

# Chun-Hong Kuo

## List of Publications by Year in descending order

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55  
papers

6,247  
citations

236925

25  
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182427

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55  
docs citations

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times ranked

9970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmonic Effects of Metallic Nanoparticles on the Performance of Polymer Bulk Heterojunction Solar Cells. <i>ACS Nano</i> , 2011, 5, 959-967.	14.6	959
2	Optimized Metal-Organic-Framework Nanospheres for Drug Delivery: Evaluation of Small-Molecule Encapsulation. <i>ACS Nano</i> , 2014, 8, 2812-2819.	14.6	716
3	Yolk-Shell Nanocrystal@ZIF-8 Nanostructures for Gas-Phase Heterogeneous Catalysis with Selectivity Control. <i>Journal of the American Chemical Society</i> , 2012, 134, 14345-14348.	13.7	608
4	Seed-Mediated Synthesis of Monodispersed Cu <sub>2</sub> O Nanocubes with Five Different Size Ranges from 40 to 420 nm. <i>Advanced Functional Materials</i> , 2007, 17, 3773-3780.	14.9	340
5	Morphologically controlled synthesis of Cu <sub>2</sub> O nanocrystals and their properties. <i>Nano Today</i> , 2010, 5, 106-116.	11.9	301
6	Fabrication of Truncated Rhombic Dodecahedral Cu <sub>2</sub> O Nanocages and Nanoframes by Particle Aggregation and Acidic Etching. <i>Journal of the American Chemical Society</i> , 2008, 130, 12815-12820.	13.7	286
7	Seed-Mediated Synthesis of Gold Nanocrystals with Systematic Shape Evolution from Cubic to Trisoctahedral and Rhombic Dodecahedral Structures. <i>Langmuir</i> , 2010, 26, 12307-12313.	3.5	286
8	Plasmonic-enhanced polymer photovoltaic devices incorporating solution-processable metal nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	272
9	Au Nanocrystal-Directed Growth of Au-Cu <sub>2</sub> O Core-Shell Heterostructures with Precise Morphological Control. <i>Journal of the American Chemical Society</i> , 2009, 131, 17871-17878.	13.7	237
10	Facet-Dependent and Au Nanocrystal-Enhanced Electrical and Photocatalytic Properties of Au-Cu <sub>2</sub> O Core-Shell Heterostructures. <i>Journal of the American Chemical Society</i> , 2011, 133, 1052-1057.	13.7	237
11	Facile Synthesis of Cu <sub>2</sub> O Nanocrystals with Systematic Shape Evolution from Cubic to Octahedral Structures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18355-18360.	3.1	222
12	Synthesis of Branched Gold Nanocrystals by a Seeding Growth Approach. <i>Langmuir</i> , 2005, 21, 2012-2016.	3.5	200
13	Thermal Aqueous Solution Approach for the Synthesis of Triangular and Hexagonal Gold Nanoplates with Three Different Size Ranges. <i>Inorganic Chemistry</i> , 2006, 45, 808-813.	4.0	178
14	Hydrothermal Synthesis of Monodispersed Octahedral Gold Nanocrystals with Five Different Size Ranges and Their Self-Assembled Structures. <i>Chemistry of Materials</i> , 2008, 20, 7570-7574.	6.7	159
15	Synthesis of Highly Faceted Pentagonal- and Hexagonal-Shaped Gold Nanoparticles with Controlled Sizes by Sodium Dodecyl Sulfate. <i>Langmuir</i> , 2004, 20, 7820-7824.	3.5	137
16	Cu <sub>2</sub> O Nanocrystal-Templated Growth of Cu <sub>2</sub> S Nanocages with Encapsulated Au Nanoparticles and In Situ Transmission X-ray Microscopy Study. <i>Advanced Functional Materials</i> , 2011, 21, 792-797.	14.9	134
17	Nanoscale-Phase-Separated Pd-Rh Boxes Synthesized via Metal Migration: An Archetype for Studying Lattice Strain and Composition Effects in Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 14691-14700.	13.7	113
18	The Effect of Lattice Strain on the Catalytic Properties of Pd Nanocrystals. <i>ChemSusChem</i> , 2013, 6, 1993-2000.	6.8	105

