Wencheng Hu

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Electrochemical double-pulse technique to modulate the roughened surface of copper foil for copper-clad laminates. Transactions of the Institute of Metal Finishing, 2022, 100, 276-282.	1.3	2
2	Interfacial engineering of an FeOOH@Co3O4 heterojunction for efficient overall water splitting and electrocatalytic urea oxidation. Journal of Colloid and Interface Science, 2022, 623, 617-626.	9.4	31
3	Facile fabrication of flower-like Î³-Fe2O3 @PPy from iron rust for high-performing asymmetric supercapacitors. Journal of Alloys and Compounds, 2022, 922, 166055.	5.5	15
4	Hydrothermal treatment of submicrometer copper powders for the improved anti-oxidative capacity. Materials Research Innovations, 2021, 25, 133-137.	2.3	0
5	Rational design of self-supported Cu@WC core-shell mesoporous nanowires for pH-universal hydrogen evolution reaction. Applied Catalysis B: Environmental, 2021, 280, 119451.	20.2	133
6	Significantly improved conductivity of spinel Co₃O₄ porous nanowires partially substituted by Sn in tetrahedral sites for high-performance quasi-solid-state supercapacitors. Journal of Materials Chemistry A, 2021, 9, 7005-7017.	10.3	31
7	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. Chemical Engineering Journal, 2021, 414, 128753.	12.7	32
8	Triple functions of polyaniline in situ coated on silver powders for high-performance electrically conductive pastes. Materials Express, 2021, 11, 1231-1238.	0.5	2
9	Hydrothermal electrodeposition incorporated with CVD-polymerisation to tune PPy@MnO2 interlinked core-shell nanowires on carbon fabric for flexible solid-state asymmetric supercapacitors. Chemical Engineering Journal, 2020, 380, 122488.	12.7	100
10	â€œStructural instabilityâ€•induced high-performance NiFe layered double hydroxides as oxygen evolution reaction catalysts for pH-near-neutral borate electrolyte: The role of intercalates. Applied Catalysis B: Environmental, 2020, 263, 118343.	20.2	39
11	Quaternary (Fe/Ni)(P/S) mesoporous nanorods templated on stainless steel mesh lead to stable oxygen evolution reaction for over two months. Journal of Colloid and Interface Science, 2020, 561, 576-584.	9.4	42
12	Cu(I)/Cu(II) partially substituting the Co(II) of spinel Co3O4 nanowires with 3D interconnected architecture on carbon cloth for high-performance flexible solid-state supercapacitors. Chemical Engineering Journal, 2020, 391, 123536.	12.7	37
13	Self-Supported Composite of (Ni,Co)₃C Mesoporous Nanosheets/N-Doped Carbon as a Flexible Electrocatalyst for pH-Universal Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 5287-5295.	6.7	36
14	Selfâ€Supportive Mesoporous Ni/Co/Fe Phosphosulfide Nanorods Derived from Novel Hydrothermal Electrodeposition as a Highly Efficient Electrocatalyst for Overall Water Splitting. Small, 2019, 15, e1905201.	10.0	80
15	N-Doped Porous Carbon Self-Generated on Nickel Oxide Nanosheets for Electrocatalytic N₂ Fixation with a Faradaic Efficiency beyond 30%. ACS Sustainable Chemistry and Engineering, 2019, 7, 18874-18883.	6.7	37
16	Self-Assembled Ni₃S₂ Nanosheets with Mesoporous Structure Tightly Held on Ni Foam as a Highly Efficient and Long-Term Electrocatalyst for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 5430-5439.	6.7	48
17	Waste stainless steel mesh anodized under hydrothermal environment for flexible negative electrode of supercapacitor. Journal of Porous Materials, 2019, 26, 1489-1494.	2.6	8
18	Electrochemical behavior of representative electrode materials in artificial seawater for fabricating supercapacitors. Electrochimica Acta, 2019, 318, 211-219.	5.2	18

