

Jigui Cheng

List of Publications by Year in descending order

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40
papers

1,213
citations

471477

17
h-index

361001

35
g-index

40
all docs

40
docs citations

40
times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of diamond/W-Cu functionally graded material by microwave sintering. Nuclear Engineering and Technology, 2022, 54, 975-983.	2.3	6
2	Simultaneous and accurate screening of multiple genetically modified organism (GMO) components in food on the same test line of SERS-integrated lateral flow strip. Food Chemistry, 2022, 366, 130595.	8.2	11
3	Recycling of Rhenium from W-Re-Alloyed Scraps by a Pyrometallurgical Method. Journal of Sustainable Metallurgy, 2022, 8, 148-155.	2.3	8
4	Improved oxygen reduction reaction activity by in-situ synthesizing Sr ₃ Fe _{1.8} Nb _{0.2} O _{7-δ} coating on SrFe _{0.9} Nb _{0.1} O _{3-δ} cathode via the microwave water bath heating method. Journal of the European Ceramic Society, 2022, 42, 6557-6565.	5.7	2
5	Enhanced mechanical properties and interface structure characterization of W-La ₂ O ₃ alloy designed by an innovative combustion-based approach. Nuclear Engineering and Technology, 2021, 53, 1593-1601.	2.3	10
6	Applications of Two Dimensional Material-MXene for Proton Exchange Membrane Fuel Cells (PEMFCs) and Water Electrolysis. Current Nanoscience, 2021, 17, 2-13.	1.2	7
7	A novel approach to fabricate W-Cu functionally graded materials via sedimentation and infiltration method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 816, 141276.	5.6	15
8	A New In Situ Synthetic Triple-Conducting Core-Shell Electrode for Protonic Ceramic Fuel Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 11070-11079.	6.7	14
9	Proton uptake kinetics and electromotive force in BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O _{3-δ} cathode material with e ⁻ /O ²⁺ /H ⁺ three mobile carriers for protonic ceramic fuel cells. Ionics, 2021, 27, 1185-1192.	2.4	18
10	Solution combustion synthesis of ternary Ni/WC/C composites with efficient electrocatalytic oxygen reduction performance. RSC Advances, 2021, 11, 38718-38726.	3.6	3
11	Oxidative stress caused by lead (Pb) induces iron deficiency in Drosophila melanogaster. Chemosphere, 2020, 243, 125428.	8.2	38
12	The High-Performance Bifunctional Catalyst Pd/Ti ₃ C ₂ T _x -Carbon Nanotube for Oxygen Reduction Reaction and Hydrogen Evolution Reaction in Alkaline Medium. Energy Technology, 2020, 8, 2000306.	3.8	29
13	A novel core-shell LSCF perovskite structured electrocatalyst with local hetero-interface for solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 11824-11833.	7.1	13
14	The rapid one-step fabrication of bilayer anode for protonic ceramic fuel cells by phase inversion tape casting. Journal of the European Ceramic Society, 2020, 40, 3104-3110.	5.7	15
15	Novel combustion-carbonization preparation of mesoporous tungsten carbide as a highly active catalyst for oxygen reduction. New Journal of Chemistry, 2020, 44, 4004-4010.	2.8	6
16	MXene (Ti ₃ C ₂ T _x) and Carbon Nanotube Hybrid-Supported Platinum Catalysts for the High-Performance Oxygen Reduction Reaction in PEMFC. ACS Applied Materials & Interfaces, 2020, 12, 19539-19546.	8.0	67
17	Effect of diamond surface treatment on microstructure and thermal conductivity of diamond/W-30Cu composites prepared by microwave sintering. Diamond and Related Materials, 2020, 104, 107760.	3.9	16
18	On the processing properties and friction behaviours during compaction of powder mixtures. Materials Science and Technology, 2020, 36, 1057-1064.	1.6	12