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19	Iodide-Mediated Control of Rhodium Epitaxial Growth on Well-Defined Noble Metal Nanocrystals: Synthesis, Characterization, and Structure-Dependent Catalytic Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 18417-18426.	13.7	95
20	Formation of hollow and mesoporous structures in single-crystalline microcrystals of metal-organic frameworks via double-solvent mediated overgrowth. <i>Nanoscale</i> , 2015, 7, 19408-19412.	5.6	77
21	Spiny Rhombic Dodecahedral CuPt Nanoframes with Enhanced Catalytic Performance Synthesized from Cu Nanocube Templates. <i>Chemistry of Materials</i> , 2017, 29, 5681-5692.	6.7	77
22	Mesoporous Nickel Ferrites with Spinel Structure Prepared by an Aerosol Spray Pyrolysis Method for Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2588-2594.	6.7	75
23	Turning the Halide Switch in the Synthesis of Au-Pd Alloy and Core-Shell Nanoicosahedra with Terraced Shells: Performance in Electrochemical and Plasmon-Enhanced Catalysis. <i>Nano Letters</i> , 2016, 16, 5514-5520.	9.1	65
24	Electrochemically Induced Surface Metal Migration in Well-Defined Core-Shell Nanoparticles and Its General Influence on Electrocatalytic Reactions. <i>ACS Nano</i> , 2014, 8, 9368-9378.	14.6	54
25	Size-Dependent Sulfur Poisoning of Silica-Supported Monodisperse Pt Nanoparticle Hydrogenation Catalysts. <i>ACS Catalysis</i> , 2012, 2, 2626-2629.	11.2	35
26	Sub-1-nm PtSn ultrathin sheet as an extraordinary electrocatalyst for methanol and ethanol oxidation reactions. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 54-62.	9.4	28
27	Aqueous Synthesis of Concave Rh Nanotetrahedra with Defect-Rich Surfaces: Insights into Growth-, Defect-, and Plasmon-Enhanced Catalytic Energy Conversion. <i>Chemistry of Materials</i> , 2018, 30, 4448-4458.	6.7	24
28	Strain-Enhanced Metallic Intermixing in Shape-Controlled Multilayered Core-Shell Nanostructures: Toward Shaped Intermetallics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10574-10580.	13.8	22
29	A new solution route for the synthesis of CuFeO <sub>2</sub> and Mg-doped CuFeO <sub>2</sub> as catalysts for dye degradation and CO <sub>2</sub> conversion. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157235.	5.5	20
30	Fabrication of Bimetallic Au-Pd-Au Nanobricks as an Archetype of Robust Nanoplasmonic Sensors. <i>Chemistry of Materials</i> , 2018, 30, 204-213.	6.7	17
31	Growth of Core-Shell GaN Nanostructures via a Conventional Reflux Method and the Formation of Hollow GaN Spheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3625-3630.	3.1	16
32	Investigating lattice strain impact on the alloyed surface of small Au@PdPt core-shell nanoparticles. <i>Nanoscale</i> , 2020, 12, 8687-8692.	5.6	16
33	New 2,3-diphenylquinoxaline containing organic D-A-A dyes with nickel oxide photocathode prepared by surfactant-mediated synthesis for high performance p-type dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019, 163, 761-774.	3.7	15
34	Recent Advances in Bimetallic Cu-Based Nanocrystals for Electrocatalytic CO <sub>2</sub> Conversion. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2168-2184.	3.3	15
35	Enhanced Production of Formic Acid in Electrochemical CO <sub>2</sub> Reduction over Pd-Doped BiOCl Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58799-58808.	8.0	12
36	NiCo <sub>2</sub> O <sub>4</sub> /graphene quantum dots (GQDs) for use in efficient electrochemical energy devices: An electrochemical and X-ray absorption spectroscopic investigation. <i>Catalysis Today</i> , 2020, 348, 290-298.	4.4	11

