

Wencheng Hu

List of Publications by Year in descending order

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75
papers

2,393
citations

186265

28
h-index

214800

47
g-index

77
all docs

77
docs citations

77
times ranked

3130
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance three-dimensional nanoporous NiO film as a supercapacitor electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 11062.	6.7	284
2	CVD-grown polypyrrole nanofilms on highly mesoporous structure MnO ₂ for high performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 307, 105-112.	12.7	135
3	Rational design of self-supported Cu@WC core-shell mesoporous nanowires for pH-universal hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119451.	20.2	133
4	Electrodeposition preparation of NiCo ₂ O ₄ mesoporous film on ultrafine nickel wire for flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 345, 31-38.	12.7	126
5	Hydrothermal electrodeposition incorporated with CVD-polymerisation to tune PPy@MnO ₂ interlinked core-shell nanowires on carbon fabric for flexible solid-state asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 380, 122488.	12.7	100
6	Novel hydrothermal electrodeposition to fabricate mesoporous film of Ni _{0.8} Fe _{0.2} nanosheets for high performance oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 226-233.	20.2	95
7	In situ synthesis of SWNTs@MnO ₂ /polypyrrole hybrid film as binder-free supercapacitor electrode. <i>Nano Energy</i> , 2014, 9, 245-251.	16.0	89
8	Self-Supportive Mesoporous Ni/Co/Fe Phosphosulfide Nanorods Derived from Novel Hydrothermal Electrodeposition as a Highly Efficient Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2019, 15, e1905201.	10.0	80
9	Partly nitrogenized nickel oxide hollow spheres with multiple compositions for remarkable electrochemical performance. <i>Chemical Engineering Journal</i> , 2019, 358, 531-539.	12.7	72
10	Self-generated N-doped anodized stainless steel mesh for an efficient and stable overall water splitting electrocatalyst. <i>Applied Surface Science</i> , 2019, 480, 655-664.	6.1	55
11	Incomplete phase separation strategy to synthesize P/N co-doped porous carbon with interconnected structure for asymmetric supercapacitors with ultra-high power density. <i>Electrochimica Acta</i> , 2019, 298, 717-725.	5.2	52
12	LaNiO ₃ /NiO hollow nanofibers with mesoporous wall: a significant improvement in NiO electrodes for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 629-637.	2.5	50
13	Monodisperse nickel/cobalt oxide composite hollow spheres with mesoporous shell for hybrid supercapacitor: A facile fabrication and excellent electrochemical performance. <i>Composites Part B: Engineering</i> , 2017, 113, 144-151.	12.0	49
14	Remarkable electrochemical properties of novel LaNi _{0.5} Co _{0.5} O ₃ /0.33Co ₃ O ₄ hollow spheres with a mesoporous shell. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5838-5845.	10.3	48
15	Self-Assembled Ni ₃ S ₂ Nanosheets with Mesoporous Structure Tightly Held on Ni Foam as a Highly Efficient and Long-Term Electrocatalyst for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5430-5439.	6.7	48
16	Sol-gel synthesis of nanoporous NiCo ₂ O ₄ thin films on ITO glass as high-performance supercapacitor electrodes. <i>Ceramics International</i> , 2016, 42, 11411-11416.	4.8	45
17	Quaternary (Fe/Ni)(P/S) mesoporous nanorods templated on stainless steel mesh lead to stable oxygen evolution reaction for over two months. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 576-584.	9.4	42
18	In situ construction of porous Ni/Co-MOF@Carbon cloth electrode with honeycomb-like structure for high-performance energy storage. <i>Journal of Porous Materials</i> , 2019, 26, 921-929.	2.6	41

