

Hongtao Cui

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

904
citations

15
h-index

26
g-index

76
ext. papers

1,129
ext. citations

4.1
avg, IF

4.65
L-index

#	Paper	IF	Citations
76	Structure switch between γ -Fe ₂ O ₃ , β -Fe ₂ O ₃ and Fe ₃ O ₄ during the large scale and low temperature sol-gel synthesis of nearly monodispersed iron oxide nanoparticles. <i>Advanced Powder Technology</i> , 2013 , 24, 93-97	4.6	153
75	Strategies of large scale synthesis of monodisperse nanoparticles. <i>Recent Patents on Nanotechnology</i> , 2009 , 3, 32-41	1.2	58
74	MOF derived in-situ carbon-encapsulated Fe ₃ O ₄ @C to mediate polysulfides redox for ultrastable Lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020 , 381, 122652	14.7	52
73	Frogspawn inspired hollow FeC@N-C as an efficient sulfur host for high-rate lithium-sulfur batteries. <i>Nanoscale</i> , 2019 , 11, 21532-21541	7.7	36
72	Large scale selective synthesis of β -Co(OH) ₂ and γ -Co(OH) ₂ nanosheets through a fluoride ions mediated phase transformation process. <i>Journal of Alloys and Compounds</i> , 2013 , 562, 33-37	5.7	32
71	Large scale synthesis of highly crystallized SnO ₂ quantum dots at room temperature and their high electrochemical performance. <i>Nanotechnology</i> , 2013 , 24, 345602	3.4	27
70	Facile and ultra large scale synthesis of nearly monodispersed CoFe ₂ O ₄ nanoparticles by a low temperature sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 55, 36-40	2.3	26
69	Synergistic regulation of polysulfides immobilization and conversion by MOF-derived CoP-HNC nanocages for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2021 , 85, 106011	17.1	24
68	Ultra-high specific capacitance of β -Ni(OH) ₂ monolayer nanosheets synthesized by an exfoliation-free sol-gel route. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	22
67	Low temperature and size controlled synthesis of monodispersed β -Fe ₂ O ₃ nanoparticles by an epoxide assisted sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 81-84	2.3	22
66	A chemical strategy to control the shape of oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1331-1338	2.3	21
65	One-pot synthesis of powder-form β -Ni(OH) ₂ monolayer nanosheets with high electrochemical performance. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	20
64	Synthesis of β -MnO ₂ with nanoflower-like architecture by a microwave-assisted hydrothermal method. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 82, 85-91	2.3	16
63	Ultra-large scale synthesis of Co/Ni layered double hydroxides monolayer nanosheets by a solvent-free bottom-up strategy. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 315-319	5.7	16
62	Self-templating synthesis of prismatic-like N-doped carbon tubes embedded with Fe ₃ O ₄ as a high-efficiency polysulfide-anchoring-conversion mediator for high performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 410, 128153	14.7	16
61	High rate performance and stabilized cycle life of Co ²⁺ -doped nickel sulfide nanosheets synthesized by a scalable method of solid-state reaction. <i>Chemical Engineering Journal</i> , 2019 , 366, 33-40	14.7	15
60	Synthesis of nanostructured CoOOH film with high electrochemical performance for application in supercapacitor. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	15

