	2.2	15
34	In-situ constructing a supersodiophilic fluffy surface layer on a Cu foam host for stable Na metal anodes. Journal of Alloys and Compounds, 2021, 853, 157371.	5.5	15
35	Box-like FeS@nitrogen-sulfur dual-doped carbon as high-performance anode materials for lithium ion and sodium ion batteries. Journal of Electroanalytical Chemistry, 2021, 903, 115848.	3.8	15
36	Preparation of Magnetic Cu _{0.5} Mg _{0.5} Fe ₂ O ₄ Nanoparticles and Kinetics of Thermal Process of Precursor. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1971-1977.	1.8	14

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37	Preparation of magnetic nanocrystalline Mn _{0.5} Mg _{0.5} Fe ₂ O ₄ and kinetics of thermal decomposition of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 205-212.	3.6	14
38	Hydrothermal synthesis of urchin-like NiCo ₂ O ₄ /stereotaxically constructed graphene microspheres for ultrahigh-rate lithium and sodium storage. <i>Powder Technology</i> , 2021, 380, 115-125.	4.2	14
39	Nanocrystalline Cu _{0.5} Zn _{0.5} Fe ₂ O ₄ : Preparation and Kinetics of Thermal Decomposition of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 3523-3528.	1.8	13
40	Structural and Magnetic Properties of Soft/Hard Mn _{0.6} Zn _{0.4} Fe ₂ O ₄ @Sr _{0.85} Ba _{0.15} Fe ₁₂ O ₁₉ Core/Shell Composite Synthesized by the Ball-Milling-Assisted Ceramic Process. <i>Journal of Electronic Materials</i> , 2018, 47, 6811-6820.	2.2	13
41	Magnetic Properties of Cu _{0.48} Ni _{0.52} Fe ₂ O ₄ and Thermal Process of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2153-2158.	1.8	12
42	Sodium compensation and interface protection effects of Na ₃ PS ₃ O for sodium-ion batteries with P2-type oxide cathodes. <i>Chemical Engineering Journal</i> , 2022, 437, 135275.	12.7	12
43	Synthesis of Layered Sodium Manganese Phosphate via Low-temperature Solid State Reaction and Its Properties. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2394-2398.	4.9	11
44	Preparation of nanocrystalline BiFeO ₃ and kinetics of thermal process of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 1057-1065.	3.6	11
45	Controllable preparation of large-area arrays of Al-substituted CoCuNi ferrite rods with improvement of saturation magnetization and initial permeability. <i>Journal of Materials Science</i> , 2017, 52, 10085-10097.	3.7	11
46	Engineering of CoS@CoS nanoparticles encapsulated into N-doped graphitic carbon tubes for high-performance lithium storage. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152859.	5.5	11
47	Magnetic properties and crystallization kinetics of Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ . <i>Rare Metals</i> , 2011, 30, 621-626.	7.1	10
48	Synthesis and Electrochemical Properties of Ni _x Co _{3-x} O ₄ with Porous Hierarchical Structures for Na-Ion Batteries. <i>Journal of Electronic Materials</i> , 2020, 49, 5508-5522.	2.2	10
49	Non-isothermal kinetics of thermal decomposition of NH ₄ ZrH(PO ₄) ₂ ·H ₂ O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 685-691.	3.6	8
50	Structural and Magnetic Properties of La-Substituted M-Type Hexagonal Sr _{1-x} Ni _x Ferrites Synthesized by Ball-Milling-Assisted Ceramic Process. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 441-449.	1.8	8
51	Rational Synthesis of Fern Leaf-like FeS ₂ @Sulfur-Doped Carbon as an Anode for Superior Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 12599-12609.	5.1	8
52	Nanocrystalline LiMn ₂ O ₄ preparation and kinetics of thermal process of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1391-1399.	3.6	7
53	Magnetic Nanocrystalline Mg _{0.5} Zn _{0.5} Fe ₂ O ₄ : Preparation, Morphology Evolution, and Kinetics of Thermal Decomposition of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 511-518.	1.8	7
54	Synthesis of rambutan-like MnCo ₂ O ₄ and its adsorption performance for methyl orange. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 653-663.	3.6	7

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55	Synthesis of Spinel MnCo ₂ O ₄ by Thermal Decomposition of Carbonates and Kinetics of Thermal Decomposition of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1249-1256.	1.8	6
56	Controlled synthesis of uniform porous CuO microspheres for enhanced sodium storage. <i>Materials Letters</i> , 2020, 263, 127231.	2.6	6
57	Accommodating sodium into three-dimensional hosts with a nanoscale sodiophilic layer towards stable pre-stored Na metal anodes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6987-6997.	5.9	6
58	Nanocrystalline ZrO ₂ preparation and kinetics research of phase transition. <i>Rare Metals</i> , 2012, 31, 51-57.	7.1	5
59	Synthesis of CeO ₂ by thermal decomposition of oxalate and kinetics of thermal decomposition of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 499-506.	3.6	5
60	Improvement of the Magnetization and Coercivity of La _{0.67} Ca _{0.33} MnO ₃ Induced by Substitution of Nickel for Manganese. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 521-528.	1.8	5
61	Structure, magnetic properties, and exchange-coupling effect of Co _{0.6} Mg _{0.15} Nd _x Fe _{2.25} xO ₄ /Co. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	4
62	Stereotaxically Constructed Graphene Modification of CuO-Cu ₂ O/TiO ₂ Microspheres for Boosted Lithium and Sodium Storage Performance. <i>Journal of Electronic Materials</i> , 2022, 51, 47-56.	2.2	4
63	Synthesis of Perovskite Pr _{1.1} MnO _{3.15} and Phase Evolution and Magnetic Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2751-2756.	1.8	2
64	Improved magnetic properties of Sr _{0.93} Sm _{0.10} Fe _{11.97} O ₁₉ /Fe ₃ O ₄ composite powders by substitution of Sm and magnetic exchange coupling effect. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20400-20410.	2.2	2
65	Improved lithium storage performance of urchin-like CuO microspheres by stereotaxically constructed graphene mediating synergistic effect. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8557-8569.	2.2	2
66	Improved lithium storage performance of (Ni _{0.1} Co _{0.7} Mn _{0.2}) ₃ O ₄ @Void@N-doped carbon via the synergistic effect between void space structure and N-doped carbon layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19552-19567.	2.2	1
67	Preparation and ultraviolet-visible ray transmission property of nanocrystalline InPO ₄ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1705-1709.	3.6	0
68	Composition-dependent magnetic properties of exchange-coupled hard/soft Co _{0.55} Ni _{0.4} Nd _x Fe _{2.05} xO ₄ /Co composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6349-6359.	2.2	0