

# Chuncaï Kong

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,044  
citations

218677

26  
h-index

254184

43  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2991  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sweat-based wearable energy harvesting-storage hybrid textile devices. <i>Energy and Environmental Science</i> , 2018, 11, 3431-3442.	30.8	196
2	Cooperative Assembly of Magneto-Nanovesicles with Tunable Wall Thickness and Permeability for MRI-Guided Drug Delivery. <i>Journal of the American Chemical Society</i> , 2018, 140, 4666-4677.	13.7	138
3	Facile synthesis of novel CuO/Cu <sub>2</sub> O nanosheets on copper foil for high sensitive nonenzymatic glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 630-638.	7.8	113
4	A sensitive electrochemical nonenzymatic biosensor for the detection of H <sub>2</sub> O <sub>2</sub> released from living cells based on ultrathin concave Ag nanosheets. <i>Biosensors and Bioelectronics</i> , 2018, 106, 29-36.	10.1	88
5	Templating synthesis of hollow CuO polyhedron and its application for nonenzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7306-7312.	10.3	87
6	Nanoparticle-aggregated CuO nanoellipsoids for high-performance non-enzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10073.	10.3	80
7	Highly symmetric polyhedral Cu <sub>2</sub> O crystals with controllable-index planes. <i>CrystEngComm</i> , 2011, 13, 2217.	2.6	75
8	Manipulating Cu Nanoparticle Surface Oxidation States Tunes Catalytic Selectivity toward CH <sub>4</sub> or C <sub>2</sub> Products in CO <sub>2</sub> Electroreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2101424.	19.5	71
9	Synthesis of porous carbon nano-onions derived from rice husk for high-performance supercapacitors. <i>Applied Surface Science</i> , 2019, 488, 593-599.	6.1	57
10	Facet-selective growth of Cu <sub>2</sub> O heterogeneous architectures. <i>CrystEngComm</i> , 2012, 14, 40-43.	2.6	54
11	Unique polyhedral 26-facet CuS hollow architectures decorated with nanotwinned, mesostructural and single crystalline shells. <i>CrystEngComm</i> , 2011, 13, 6200.	2.6	39
12	Etching-limited branching growth of cuprous oxide during ethanol-assisted solution synthesis. <i>CrystEngComm</i> , 2011, 13, 2837.	2.6	39
13	Wearable, stable, highly sensitive hydrogel-graphene strain sensors. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 475-480.	2.8	38
14	Boosting areal energy density of 3D printed all-solid-state flexible microsupercapacitors via tailoring graphene composition. <i>Energy Storage Materials</i> , 2020, 30, 412-419.	18.0	38
15	Yolk-Shell Cu <sub>2</sub> O@CuO decorated RGO for High-Performance Lithium-Ion Battery Anode. <i>Energy and Environmental Materials</i> , 2022, 5, 253-260.	12.8	37
16	Surfactant-free synthesis of Cu <sub>2</sub> O yolk-shell cubes decorated with Pt nanoparticles for enhanced H <sub>2</sub> O <sub>2</sub> detection. <i>Chemical Communications</i> , 2018, 54, 8458-8461.	4.1	36
17	Synthesis and Crystal-Phase Engineering of Mesoporous Palladium-Boron Alloy Nanoparticles. <i>ACS Central Science</i> , 2020, 6, 2347-2353.	11.3	36
18	Twins in polyhedral 26-facet Cu <sub>7</sub> S <sub>4</sub> cages: Synthesis, characterization and their enhancing photochemical activities. <i>Dalton Transactions</i> , 2012, 41, 3214.	3.3	35