59	Large-scale synthesis of paratacamite nanoparticles with controlled size and morphology. <i>Micro and Nano Letters</i> , 2011 , 6, 823	0.9	15
58	One-pot solvothermal synthesis of size-controlled NiO nanoparticles. <i>Advanced Powder Technology</i> , 2019 , 30, 861-868	4.6	14
57	Synthesis of high electrochemical performance Ni(OH) ₂ nanosheets through a solvent-free reaction for application in supercapacitor. <i>Advanced Powder Technology</i> , 2015 , 26, 434-438	4.6	14
56	Facile synthesis of nickel-cobalt double hydroxide nanosheets with high rate capability for application in supercapacitor. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	13
55	Surfactant-free synthesis of water-soluble anatase nanoparticles and their application in preparation of high optic performance monoliths. <i>Journal of Colloid and Interface Science</i> , 2013 , 398, 7-12	9.3	13
54	Structure control synthesis of iron oxide polymorph nanoparticles through an epoxide precipitation route. <i>Journal of Experimental Nanoscience</i> , 2013 , 8, 869-875	1.9	13
53	Hierarchical nanostructure-tuned super-high electrochemical stability of nickel cobalt sulfide. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19788-19797	13	13
52	Synthesis of nanofiber-composed dandelion-like CoNiAl triple hydroxide as an electrode material for high-performance supercapacitor. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	12
51	New insight on nanostructure assembling of high-performance electrode materials: synthesis of surface-modified hexagonal Ni(OH) ₂ nanosheets as an example. <i>Ionics</i> , 2016 , 22, 573-579	2.7	11
50	Ambient temperature sol-gel synthesis of CeO ₂ /BiO ₂ and TiO ₂ /CeO ₂ /BiO ₂ films with high efficiency of UV absorption and without destructive oxidation on heat sensitive organic substrate. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 50, 261-266	2.3	11
49	A bottom-up strategy for exfoliation-free synthesis of soluble Ni(OH) ₂ monolayer nanosheets on a large scale. <i>RSC Advances</i> , 2016 , 6, 85367-85373	3.7	10
48	Co ₂ (OH) ₃ Cl nanoparticles as new-type electrode material with high electrochemical performance for application in supercapacitor. <i>Advanced Powder Technology</i> , 2017 , 28, 2642-2647	4.6	10
47	Synthesis of periodically stacked 2D composite of Ni(OH) ₂ monolayer and reduced graphene oxide as electrode material for high performance supercapacitor. <i>Advanced Powder Technology</i> , 2018 , 29, 631-638	4.6	9
46	High electrochemical performance of nanostructured CoOOH grown on nickel foam by hydrothermal deposition for application in supercapacitor. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 83-88	2.3	9
45	Controlled microstructure in two dimensional Ni-Co LDH nanosheets-crosslinked network for high performance supercapacitors. <i>Advanced Powder Technology</i> , 2019 , 30, 1239-1246	4.6	8
44	Aqueous foams stabilized solely by CoOOH nanoparticles and the resulting construction of hierarchically hollow structure. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	8
43	Building an interpenetrating network of Ni(OH) ₂ /reduced graphene oxide composite by a sol-gel method. <i>Journal of Materials Science</i> , 2018 , 53, 15118-15129	4.3	7
42	High shear-granulated hierarchically porous spheres nanostructure-designed for high-performance supercapacitors. <i>Advanced Powder Technology</i> , 2019 , 30, 2440-2449	4.6	7

41	Highly transparent silica monoliths embedded with high concentration oxide nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 66, 512-517	2.3	7
40	Highly transparent UV absorption TiO ₂ -SiO ₂ -Fe ₂ O ₃ films without oxidation catalytic activity prepared by a room temperature sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 476-480	2.3	7
39	Low temperature transformation from γ -Fe ₂ O ₃ to Ti doped γ -Fe ₂ O ₃ nanoparticles through an epoxide assisted sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 51, 119-123	2.3	7
38	Synthesis on an ultra large scale of nearly monodispersed γ -Fe ₂ O ₃ nanoparticles with La(III) doping through a sol-gel route assisted by propylene oxide. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 54, 37-41	2.3	7
37	Promotion of electrochemical performance by tailoring the surface of γ -Ni(OH) ₂ nanosheets. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 120-125	2.3	7
36	Large-scale synthesis of Fe ₉ S ₁₀ /Fe ₃ O ₄ @C heterostructure as integrated trapping-catalyzing interlayer for highly efficient lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 422, 130049	14.7	7
35	Ultra-large scale synthesis of high electrochemical performance SnO ₂ quantum dots within 5min at room temperature following a growth self-termination mechanism. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 11-16	5.7	6
34	Template-free sol-gel synthesis of microporous NiO/BiO ₂ composite with high surface area and narrow pore size distribution. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 360-364	2.3	6
33	Preparation of γ -Co(OH) ₂ monolayer nanosheets by an intercalation agent-free exfoliation process. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 293-298	2.3	5
32	Surface topography control of NiS/Ni ₃ S ₄ nanosheets for the promotion of electrochemical performance. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 87, 546-553	2.3	5
31	High water solubility and sol-gel transition behavior of titania nanoparticles obtained by an in situ functionalization sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 355-360	2.3	5
30	Exfoliation-free Nanosheet Synthesis of Transition-metal Hydroxynitrate and Its Transformation to Oxide Particulate Nanosheet. <i>Chemistry Letters</i> , 2007 , 36, 144-145	1.7	5
29	Surfactant-free large scale synthesis of Co ₃ O ₄ quantum dots at room temperature. <i>Advanced Powder Technology</i> , 2016 , 27, 2019-2024	4.6	5
28	Morphology and phase control of iron oxide polymorph nanoparticles. <i>Materials Research Express</i> , 2017 , 4, 045006	1.7	4
27	Construction of cobalt substituted γ -Ni(OH) ₂ hierarchical nanostructure from nanofibers on nickel foam and its electrochemical performance. <i>Solid State Ionics</i> , 2015 , 281, 38-42	3.3	4
26	Hierarchically structured nanofelt-like γ -NiOOH grown on nickel foam as electrode for high performance pseudocapacitor. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	4
25	Sol-gel preparation of highly transparent γ -Fe ₂ O ₃ film for the application in red color filter. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 57, 20-23	2.3	4
24	A general ultra large scale strategy for low temperature sol-gel synthesis of nearly monodispersed metal ions doped γ -Fe ₂ O ₃ nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 232-237	2.3	4

