

Hongtao Cui

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/311373/hongtao-cui-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
75	Micro-nano architecture with carbonaceous shell enables ultra-long cycling life of battery-type electrode materials in supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164246	5.7	0
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	Nanoengineered Skeleton-surface of Nickel Foam with Additional Dual Functions of Rate-capability Promotion and Cycling-life Stabilization for Nickel Sulfide Electrodes. <i>ChemNanoMat</i> , 2020 , 6, 1365-1372	3.5	
64	Emulsion-Tailored Pore Properties and Electrochemical Performance of Ni(OH) ₂ Spheres Using High Shear as Driving Force. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000135	1.6	
63	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
62	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
61	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
60	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

59	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
58	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
57	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
56	One-pot solvothermal synthesis of size-controlled NiO nanoparticles. <i>Advanced Powder Technology</i> , 2019 , 30, 861-868	4.6	14
55	High shear-granulated hierarchically porous spheres nanostructure-designed for high-performance supercapacitors. <i>Advanced Powder Technology</i> , 2019 , 30, 2440-2449	4.6	7
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	Hierarchical nanostructure-tuned super-high electrochemical stability of nickel cobalt sulfide. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19788-19797	13	13
45	Morphology and phase control of iron oxide polymorph nanoparticles. <i>Materials Research Express</i> , 2017 , 4, 045006	1.7	4
44	Synthesis of 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
43	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
42	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

41	Basic cadmium salts as phase-directing agent for the phase and morphology control of metal hydroxychlorides. <i>Micro and Nano Letters</i> , 2017 , 12, 285-288	0.9	
40	New insight on nanostructure assembling of high-performance electrode materials: synthesis of surface-modified hexagonal $\text{Ni}(\text{OH})_2$ nanosheets as an example. <i>Ionics</i> , 2016 , 22, 573-579	2.7	11
39	A bottom-up strategy for exfoliation-free synthesis of soluble $\text{Ni}(\text{OH})_2$ monolayer nanosheets on a large scale. <i>RSC Advances</i> , 2016 , 6, 85367-85373	3.7	10
38	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
37	Tailoring the size and electrochemical performance of Mn_3O_4 nanoparticles by controlling the precipitation process. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 80, 326-332	2.3	
36	Preparation of $\text{Co}(\text{OH})_2$ 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
35	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
34	Promotion of electrochemical performance by tailoring the surface of $\text{Ni}(\text{OH})_2$ nanosheets. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 120-125	2.3	7
33	Surfactant-free large scale synthesis of Co_3O_4 quantum dots at room temperature. <i>Advanced Powder Technology</i> , 2016 , 27, 2019-2024	4.6	5
32	Oxidation effect of ammonium persulfate on the supercapacitive properties of $\text{Ni}(\text{OH})_2$ nanosheets. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 215-220	1.6	3
31	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
30	Construction of cobalt substituted $\text{Ni}(\text{OH})_2$ hierarchical nanostructure from nanofibers on nickel foam and its electrochemical performance. <i>Solid State Ionics</i> , 2015 , 281, 38-42	3.3	4
29	Hierarchically structured nanofelt-like NiOOH grown on nickel foam as electrode for high performance pseudocapacitor. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	4
28	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
27	Synthesis of high electrochemical performance $\text{Ni}(\text{OH})_2$ nanosheets through a solvent-free reaction for application in supercapacitor. <i>Advanced Powder Technology</i> , 2015 , 26, 434-438	4.6	14
26	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
25	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
24	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

23	Ultra-high specific capacitance of $\text{Ni}(\text{OH})_2$ monolayer nanosheets synthesized by an exfoliation-free sol-gel route. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	22
22	Redispersity/Solubility of nanopowder in solvents. <i>Recent Patents on Nanotechnology</i> , 2014 , 8, 18-30	1.2	2
21	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
20	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
19	One-pot synthesis of powder-form $\text{Ni}(\text{OH})_2$ monolayer nanosheets with high electrochemical performance. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	20
18	Large scale selective synthesis of $\text{Co}(\text{OH})_2$ and $\text{Ni}(\text{OH})_2$ nanosheets through a fluoride ions mediated phase transformation process. <i>Journal of Alloys and Compounds</i> , 2013 , 562, 33-37	5.7	32
17	Structure switch between Fe_2O_3 , Fe_3O_4 and Fe_2O_3 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
16	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
15	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
14	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
13	Large-scale synthesis of paratacamite nanoparticles with controlled size and morphology. <i>Micro and Nano Letters</i> , 2011 , 6, 823	0.9	15
12	Sol-gel preparation of highly transparent Fe_2O_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
11	A general ultra large scale strategy for low temperature sol-gel synthesis of nearly monodispersed metal ions doped Fe_2O_3 nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 232-237	2.3	4
10	Highly transparent UV absorption TiO_2 - SiO_2 - Fe_2O_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
9	Synthesis on an ultra large scale of nearly monodispersed Fe_2O_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
8	Facile and ultra large scale synthesis of nearly monodispersed CoFe_2O_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
7	Low temperature transformation from Fe_2O_3 to Ti doped Fe_2O_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
6	Ambient temperature sol-gel synthesis of $\text{CeO}_2/\text{BiO}_2$ and $\text{TiO}_2/\text{CeO}_2/\text{BiO}_2$ 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

- 5 A chemical strategy to control the shape of oxide nanoparticles. *Journal of Nanoparticle Research*, **2009**, 11, 1331-1338 2.3 21
- 4 Strategies of large scale synthesis of monodisperse nanoparticles. *Recent Patents on Nanotechnology*, **2009**, 3, 32-41 1.2 58
- 3 Low temperature and size controlled synthesis of monodispersed γ -Fe₂O₃ nanoparticles by an epoxide assisted sol-gel route. *Journal of Sol-Gel Science and Technology*, **2008**, 47, 81-84 2.3 22
- 2 Template-free sol-gel synthesis of microporous NiO/BiO₂ composite with high surface area and narrow pore size distribution. *Journal of Sol-Gel Science and Technology*, **2008**, 47, 360-364 2.3 6
- 1 Exfoliation-free Nanosheet Synthesis of Transition-metal Hydroxynitrate and Its Transformation to Oxide Particulate Nanosheet. *Chemistry Letters*, **2007**, 36, 144-145 1.7 5