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19	Mesoporous LaNiO ₃ /NiO nanostructured thin films for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9730.	10.3	40
20	Structural instability-induced high-performance NiFe layered double hydroxides as oxygen evolution reaction catalysts for pH-near-neutral borate electrolyte: The role of intercalates. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118343.	20.2	39
21	An <i>in situ</i> anion exchange induced high-performance oxygen evolution reaction catalyst for the pH-near-neutral potassium borate electrolyte. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6995-7005.	10.3	38
22	N-Doped Porous Carbon Self-Generated on Nickel Oxide Nanosheets for Electrocatalytic N ₂ Fixation with a Faradaic Efficiency beyond 30%. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18874-18883.	6.7	37
23	Cu(I)/Cu(II) partially substituting the Co(II) of spinel Co ₃ O ₄ nanowires with 3D interconnected architecture on carbon cloth for high-performance flexible solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 391, 123536.	12.7	37
24	Self-Supported Composite of (Ni,Co) ₃ C Mesoporous Nanosheets/N-Doped Carbon as a Flexible Electrocatalyst for pH-Universal Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5287-5295.	6.7	36
25	Anode electrodeposition of 3D mesoporous Fe ₂ O ₃ nanosheets on carbon fabric for flexible solid-state asymmetric supercapacitor. <i>Ceramics International</i> , 2019, 45, 10420-10428.	4.8	33
26	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. <i>Chemical Engineering Journal</i> , 2021, 414, 128753.	12.7	32
27	Ultrafine V ₂ O ₅ Nanowires in 3D Current Collector for High-Performance Supercapacitor. <i>ChemElectroChem</i> , 2016, 3, 704-708.	3.4	31
28	Significantly improved conductivity of spinel Co ₃ O ₄ porous nanowires partially substituted by Sn in tetrahedral sites for high-performance quasi-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7005-7017.	10.3	31
29	Interfacial engineering of an FeOOH@Co ₃ O ₄ heterojunction for efficient overall water splitting and electrocatalytic urea oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 617-626.	9.4	31
30	Fabrication and characterization of a nanoporous NiO film with high specific energy and power via an electrochemical dealloying approach. <i>Materials Research Bulletin</i> , 2013, 48, 3829-3833.	5.2	28
31	In situ hydrothermal preparation of mesoporous Fe ₃ O ₄ film for high-performance negative electrodes of supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2018, 265, 189-194.	4.4	26
32	One-step route synthesis of active carbon@La ₂ NiO ₄ /NiO hybrid coatings as supercapacitor electrode materials: Significant improvements in electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2015, 742, 1-7.	3.8	25
33	Nitrogen dual-doped porous carbon fiber: A binder-free and high-performance flexible anode for lithium ion batteries. <i>Applied Surface Science</i> , 2019, 467-468, 992-999.	6.1	22
34	Azide-assisted hydrothermal synthesis of N-doped mesoporous carbon cloth for high-performance symmetric supercapacitor employing LiClO ₄ as electrolyte. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 98, 58-65.	7.6	21
35	Highly mesoporous LaNiO ₃ /NiO composite with high specific surface area as a battery-type electrode. <i>Ceramics International</i> , 2017, 43, 5687-5692.	4.8	18
36	Electrochemical behavior of representative electrode materials in artificial seawater for fabricating supercapacitors. <i>Electrochimica Acta</i> , 2019, 318, 211-219.	5.2	18

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37	N-doped mesoporous carbon derived from electrodeposited polypyrrole on porous carbon cloth for high-performance flexibility supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 839, 39-47.	3.8	18
38	The diffusion of Pt in BST films on Pt/Ti/SiO ₂ /Si substrate by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 293-298.	2.4	17
39	Highly mesoporous structure nickel cobalt oxides with an ultra-high specific surface area for supercapacitor electrode materials. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1429-1434.	2.5	17
40	Reduced graphene oxide/Fe-phthalocyanine nanosphere cathodes for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 9170-9179.	3.7	16
41	Characteristics of Ba _{0.8} Sr _{0.2} TiO ₃ ferroelectric thin films by RF magnetron sputtering. <i>Ceramics International</i> , 2007, 33, 1299-1303.	4.8	15
42	Thermal behavior of copper powder prepared by hydrothermal treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 817-821.	2.2	15
43	Porous Ag-doped MnO ₂ thin films for supercapacitor electrodes. <i>Journal of Porous Materials</i> , 2017, 24, 1717-1723.	2.6	15
44	Facile fabrication of flower-like β -Fe ₂ O ₃ @PPy from iron rust for high-performing asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166055.	5.5	15
45	Mesoporous three dimension NiCo ₂ O ₄ /graphene composites fabricated by self-generated sacrificial template method for a greatly enhanced specific capacity. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11119-11124.	2.2	14
46	N-doped mesoporous carbon integrated on carbon cloth for flexible supercapacitors with remarkable performance. <i>Journal of Materials Science</i> , 2018, 53, 14573-14585.	3.7	14
47	Dielectric Characteristics of Sol-Gel-Derived BST/BSLaT/BST Multilayer. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 36, 249-255.	2.4	13
48	High-boiling-point solvent synthesis of mesoporous NiCo ₂ S ₄ with high specific surface area as supercapacitor electrode material. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2093-2099.	2.2	13
49	Electrodeposition of CdZn coatings based on deep eutectic solvent. <i>Surface Engineering</i> , 2012, 28, 590-593.	2.2	12
50	Fabrication and characteristics of La, Cd and Sn doped BST thin films by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 1197-1201.	2.2	11
51	Electrodeposition of SnBi coatings based on deep eutectic solvent. <i>Surface Engineering</i> , 2014, 30, 59-63.	2.2	11
52	Region-based multifocus image fusion based on Hough transform and wavelet domain hidden Markov models. , 2005, , .		10
53	In situ removal of template to synthesize mesoporous NiCo ₂ O ₄ for high performance battery-type electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 133-137.	3.8	10
54	Characterization of Sn-doped BST thin films on LaNiO ₃ -coated Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 61-66.	2.2	9