23	Synthesis of CeO ₂ nanocrystals with controlled size and shape and their influence on electrochemical performance. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 83, 308-314	2.3	4
22	In situ template synthesis of SnO nanoparticles on nickel foam with high electrochemical performance. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 86, 423-430	2.3	3
21	Electrically conductive TiO ₂ /indium tin oxide coated glass substrates with high visible light transparency prepared by an electrodeposition method. <i>Thin Solid Films</i> , 2019 , 691, 137612	2.2	3
20	A branched nanosheet-interlaced structure of high performance Ni(OH) ₂ derived from the isostructural Ni ₃ (NO ₃) ₂ (OH) ₄ to clarify the role of structure self-supporting in cycling stability. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1780-1788	5.8	3
19	Oxidation effect of ammonium persulfate on the supercapacitive properties of Ni(OH) ₂ nanosheets. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 215-220	1.6	3
18	Trapping and catalytic conversion of polysulfides by kirkendall effect built hollow NiCo ₂ S ₄ nano-prisms for advanced sulfur cathodes in LiS battery. <i>Journal of Materials Science</i> , 2021 , 56, 4328-4340	4.3	3
17	Redispersity/Solubility of nanopowder in solvents. <i>Recent Patents on Nanotechnology</i> , 2014 , 8, 18-30	1.2	2
16	Ultra-high rate capability of the synergistically built dual nanostructure of NiCoS/nickel foam as an electrode in supercapacitors. <i>Nanoscale</i> , 2020 , 12, 22330-22339	7.7	2
15	The key role of microscopic structure and graphene sheet-high homogenization in the high rate capability and cycling stability of Ni-Co LDH. <i>Nanoscale</i> , 2020 , 12, 23799-23808	7.7	2
14	Nanosheets self-supported structure in the orderly porous spheres of Co/Mn ions co-substituted Ni(OH) ₂ for high-performance supercapacitors. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 97, 422-430	2.3	2
13	Branched nanosheets-interlaced structure of Co ²⁺ /Co ³⁺ -doped Ni(OH) ₂ originating from Ni ₃ (NO ₃) ₂ (OH) ₄ template with significantly boosted electrochemical performance. <i>Journal of Materials Science</i> , 2021 , 56, 3011-3023	4.3	2
12	Zn-Ion Batteries: Boosting the Rate Capability and Low-temperature Performance by Combining Structure and Morphology Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34468-34476	9.5	2
11	In situ synthesis of two-dimensional Co ²⁺ -doped Ni(OH) ₂ using nickel complex as template for application in supercapacitors. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 89, 492-499	2.3	1
10	Building homogeneous nanostructure in Ni(OH) ₂ /MWCNTs composite by electrostatic attraction. <i>Micro and Nano Letters</i> , 2019 , 14, 1151-1156	0.9	1
9	Studies on waterline corrosion processes and corrosion product characteristics of carbon steel in 3.5 wt% NaCl solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021 , 72, 732-742	1.6	1
8	Graphitic SiC: A potential anode material for Na-ion battery with extremely high storage capacity. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26608	2.1	1
7	Assembly of Ni(OH) ₂ -based electrodes without material synthesis step for application in supercapacitors. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 85, 349-355	2.3	1
6	Shell-strengthened hollow architecture of NiCo ₂ S ₄ carved through an in-situ reaction Ostwald Ripening mechanism with significantly enhanced electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161632	5.7	1

- 5 Micro-nano architecture with carbonaceous shell enables ultra-long cycling life of battery-type electrode materials in supercapacitors. *Journal of Alloys and Compounds*, **2022**, 905, 164246 5.7 0
- 4 Nanoengineered Skeleton-surface of Nickel Foam with Additional Dual Functions of Rate-capability Promotion and Cycling-life Stabilization for Nickel Sulfide Electrodes. *ChemNanoMat*, **2020**, 6, 1365-1372^{3,5}
- 3 Emulsion-Tailored Pore Properties and Electrochemical Performance of Ni(OH)₂ Spheres Using High Shear as Driving Force. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 2000135^{1,6}
- 2 Tailoring the size and electrochemical performance of Mn₃O₄ nanoparticles by controlling the precipitation process. *Journal of Sol-Gel Science and Technology*, **2016**, 80, 326-332 2.3
- 1 Basic cadmium salts as phase-directing agent for the phase and morphology control of metal hydroxychlorides. *Micro and Nano Letters*, **2017**, 12, 285-288 0.9