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19	Self-generated N-doped anodized stainless steel mesh for an efficient and stable overall water splitting electrocatalyst. Applied Surface Science, 2019, 480, 655-664.	6.1	55
20	N-doped mesoporous carbon derived from electrodeposited polypyrrole on porous carbon cloth for high-performance flexibility supercapacitors. Journal of Electroanalytical Chemistry, 2019, 839, 39-47.	3.8	18
21	In situ construction of porous Ni/Co-MOF@Carbon cloth electrode with honeycomb-like structure for high-performance energy storage. Journal of Porous Materials, 2019, 26, 921-929.	2.6	41
22	An in situ anion exchange induced high-performance oxygen evolution reaction catalyst for the pH-near-neutral potassium borate electrolyte. Journal of Materials Chemistry A, 2019, 7, 6995-7005.	10.3	38
23	Anode electrodeposition of 3D mesoporous Fe2O3 nanosheets on carbon fabric for flexible solid-state asymmetric supercapacitor. Ceramics International, 2019, 45, 10420-10428.	4.8	33
24	Incomplete phase separation strategy to synthesize P/N co-doped porous carbon with interconnected structure for asymmetric supercapacitors with ultra-high power density. Electrochimica Acta, 2019, 298, 717-725.	5.2	52
25	Nitrogen dual-doped porous carbon fiber: A binder-free and high-performance flexible anode for lithium ion batteries. Applied Surface Science, 2019, 467-468, 992-999.	6.1	22
26	Partly nitrogenized nickel oxide hollow spheres with multiple compositions for remarkable electrochemical performance. Chemical Engineering Journal, 2019, 358, 531-539.	12.7	72
27	In situ hydrothermal preparation of mesoporous Fe 3 O 4 film for high-performance negative electrodes of supercapacitors. Microporous and Mesoporous Materials, 2018, 265, 189-194.	4.4	26
28	Novel hydrothermal electrodeposition to fabricate mesoporous film of Ni0.8Fe0.2 nanosheets for high performance oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 233, 226-233.	20.2	95
29	Electrodeposition preparation of NiCo2O4 mesoporous film on ultrafine nickel wire for flexible asymmetric supercapacitors. Chemical Engineering Journal, 2018, 345, 31-38.	12.7	126
30	Reduced graphene oxide/Fe-phthalocyanine nanosphere cathodes for lithium-ion batteries. Journal of Materials Science, 2018, 53, 9170-9179.	3.7	16
31	Long-range oriented graphene-like nanosheets with corrugated structure. Chemical Communications, 2018, 54, 13543-13546.	4.1	3
32	Iron electroplating under hydrothermal conditions to improve anticorrosion performance. Transactions of the Institute of Metal Finishing, 2018, 96, 179-184.	1.3	0
33	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
34	N-doped mesoporous carbon integrated on carbon cloth for flexible supercapacitors with remarkable performance. Journal of Materials Science, 2018, 53, 14573-14585.	3.7	14
35	Monodisperse nickel/cobalt oxide composite hollow spheres with mesoporous shell for hybrid supercapacitor: A facile fabrication and excellent electrochemical performance. Composites Part B: Engineering, 2017, 113, 144-151.	12.0	49
36	Highly mesoporous LaNiO 3 /NiO composite with high specific surface area as a battery-type electrode. Ceramics International, 2017, 43, 5687-5692.	4.8	18

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37	Remarkable electrochemical properties of novel LaNi_{0.5}Co_{0.5}O₃/0.333Co₃O₄ hollow spheres with a mesoporous shell. Journal of Materials Chemistry A, 2017, 5, 5838-5845.	10.3	48
38	Mesoporous three dimension NiCo2O4/graphene composites fabricated by self-generated sacrificial template method for a greatly enhanced specific capacity. Journal of Materials Science: Materials in Electronics, 2017, 28, 11119-11124.	2.2	14
39	Azide-assisted hydrothermal synthesis of N-doped mesoporous carbon cloth for high-performance symmetric supercapacitor employing LiClO 4 as electrolyte. Composites Part A: Applied Science and Manufacturing, 2017, 98, 58-65.	7.6	21
40	Porous Ag-doped MnO2 thin films for supercapacitor electrodes. Journal of Porous Materials, 2017, 24, 1717-1723.	2.6	15
41	CVD-grown polypyrrole nanofilms on highly mesoporous structure MnO2 for high performance asymmetric supercapacitors. Chemical Engineering Journal, 2017, 307, 105-112.	12.7	135
42	High-boiling-point solvent synthesis of mesoporous NiCo2S4 with high specific surface area as supercapacitor electrode material. Journal of Materials Science: Materials in Electronics, 2017, 28, 2093-2099.	2.2	13
43	Reversed preparation of low-density poly(divinylbenzene/styrene) foam columns coated with gold films. Fusion Engineering and Design, 2016, 107, 51-57.	1.9	3
44	Solâ€“gel synthesis of nanoporous NiCo2O4 thin films on ITO glass as high-performance supercapacitor electrodes. Ceramics International, 2016, 42, 11411-11416.	4.8	45
45	In situ removal of template to synthesize mesoporous NiCo 2 O 4 for high performance batteryâ€“type electrode. Journal of Electroanalytical Chemistry, 2016, 782, 133-137.	3.8	10
46	Direct sputtering- and electro-deposition of gold coating onto the closed surface of ultralow-density carbon-hydrogen foam cylinder. Fusion Engineering and Design, 2016, 113, 51-56.	1.9	2
47	Ultrafine V₂O₅ Nanowires in 3D Current Collector for Highâ€Performance Supercapacitor. ChemElectroChem, 2016, 3, 704-708.	3.4	31
48	Highly mesoporous structure nickel cobalt oxides with an ultra-high specific surface area for supercapacitor electrode materials. Journal of Solid State Electrochemistry, 2016, 20, 1429-1434.	2.5	17
49	Electrochemical deposition of Alâ€“Mg alloys on tungsten wires from AlCl3â€“NaClâ€“KCl melts. Fusion Engineering and Design, 2016, 103, 8-12.	1.9	6
50	One-step route synthesis of active carbon@La2NiO4/NiO hybrid coatings as supercapacitor electrode materials: Significant improvements in electrochemical performance. Journal of Electroanalytical Chemistry, 2015, 742, 1-7.	3.8	25
51	LaNiO3/NiO hollow nanofibers with mesoporous wall: a significant improvement in NiO electrodes for supercapacitors. Journal of Solid State Electrochemistry, 2015, 19, 629-637.	2.5	50
52	Preparation of mesoporous La2NiO4/NiO filled activated carbon composite for high performance electrochemical electrodes. Journal of Materials Science: Materials in Electronics, 2015, 26, 6306-6313.	2.2	5
53	In situ synthesis of SWNTs@MnO 2 /polypyrrole hybrid film as binder-free supercapacitor electrode. Nano Energy, 2014, 9, 245-251.	16.0	89
54	Electrodeposition of SnBi coatings based on deep eutectic solvent. Surface Engineering, 2014, 30, 59-63.	2.2	11