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19	Facet-dependent nonenzymatic glucose sensing properties of Cu <sub>2</sub> O cubes and octahedra. <i>New Journal of Chemistry</i> , 2016, 40, 6573-6576.	2.8	35
20	Copper sulfide cages wholly exposed with nanotwinned building blocks. <i>CrystEngComm</i> , 2012, 14, 67-70.	2.6	34
21	Template-assisted synthesis of CuO hollow nanotubes constructed by ultrathin nanosheets for lithium-ion battery applications. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156635.	5.5	34
22	Ag nanoparticles decorated PVA-co-PE nanofiber-based membrane with antifouling surface for highly efficient inactivation and interception of bacteria. <i>Applied Surface Science</i> , 2020, 506, 144664.	6.1	32
23	Selective-etching growth of urchin-like Cu <sub>2</sub> O architectures. <i>CrystEngComm</i> , 2011, 13, 6616.	2.6	31
24	Ultrafine RhNi Nanocatalysts Confined in Hollow Mesoporous Carbons for a Highly Efficient Hydrogen Production from Ammonia Borane. <i>Inorganic Chemistry</i> , 2021, 60, 6820-6828.	4.0	31
25	Facile hydroxyl-assisted synthesis of morphological Cu <sub>2</sub> O architectures and their shape-dependent photocatalytic performances. <i>New Journal of Chemistry</i> , 2014, 38, 4656-4660.	2.8	30
26	Seed-mediated synthesis of polyhedral 50-facet Cu <sub>2</sub> O architectures. <i>CrystEngComm</i> , 2011, 13, 5993.	2.6	29
27	Template-synthesis of hierarchical CuO nanoflowers constructed by ultrathin nanosheets and their application for non-enzymatic glucose detection. <i>Materials Letters</i> , 2018, 219, 134-137.	2.6	27
28	CuO ultrathin nanosheets decorated reduced graphene oxide as a high performance anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 805, 355-362.	5.5	27
29	Inter-embedded Au-Cu <sub>2</sub> O heterostructure for the enhanced hydrogen production from water splitting under the visible light. <i>Chemical Engineering Journal</i> , 2021, 405, 126709.	12.7	27
30	Polymeric Ligand-Mediated Regioselective Bonding of Plasmonic Nanoplates and Nanospheres. <i>Journal of the American Chemical Society</i> , 2020, 142, 17282-17286.	13.7	25
31	Localized surface plasmon enhanced electrocatalytic methanol oxidation of AgPt bimetallic nanoparticles with an ultra-thin shell. <i>Chemical Communications</i> , 2019, 55, 3943-3946.	4.1	24
32	Nanoparticle-aggregated paddy-like copper dendritic nanostructures. <i>CrystEngComm</i> , 2011, 13, 1916-1921.	2.6	23
33	Nanoparticle-aggregated hollow copper microcages and their surface-enhanced Raman scattering activity. <i>CrystEngComm</i> , 2013, 15, 6136.	2.6	23
34	Polyhedron-aggregated multi-facet Cu <sub>2</sub> O homogeneous structures. <i>CrystEngComm</i> , 2011, 13, 6040.	2.6	22
35	Zinc ion mediated synthesis of cuprous oxide crystals for non-enzymatic glucose detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8686-8694.	5.8	21
36	Intrinsic insight on localized surface plasmon resonance enhanced methanol electro-oxidation over a Au@AgPt hollow urchin-like nanostructure. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6638-6646.	10.3	19

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37	One-pot synthesis of etched Cu <sub>2</sub> O cubes with exposed {110} facets with enhanced visible-light-driven photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29479-29482.	2.8	18
38	Immobilized Seed-Mediated Growth of Two-Dimensional Array of Metallic Nanocrystals with Asymmetric Shapes. <i>ACS Nano</i> , 2018, 12, 1107-1119.	14.6	18
39	Cu <sup>2+</sup> /Cu <sub>2</sub> O Heterogeneous Architecture for the Enhanced CO Catalytic Oxidation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901643.	3.7	17
40	Nanoparticle-aggregated octahedral copper hierarchical nanostructures. <i>CrystEngComm</i> , 2011, 13, 63-66.	2.6	16
41	Nanocube-aggregated cauliflower-like copper hierarchical architectures: synthesis, growth mechanism and electrocatalytic activity. <i>CrystEngComm</i> , 2012, 14, 5737.	2.6	16
42	A Readily Accessible Functional Nanofibrous Membrane for High-Capacity Immobilization of Ag Nanoparticles and Ultrafast Catalysis Application. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801617.	3.7	15
43	Templated-synthesis of hierarchical Ag-AgBr hollow cubes with enhanced visible-light-responsive photocatalytic activity. <i>Applied Surface Science</i> , 2018, 443, 492-496.	6.1	14
44	Controllable <i>in situ</i> Synthesis of Cu <sup>2+</sup> /Cu <sub>2</sub> O Heterostructures with Enhanced Visible-Light Photocatalytic Activity. <i>ChemistrySelect</i> , 2018, 3, 10641-10645.	1.5	13
45	Modified thermal resistance networks model for transverse thermal conductivity of unidirectional fiber composite. <i>Composites Communications</i> , 2017, 6, 52-58.	6.3	12
46	Reaction mechanism, norbornene and ligand effects, and origins of meta-selectivity of Pd/norbornene-catalyzed C-H activation. <i>Chemical Science</i> , 2020, 11, 113-125.	7.4	11
47	2D hydrogenated boride as a reductant and stabilizer for <i>in situ</i> synthesis of ultrafine and surfactant-free carbon supported noble metal electrocatalysts with enhanced activity and stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18856-18862.	10.3	11
48	An Mn <sup>2+</sup> -mediated construction of rhombicuboctahedral Cu <sub>2</sub> O nanocrystals enclosed by jagged surfaces for enhanced enzyme-free glucose sensing. <i>CrystEngComm</i> , 2020, 22, 2042-2048.	2.6	11
49	Atomically ordered Rh <sub>2</sub> P catalysts anchored within hollow mesoporous carbon for efficient hydrogen production. <i>Chemical Communications</i> , 2021, 57, 12345-12348.	4.1	11
50	One-pot synthesis of ultrafine Ag-hydrogel composites with enhanced catalytic reduction of 4-nitrophenol. <i>Materials Letters</i> , 2019, 236, 530-533.	2.6	10
51	Cu <sub>2</sub> O-based binary and ternary photocatalysts for the degradation of organic dyes under visible light. <i>Ceramics International</i> , 2022, 48, 1757-1764.	4.8	10
52	Designated-Tailoring on {100} Facets of Cu <sub>2</sub> O Nanostructures: From Octahedral to Its Different Truncated Forms. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-11.	2.7	8
53	Magnetic field driven assembly of 1D-aligned silver superstructures. <i>CrystEngComm</i> , 2011, 13, 4827.	2.6	8
54	Low-Cost Synthetic Honeycomb-like Carbon Derived from Cotton as a Sulfur Host for the Enhanced Electrochemical Performances of Lithium-Sulfur Batteries. <i>Energy &amp; Fuels</i> , 2020, 34, 13096-13103.	5.1	8