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37	Ultrathin Octahedral CuPt Nanocages Obtained by Facet Transformation from Rhombic Dodecahedral Core-Shell Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10544-10553.	6.7	10
38	Insights into Electrocatalytic Oxygen Evolution over Hierarchical FeCo <sub>2</sub> S <sub>4</sub> Nanospheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 431-440.	6.7	10
39	Probing the acoustic vibrations of complex-shaped metal nanoparticles with four-wave mixing. <i>Optics Express</i> , 2016, 24, 23747.	3.4	9
40	Flexible and free-standing polyvinyl alcohol-reduced graphene oxide-Cu <sub>2</sub> O/CuO thin films for electrochemical reduction of carbon dioxide. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 979-991.	2.9	9
41	Insights into Transformation of Icosahedral PdRu Nanocrystals into Lattice-Expanded Nanoframes with Strain Enhancement in Electrochemical Redox Reactions. <i>Chemistry of Materials</i> , 2022, 34, 2282-2291.	6.7	8
42	Electronic structures associated with enhanced photocatalytic activity in nanogap-engineered g-C <sub>3</sub> N <sub>4</sub> /Ag@SiO <sub>2</sub> hybrid nanostructures. <i>Applied Surface Science</i> , 2020, 514, 145907.	6.1	7
43	Enhancement of NH <sub>3</sub> Production in Electrochemical N <sub>2</sub> Reduction by the Cu-Rich Inner Surfaces of Beveled CuAu Nanoboxes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51839-51848.	8.0	7
44	Au-BINOL Hybrid Nanocatalysts: Insights into the Structure-Based Enhancement of Catalytic and Photocatalytic Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 5479-5489.	3.7	4
45	AuPd Nanicosahedra: Atomic-Level Surface Modulation for Optimization of Electrocatalytic and Photocatalytic Energy Conversion. <i>ACS Applied Energy Materials</i> , 2021, 4, 2652-2662.	5.1	4
46	Structure of a seeded palladium nanoparticle and its dynamics during the hydride phase transformation. <i>Communications Chemistry</i> , 2021, 4, .	4.5	4
47	Investigating metal-enhanced fluorescence effect on fluorescein by gold nanotriangles and nanocubes using time-resolved fluorescence spectroscopy. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 82-93.	1.4	3
48	Polyglutamine-Specific Gold Nanoparticle Complex Alleviates Mutant Huntingtin-Induced Toxicity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60894-60906.	8.0	3
49	Serial Morphological Transformations of Au Nanocrystals via Post-Synthetic Galvanic Dissolution and Recursive Growth. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29006-29014.	3.1	2
50	Formation of a p-n heterojunction photocatalyst by the interfacing of graphitic carbon nitride and delafossite CuGaO <sub>2</sub> . <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 1042-1050.	1.4	2
51	Interface-Controlled Synthesis of Au-BINOL Hybrid Nanostructures and Mechanism Study. <i>Langmuir</i> , 2018, 34, 13697-13704.	3.5	1
52	Fabrication of truncated rhombic dodecahedral Cu <sub>2</sub> O nanocages and nanoframes. , 2010, , .		0
53	Plasmonic-enhanced polymer photovoltaic devices incorporating Au nanoparticles. , 2010, , .		0
54	Structural Characterization of Bimetallic Nanocrystal Electrocatalysts. <i>Microscopy and Microanalysis</i> , 2016, 22, 1286-1287.	0.4	0

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55	Tailoring Heterogeneous Catalysts at the Atomic Level: In Memoriam, Prof. Chia-Kuang (Frank) Tsung. ACS Applied Materials & Interfaces, 2021, , .	8.0	0