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55	Thermal conductivity of porous silica films using modified polydimethylsiloxane and polyethyleneglycol as templates by sol-gel process. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 54-59.	4.4	8
56	Waste stainless steel mesh anodized under hydrothermal environment for flexible negative electrode of supercapacitor. <i>Journal of Porous Materials</i> , 2019, 26, 1489-1494.	2.6	8
57	Electrochemical deposition of Al-Mg alloys on tungsten wires from AlCl ₃ -NaCl-KCl melts. <i>Fusion Engineering and Design</i> , 2016, 103, 8-12.	1.9	6
58	Investigation of preparation and characteristics of Sn-Bi eutectic powders derived from a high shear mechanical approach. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9836-9841.	5.5	5
59	The structure and mechanism of porous silica films by sol-gel method using poly(ethylene glycol) and side-chain polyether modified polydimethylsiloxane with terminal Si-CH ₃ as templates. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 944-948.	2.2	5
60	Preparation of mesoporous La ₂ NiO ₄ /NiO filled activated carbon composite for high performance electrochemical electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6306-6313.	2.2	5
61	FERROELECTRIC PROPERTIES OF Ba _{0.8} Sr _{0.2} TiO ₃ THIN FILMS PREPARED BY RF MAGNETRON SPUTTERING. <i>Integrated Ferroelectrics</i> , 2006, 79, 131-138.	0.7	4
62	THE SURFACE MORPHOLOGY OF Ba _{0.65} Sr _{0.35} TiO ₃ THIN FILM BY SOL-GEL METHOD. <i>Integrated Ferroelectrics</i> , 2005, 72, 1-11.	0.7	3
63	Temperature dependence of the dielectric properties of mesoporous silica films prepared by a sol-gel route in the presence of polyether modified polydimethylsiloxane. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1667-1673.	2.2	3
64	Reversed preparation of low-density poly(divinylbenzene/styrene) foam columns coated with gold films. <i>Fusion Engineering and Design</i> , 2016, 107, 51-57.	1.9	3
65	Long-range oriented graphene-like nanosheets with corrugated structure. <i>Chemical Communications</i> , 2018, 54, 13543-13546.	4.1	3
66	Direct sputtering- and electro-deposition of gold coating onto the closed surface of ultralow-density carbon-hydrogen foam cylinder. <i>Fusion Engineering and Design</i> , 2016, 113, 51-56.	1.9	2
67	Triple functions of polyaniline in situ coated on silver powders for high-performance electrically conductive pastes. <i>Materials Express</i> , 2021, 11, 1231-1238.	0.5	2
68	Electrochemical double-pulse technique to modulate the roughened surface of copper foil for copper-clad laminates. <i>Transactions of the Institute of Metal Finishing</i> , 2022, 100, 276-282.	1.3	2
69	FABRICATION AND CONDUCTIVE CHARACTERISTIC OF HIGHLY ORIENTED LANIO ₃ THIN FILMS. <i>Integrated Ferroelectrics</i> , 2007, 91, 73-79.	0.7	1
70	Simulating Pyroelectric Curves of TGS Series Crystals by Pseudo Thermodynamic Model. <i>Ferroelectrics</i> , 2005, 315, 83-89.	0.6	0
71	SOL-GEL PREPARATION AND CHARACTERIZATION OF BA _{0.65} SR _{0.35} (TI _{0.95} SN _{0.05})O ₃ THIN FILMS. <i>Integrated Ferroelectrics</i> , 2007, 92, 135-146.	0.7	0
72	Iron electroplating under hydrothermal conditions to improve anticorrosion performance. <i>Transactions of the Institute of Metal Finishing</i> , 2018, 96, 179-184.	1.3	0

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73	Preparation and Characterization of Nicke-iron Alloy Film as Freestanding Electrode for Oxygen Evolution Reaction. MATEC Web of Conferences, 2018, 160, 03001.	0.2	0
74	Hydrothermal treatment of submicrometer copper powders for the improved anti-oxidative capacity. Materials Research Innovations, 2021, 25, 133-137.	2.3	0
75	In situ fabrication of mesoporous NiO@ Graphite paper electrode with multilayered nanosheet wall structures for high-performance supercapacitors. IOP Conference Series: Earth and Environmental Science, 0, 639, 012003.	0.3	0