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55	Mesoporous LaNiO3/NiO nanostructured thin films for high-performance supercapacitors. Journal of Materials Chemistry A, 2013, 1, 9730.	10.3	40
56	Fabrication and characterization of a nanoporous NiO film with high specific energy and power via an electrochemical dealloying approach. Materials Research Bulletin, 2013, 48, 3829-3833.	5.2	28
57	Electrodeposition of CdZn coatings based on deep eutectic solvent. Surface Engineering, 2012, 28, 590-593.	2.2	12
58	High-performance three-dimensional nanoporous NiO film as a supercapacitor electrode. Journal of Materials Chemistry, 2012, 22, 11062.	6.7	284
59	Investigation of preparation and characteristics of Snâ€“Bi eutectic powders derived from a high shear mechanical approach. Journal of Alloys and Compounds, 2011, 509, 9836-9841.	5.5	5
60	The structure and mechanism of porous silica films by solâ€“gel method using poly(ethylene glycol) and side-chain polyether modified polydimethylsiloxane with terminal Siâ€“CH3 as templates. Journal of Materials Science: Materials in Electronics, 2011, 22, 944-948.	2.2	5
61	Temperature dependence of the dielectric properties of mesoporous silica films prepared by a solâ€“gel route in the presence of polyether modified polydimethylsiloxane. Journal of Materials Science: Materials in Electronics, 2011, 22, 1667-1673.	2.2	3
62	Thermal conductivity of porous silica films using modified polydimethylsiloxane and polyethyleneglycol as templates by solâ€“gel process. Microporous and Mesoporous Materials, 2011, 143, 54-59.	4.4	8
63	Characterization of Sn-doped BST thin films on LaNiO3â€“coated Si substrate. Journal of Materials Science: Materials in Electronics, 2008, 19, 61-66.	2.2	9
64	Fabrication and characteristics of La, Cd and Sn doped BST thin films by solâ€“gel method. Journal of Materials Science: Materials in Electronics, 2008, 19, 1197-1201.	2.2	11
65	FABRICATION AND CONDUCTIVE CHARACTERISTIC OF HIGHLY ORIENTED LANIO3 THIN FILMS. Integrated Ferroelectrics, 2007, 91, 73-79.	0.7	1
66	SOLâ€“GEL PREPARATION AND CHARACTERIZATION OF BA_{0.65}SR_{0.35}(TI_{0.95}SN_{0.05})O₃ THIN FILMS. Integrated Ferroelectrics, 2007, 92, 135-146.	0.7	0
67	Characteristics of Ba0.8Sr0.2TiO3 ferroelectric thin films by RF magnetron sputtering. Ceramics International, 2007, 33, 1299-1303.	4.8	15
68	Thermal behavior of copper powder prepared by hydrothermal treatment. Journal of Materials Science: Materials in Electronics, 2007, 18, 817-821.	2.2	15
69	The diffusion of Pt in BST films on Pt/Ti/SiO2/Si substrate by sol-gel method. Journal of Sol-Gel Science and Technology, 2006, 39, 293-298.	2.4	17
70	FERROELECTRIC PROPERTIES OF Ba0.8Sr0.2TiO3 THIN FILMS PREPARED BY RF MAGNETRON SPUTTERING. Integrated Ferroelectrics, 2006, 79, 131-138.	0.7	4
71	Dielectric Characteristics of Sol-Gel-Derived BST/BSLaT/BST Multilayer. Journal of Sol-Gel Science and Technology, 2005, 36, 249-255.	2.4	13
72	Region-based multifocus image fusion based on Hough transform and wavelet domain hidden Markov models. , 2005, , .		10

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73	Simulating Pyroelectric Curves of TGS Series Crystals by Pseudo Thermodynamic Model. Ferroelectrics, 2005, 315, 83-89.	0.6	0
74	THE SURFACE MORPHOLOGY OF Ba0.65Sr0.35TiO3 THIN FILM BY SOL-GEL METHOD. Integrated Ferroelectrics, 2005, 72, 1-11.	0.7	3
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