

Hsin-Chieh Peng

List of Publications by Year in descending order

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31
papers

5,924
citations

186209

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395590

33
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34
all docs

34
docs citations

34
times ranked

7637
citing authors

#	ARTICLE	IF	CITATIONS
1	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. <i>Chemical Reviews</i> , 2016, 116, 10414-10472.	23.0	1,339
2	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals: Thermodynamic versus Kinetic Products. <i>Journal of the American Chemical Society</i> , 2015, 137, 7947-7966.	6.6	758
3	Seed-Mediated Growth of Colloidal Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 60-95.	7.2	581
4	Synthesis and Characterization of 9 nm Pt-Ni Octahedra with a Record High Activity of 3.3 A/mg _{Pt} for the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2013, 13, 3420-3425.	4.5	542
5	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6669-6673.	3.3	339
6	Use of Reduction Rate as a Quantitative Knob for Controlling the Twin Structure and Shape of Palladium Nanocrystals. <i>Nano Letters</i> , 2015, 15, 1445-1450.	4.5	180
7	Polyol Synthesis of Ultrathin Pd Nanowires via Attachment-Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014, 24, 131-139.	7.8	173
8	Synthesis and Characterization of Pd@Pt-Ni Core-Shell Octahedra with High Activity toward Oxygen Reduction. <i>ACS Nano</i> , 2014, 8, 10363-10371.	7.3	165
9	Quantitative Analysis of the Coverage Density of Br ⁺ Ions on Pd{100} Facets and Its Role in Controlling the Shape of Pd Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 3780-3783.	6.6	156
10	Facile Synthesis of Iridium Nanocrystals with Well-Controlled Facets Using Seed-Mediated Growth. <i>Journal of the American Chemical Society</i> , 2014, 136, 10878-10881.	6.6	146
11	Facile Synthesis of Palladium Right Bipyramids and Their Use as Seeds for Overgrowth and as Catalysts for Formic Acid Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 15706-15709.	6.6	139
12	Pd-Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014, 24, 7520-7529.	7.8	134
13	A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. <i>ChemCatChem</i> , 2015, 7, 2077-2084.	1.8	111
14	Penta-Twinned Copper Nanorods: Facile Synthesis via Seed-Mediated Growth and Their Tunable Plasmonic Properties. <i>Advanced Functional Materials</i> , 2016, 26, 1209-1216.	7.8	107
15	Pt-Ni octahedral nanocrystals as a class of highly active electrocatalysts toward the hydrogen evolution reaction in an alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12392-12397.	5.2	103
16	Shape-Controlled Metal Nanocrystals for Heterogeneous Catalysis. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 327-348.	3.3	96
17	Facile Synthesis of Gold Wavy Nanowires and Investigation of Their Growth Mechanism. <i>Journal of the American Chemical Society</i> , 2012, 134, 20234-20237.	6.6	95
18	Polyol Syntheses of Palladium Decahedra and Icosahedra as Pure Samples by Maneuvering the Reaction Kinetics with Additives. <i>ACS Nano</i> , 2014, 8, 7041-7050.	7.3	95

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19	Facile Synthesis of Ag Nanorods with No Plasmon Resonance Peak in the Visible Region by Using Pd Decahedra of 16 nm in Size as Seeds. <i>ACS Nano</i> , 2015, 9, 10523-10532.	7.3	88
20	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. <i>Nano Letters</i> , 2017, 17, 334-340.	4.5	87
21	Symmetry breaking during nanocrystal growth. <i>Chemical Communications</i> , 2017, 53, 4530-4541.	2.2	84
22	Confining the Nucleation and Overgrowth of Rh to the {111} Facets of Pd Nanocrystal Seeds: The Roles of Capping Agent and Surface Diffusion. <i>Journal of the American Chemical Society</i> , 2013, 135, 16658-16667.	6.6	73
23	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. <i>Angewandte Chemie</i> , 2017, 129, 60-98.	1.6	64
24	Toward a Quantitative Understanding of Symmetry Reduction Involved in the Seed-Mediated Growth of Pd Nanocrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 6643-6652.	6.6	53
25	Shape-controlled metal nanocrystals for catalytic applications. <i>MRS Bulletin</i> , 2014, 39, 727-737.	1.7	41
26	En Route to White-Light Generation Utilizing Nanocomposites Composed of Ultrasmall CdSe Nanodots and Excited-State Intramolecular Proton Transfer Dyes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1713-1720.	4.0	38
27	Coating Pt@Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. <i>ChemSusChem</i> , 2016, 9, 2209-2215.	3.6	35
28	Seed-Mediated Synthesis of Pd Nanocrystals: The Effect of Surface Capping on the Heterogeneous Nucleation and Growth. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11754-11761.	1.5	28
29	Pentatwinned Cu Nanowires with Ultrathin Diameters below 20 nm and Their Use as Templates for the Synthesis of Au-Based Nanotubes. <i>ChemNanoMat</i> , 2017, 3, 190-195.	1.5	25
30	Seed-Mediated Growth of Gold Nanocrystals: Changes to the Crystallinity or Morphology as Induced by the Treatment of Seeds with a Sulfur Species. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14132-14139.	1.2	17
31	The effect of surface capping on the diffusion of adatoms in the synthesis of Pd@Au core-shell nanocrystals. <i>Chemical Communications</i> , 2016, 52, 13159-13162.	2.2	17