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19	Facile electroless copper plating on diamond particles without conventional sensitization and activation. <i>Advanced Powder Technology</i> , 2019, 30, 2751-2758.	4.1	13
20	Investigate the proton uptake process of proton/oxygen ion/hole triple conductor BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O _{3-δ} by electrical conductivity relaxation. <i>Journal of Power Sources</i> , 2019, 440, 227122.	7.8	35
21	Functionally Graded W-Cu Materials Prepared from Cu-Coated W Powders by Microwave Sintering. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6135-6144.	2.5	9
22	Preparation and characterization of nanosized W-Cu powders by a novel solution combustion and hydrogen reduction method. <i>Journal of Alloys and Compounds</i> , 2019, 793, 352-359.	5.5	19
23	Improving the homogeneity and properties of ferrous powder mixes by a novel powder mixing process. <i>Powder Metallurgy</i> , 2019, 62, 74-83.	1.7	3
24	Preparation and Performance of Sintered Fe-2Cu-2Mo-0.8C Materials Containing Different Forms of Molybdenum Powder. <i>Materials</i> , 2019, 12, 417.	2.9	2
25	Effects of partial substitution of copper for cobalt on the microstructure and properties of ultrafine-grained WC-Co cemented carbides. <i>Journal of Alloys and Compounds</i> , 2018, 735, 43-50.	5.5	23
26	Tungsten-coated diamond powders prepared by microwave-heating salt-bath plating. <i>Powder Technology</i> , 2018, 338, 274-279.	4.2	12
27	Chemical Vapor Deposition of Perovskites for Photovoltaic Application. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600970.	3.7	46
28	Fabrication of Cs _x FA _{1-x} Pb ₃ Mixed-Cation Perovskites via Gas-Phase-Assisted Compositional Modulation for Efficient and Stable Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42708-42716.	8.0	46
29	Solvent Engineering for Ambient-Air-Processed, Phase-Stable CsPb ₃ in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3603-3608.	4.6	328
30	A polybenzimidazole/graphite oxide based three layer membrane for intermediate temperature polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , 2016, 6, 72224-72229.	3.6	13
31	Acceleration effect of chlorine in the gas-phase growth process of CH ₃ NH ₃ Pb ₃ (Cl) films for efficient perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6336-6344.	5.5	18
32	All solid supercapacitors based on an anion conducting polymer electrolyte. <i>RSC Advances</i> , 2016, 6, 19826-19832.	3.6	17
33	Mechanical properties and microstructural change of W ¹⁸² Y ₂ O ₃ alloy under helium irradiation. <i>Scientific Reports</i> , 2015, 5, 12755.	3.3	83
34	A simple in situ tubular chemical vapor deposition processing of large-scale efficient perovskite solar cells and the research on their novel roll-over phenomenon in J-V curves. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12443-12451.	10.3	69
35	Chlorine-conducted defect repairment and seed crystal-mediated vapor growth process for controllable preparation of efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22949-22959.	10.3	51
36	Effects of strontium doping on the structure, oxygen nonstoichiometry and electrochemical performance of Pr ₂ SrNi _{0.6} Cu _{0.4} O ₄₊ (0.1Å ² Å ² Å ^{0.5}) cathode materials. <i>Journal of Power Sources</i> , 2015, 7, 275, 151-158.	7.8	22

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37	Microstructure and tribological properties of laser clad Ni-Ag/TiC composite coating. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 242-245.	1.0	5
38	Preparation and properties of superfine Wâ€“20Cu powders by a novel chemical method. Materials & Design, 2013, 51, 136-140.	5.1	25
39	PREPARATION OF ULTRAFINE Wâ€“Cu COMPOSITE POWDER USING ULTRASONIC-ASSISTED ELECTROLESS PLATING. Modern Physics Letters B, 2013, 27, 1341004.	1.9	1
40	Preparation and characterization of Wâ€“Cu nanopowders by a homogeneous precipitation process. Journal of Alloys and Compounds, 2006, 421, 146-150.	5.5	83