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55	CoFe Nanoparticle-Decorated Reduced Graphene Oxide for the Highly Efficient Reduction of 4-Nitrophenol. <i>Langmuir</i> , 2021, 37, 10987-10993.	3.5	8
56	Copper-templated synthesis of gold microcages for sensitive surface-enhanced Raman scattering activity. <i>RSC Advances</i> , 2014, 4, 27074-27077.	3.6	7
57	Continuous UV irradiation synthesis of ultra-small Au nanoparticles decorated Cu <sub>2</sub> O with enhanced photocatalytic activity. <i>Composites Communications</i> , 2018, 9, 27-32.	6.3	6
58	Ultrathin Cu <sub>x</sub> O nanoflakes anchored Cu <sub>2</sub> O nanoarray for high-performance non-enzymatic glucose sensor. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 583-590.	2.5	6
59	RGO@Cu <sub>2</sub> O@Cu Ternary Nanocomposite for High-Performance Non-Enzymatic Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2021, 168, 087503.	2.9	6
60	Endohedral group-14-element clusters TM@E <sub>9</sub> (TM = Co, Ni, Cu; E = Ge, Sn, Pb) and their low-dimensional nanostructures: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20654-20665.	2.8	6
61	Stable Noble Gas Compounds Based on Superelectrophilic Anions [B <sub>12</sub> (BO) <sub>11</sub> ] <sup>+</sup> and [B <sub>12</sub> (OBO) <sub>11</sub> ] <sup>+</sup> . <i>ChemPhysChem</i> , 2021, 22, 2240-2246.	2.1	5
62	Enhancement of energy storage properties of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -based relaxor ferroelectric under moderate electric field. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	5
63	Nanosized nickel decorated sisal fibers with tailored aggregation structures for catalysis reduction of toxic aromatic compounds. <i>Industrial Crops and Products</i> , 2018, 119, 226-236.	5.2	4
64	Manipulating Cu Nanoparticle Surface Oxidation States Tunes Catalytic Selectivity toward CH <sub>4</sub> or C <sub>2+</sub> Products in CO <sub>2</sub> Electroreduction (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	0
65	Geometries, electronic structures, and bonding properties of endohedral Group 14 Zintl clusters <sc>TM</sc>@<sc>E<sub>10</sub></sc> (<sc>TM</sc> = Fe, Co, Ni; E = Ge, Sn, Pb). <i>Journal of Computational Chemistry</i> , 2022, 43, 828-838.	3.3	3
66	Stabilities, Electronic Structures, and Bonding Properties of Iron Complexes (E 1 E 2)Fe(CO) <sub>2</sub> (CNAr) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	2
67	Stabilities, Electronic Structures, and Bonding Properties of 20-Electron Transition Metal Complexes (Cp) <sub>2</sub> TMO and their One-Dimensional Sandwich Molecular Wires (Cp =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2021, 125, 721-730.	2.5	2
68	Caterpillar-like Ag@ZnO@C hollow nanocomposites for efficient solar photocatalytic degradation and disinfection. <i>Environmental Science: Nano</i> , 2022, 9, 975-987.	4.3	2
69	Rapid Oxidation Synthesis of Hollow Cupric Oxide-Decorated rGO with High Performance and Kinetically Enhanced Lithium Storage. <i>Energy &amp; Fuels</i> , 0, , .	5.1	1
70	Novel Design of 3-D Microstructure Contact Material Generating Autoexcitation Magnetic Field. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 1969-1974.	1.3	0
71	Theoretical Insight into 20-Electron Transition Metal Complexes (C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> TM(E) <sub>2</sub> (TM = Cr) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2021, 258, 2100417.	1.5	0
72	Designing stable <i>B<sub>12</sub></i> dianions <i>in silico</i> for Li- and Mg-ion battery applications. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 5201-5208.	6.0	0