

Hongtao Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/311373/publications.pdf>

Version: 2024-02-01

76
papers

1,339
citations

430843

18
h-index

395678

33
g-index

76
all docs

76
docs citations

76
times ranked

1820
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.1	201
2	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.	12.7	106
3	Strategies of Large Scale Synthesis of Monodisperse Nanoparticles. <i>Recent Patents on Nanotechnology</i> , 2009, 3, 32-41.	1.3	68
4	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.	16.0	68
5	Frogspawn inspired hollow Fe ₃ C@N-C as an efficient sulfur host for high-rate lithium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 21532-21541.	5.6	58
6	Large scale selective synthesis of γ -Co(OH) ₂ and β -Co(OH) ₂ nanosheets through a fluoride ions mediated phase transformation process. <i>Journal of Alloys and Compounds</i> , 2013, 562, 33-37.	5.5	41
7	Structure control synthesis of iron oxide polymorph nanoparticles through an epoxide precipitation route. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 869-875.	2.4	40
8	Large scale synthesis of highly crystallized SnO ₂ quantum dots at room temperature and their high electrochemical performance. <i>Nanotechnology</i> , 2013, 24, 345602.	2.6	35
9	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.	12.7	33
10	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.	12.7	31
11	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.	1.9	28
12	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.	2.4	26
13	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.	2.4	24
14	A chemical strategy to control the shape of oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1331-1338.	1.9	22
15	One-pot solvothermal synthesis of size-controlled NiO nanoparticles. <i>Advanced Powder Technology</i> , 2019, 30, 861-868.	4.1	22
16	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.	1.9	21
17	Large-scale synthesis of paratacamite nanoparticles with controlled size and morphology. <i>Micro and Nano Letters</i> , 2011, 6, 823.	1.3	20
18	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.	12.7	19

#	ARTICLE	IF	CITATIONS
19	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.	4.1	18
20	Ultra-large scale synthesis of Co ²⁺ /Ni layered double hydroxides monolayer nanosheets by a solvent-free bottom-up strategy. <i>Journal of Alloys and Compounds</i> , 2016, 662, 315-319.	5.5	18
21	Synthesis of γ -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.	2.4	17
22	Synthesis of nanostructured CoOOH film with high electrochemical performance for application in supercapacitor. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	16
23	Facile synthesis of nickel ²⁺ /cobalt double hydroxide nanosheets with high rate capability for application in supercapacitor. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	16
24	Hierarchical nanostructure-tuned super-high electrochemical stability of nickel cobalt sulfide. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19788-19797.	10.3	16
25	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.	4.1	15
26	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.	8.0	15
27	A bottom-up strategy for exfoliation-free synthesis of soluble γ -Ni(OH) ₂ monolayer nanosheets on a large scale. <i>RSC Advances</i> , 2016, 6, 85367-85373.	3.6	14
28	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.	9.4	13
29	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.	2.4	13
30	Controlled microstructure in two dimensional Ni-Co LDH nanosheets-crosslinked network for high performance supercapacitors. <i>Advanced Powder Technology</i> , 2019, 30, 1239-1246.	4.1	13
31	Trapping and catalytic conversion of polysulfides by kirkendall effect built hollow NiCo ₂ S ₄ nano-prisms for advanced sulfur cathodes in Li ⁺ /S battery. <i>Journal of Materials Science</i> , 2021, 56, 4328-4340.	3.7	13
32	Ambient temperature sol ⁺ -gel synthesis of CeO ₂ @SiO ₂ and TiO ₂ @CeO ₂ @SiO 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.	2.4	12
33	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.	1.9	12
34	Ultra-high rate capability of the synergistically built dual nanostructure of NiCo ₂ S ₄ /nickel foam as an electrode in supercapacitors. <i>Nanoscale</i> , 2020, 12, 22330-22339.	5.6	12
35	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> , 2021, 889, 161632.	5.5	12
36	New insight on nanostructure assembling of high-performance electrode materials: synthesis of surface-modified hexagonal γ -Ni(OH) ₂ nanosheets as an example. <i>Ionics</i> , 2016, 22, 573-579.	2.4	11

#	ARTICLE	IF	CITATIONS
37	Synthesis of periodically stacked 2D composite of $\text{Ni}(\text{OH})_2$ monolayer and reduced graphene oxide as electrode material for high performance supercapacitor. <i>Advanced Powder Technology</i> , 2018, 29, 631-638.	4.1	10
38	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.	1.5	10
39	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.	2.4	9
40	Aqueous foams stabilized solely by CoOOH nanoparticles and the resulting construction of hierarchically hollow structure. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	9
41	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.	5.5	9
42	Surfactant-free large scale synthesis of Co_3O_4 quantum dots at room temperature. <i>Advanced Powder Technology</i> , 2016, 27, 2019-2024.	4.1	9
43	Building an interpenetrating network of $\text{Ni}(\text{OH})_2$ /reduced graphene oxide composite by a sol-gel method. <i>Journal of Materials Science</i> , 2018, 53, 15118-15129.	3.7	9
44	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.	2.4	8
45	Highly transparent silica monoliths embedded with high concentration oxide nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 512-517.	2.4	8
46	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.	2.4	8
47	High shear-granulated hierarchically porous spheres nanostructure-designed for high-performance supercapacitors. <i>Advanced Powder Technology</i> , 2019, 30, 2440-2449.	4.1	8
48	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.	5.6	8
49	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.	2.4	7
50	Exfoliation-free Nanosheet Synthesis of Transition-metal Hydroxynitrate and Its Transformation to Oxide Particulate Nanosheet. <i>Chemistry Letters</i> , 2007, 36, 144-145.	1.3	6
51	Template-free sol-gel synthesis of microporous NiO-SiO_2 composite with high surface area and narrow pore size distribution. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 47, 360-364.	2.4	6
52	Preparation of $\text{Ni-Co}(\text{OH})_2$ monolayer nanosheets by an intercalation agent-free exfoliation process. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 293-298.	2.4	6
53	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.	2.4	6
54	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.	5.5	6

#	ARTICLE	IF	CITATIONS
55	Sol-gel preparation of highly transparent Fe^{2+} - Fe_2O_3 film for the application in red color filter. Journal of Sol-Gel Science and Technology, 2011, 57, 20-23.	2.4	5
56	High water solubility and sol-gel transition behavior of titania nanoparticles obtained by an in situ functionalization sol-gel process. Journal of Sol-Gel Science and Technology, 2014, 70, 355-360.	2.4	5
57	Hierarchically structured nanofelt-like Fe^{2+} - NiOOH grown on nickel foam as electrode for high performance pseudocapacitor. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	5
58	Construction of cobalt substituted Fe^{2+} - $\text{Ni}(\text{OH})_2$ hierarchical nanostructure from nanofibers on nickel foam and its electrochemical performance. Solid State Ionics, 2015, 281, 38-42.	2.7	5
59	Morphology and phase control of iron oxide polymorph nanoparticles. Materials Research Express, 2017, 4, 045006.	1.6	5
60	In situ template synthesis of SnO nanoparticles on nickel foam with high electrochemical performance. Journal of Sol-Gel Science and Technology, 2018, 86, 423-430.	2.4	5
61	Surface topography control of NiS/Ni ₃ S ₄ nanosheets for the promotion of electrochemical performance. Journal of Sol-Gel Science and Technology, 2018, 87, 546-553.	2.4	5
62	In situ synthesis of two-dimensional Co ²⁺ -doped Fe^{2+} - $\text{Ni}(\text{OH})_2$ using nickel complex as template for application in supercapacitors. Journal of Sol-Gel Science and Technology, 2019, 89, 492-499.	2.4	5
63	A branched nanosheet-interlaced structure of high performance $\text{Ni}(\text{OH})_2$ derived from the isostructural $\text{Ni}_3(\text{NO}_3)_2(\text{OH})_4$ to clarify the role of structure self-supporting in cycling stability. Sustainable Energy and Fuels, 2020, 4, 1780-1788.	4.9	5
64	Branched nanosheets-interlaced structure of Co ²⁺ /Co ³⁺ -doped $\text{Ni}(\text{OH})_2$ originating from $\text{Ni}_3(\text{NO}_3)_2(\text{OH})_4$ template with significantly boosted electrochemical performance. Journal of Materials Science, 2021, 56, 3011-3023.	3.7	5
65	A general ultra large scale strategy for low temperature sol-gel synthesis of nearly monodispersed metal ions doped Fe^{3+} - Fe_2O_3 nanoparticles. Journal of Sol-Gel Science and Technology, 2011, 58, 232-237.	2.4	4
66	Redispersity/Solubility of Nanopowder in Solvents. Recent Patents on Nanotechnology, 2014, 8, 18-30.	1.3	4
67	Oxidation effect of ammonium persulfate on the supercapacitive properties of Fe^{2+} - $\text{Ni}(\text{OH})_2$ nanosheets. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 215-220.	1.8	4
68	Electrically conductive TiO ₂ /indium tin oxide coated glass substrates with high visible light transparency prepared by an electrodeposition method. Thin Solid Films, 2019, 691, 137612.	1.8	4
69	Nanosheets self-supported structure in the orderly porous spheres of Co/Mn ions co-substituted Fe^{2+} - $\text{Ni}(\text{OH})_2$ for high-performance supercapacitors. Journal of Sol-Gel Science and Technology, 2021, 97, 422-430.	2.4	3
70	Tailoring the size and electrochemical performance of Mn ₃ O ₄ nanoparticles by controlling the precipitation process. Journal of Sol-Gel Science and Technology, 2016, 80, 326-332.	2.4	2
71	Graphitic SiC : A potential anode material for Na-ion battery with extremely high storage capacity. International Journal of Quantum Chemistry, 2021, 121, e26608.	2.0	2
72	Building homogeneous nanostructure in $\text{Ni}(\text{OH})_2$ /MWCNTs composite by electrostatic attraction. Micro and Nano Letters, 2019, 14, 1151-1156.	1.3	2

#	ARTICLE	IF	CITATIONS
73	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.	2.4	1
74	Nanoengineered Skeletonâ€”surface of Nickel Foam with Additional Dual Functions of Rateâ€”capability Promotion and Cyclingâ€”life Stabilization for Nickel Sulfide Electrodes. <i>ChemNanoMat</i> , 2020, 6, 1365-1372.	2.8	1
75	Basic cadmium salts as phaseâ€”directing agent for the phase and morphology control of metal hydroxychlorides. <i>Micro and Nano Letters</i> , 2017, 12, 285-288.	1.3	1
76	Emulsionâ€”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.	1.8	0