

Madeline Vara

List of Publications by Year in descending order

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28
papers

3,107
citations

430874

18
h-index

552781

26
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29
all docs

29
docs citations

29
times ranked

5385
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanomaterials at Work in Biomedicine. <i>Chemical Reviews</i> , 2015, 115, 10410-10488.	47.7	986
2	Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. <i>Science</i> , 2015, 349, 412-416.	12.6	854
3	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. <i>Journal of the American Chemical Society</i> , 2015, 137, 15036-15042.	13.7	296
4	Synthesis and Characterization of Pt-Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , 2016, 16, 6644-6649.	9.1	150
5	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 Å°C, and Enhanced Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2019, 141, 7028-7036.	13.7	122
6	Quantitative Analysis of the Reduction Kinetics Responsible for the One-Pot Synthesis of Pd-Pt Bimetallic Nanocrystals with Different Structures. <i>Journal of the American Chemical Society</i> , 2016, 138, 12263-12270.	13.7	111
7	Synthesis and Characterization of Ru Cubic Nanocages with a Face-Centered Cubic Structure by Templating with Pd Nanocubes. <i>Nano Letters</i> , 2016, 16, 5310-5317.	9.1	110
8	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. <i>ACS Catalysis</i> , 2018, 8, 6948-6960.	11.2	66
9	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. <i>Chemistry of Materials</i> , 2017, 29, 9227-9237.	6.7	55
10	Understanding the Thermal Stability of Palladium-Platinum Core-Shell Nanocrystals by <i>In Situ</i> Transmission Electron Microscopy and Density Functional Theory. <i>ACS Nano</i> , 2017, 11, 4571-4581.	14.6	53
11	Platinum Cubic Nanoframes with Enhanced Catalytic Activity and Durability Toward Oxygen Reduction. <i>ChemSusChem</i> , 2016, 9, 2855-2861.	6.8	49
12	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. <i>ACS Nano</i> , 2019, 13, 7241-7251.	14.6	47
13	Oxidative Etching of Pd Decahedral Nanocrystals with a Penta-twinned Structure and Its Impact on Their Growth Behavior. <i>Chemistry of Materials</i> , 2017, 29, 5394-5400.	6.7	22
14	Water-Based Synthesis of Sub-10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2017, 3, 879-884.	2.8	22
15	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8647-8651.	13.8	21
16	Toward a Quantitative Understanding of the Sulfate-Mediated Synthesis of Pd Decahedral Nanocrystals with High Conversion and Morphology Yields. <i>Chemistry of Materials</i> , 2016, 28, 8800-8806.	6.7	20
17	Understanding the Stability of Pt-Based Nanocages under Thermal Stress Using <i>In Situ</i> Electron Microscopy. <i>ChemNanoMat</i> , 2018, 4, 112-117.	2.8	19
18	Facile Synthesis of Pd@Pt ₃ Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 414-419.	3.7	18

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19	Synthesis of Palladium Nanoscale Octahedra through a One-Pot, Dual-Reductant Route and Kinetic Analysis. <i>Chemistry - A European Journal</i> , 2018, 24, 6133-6139.	3.3	18
20	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. <i>ChemNanoMat</i> , 2018, 4, 66-70.	2.8	15
21	A Photochemical, Room-Temperature, and Aqueous Route to the Synthesis of Pd Nanocubes Enriched with Atomic Steps and Terraces on the Side Faces. <i>Chemistry of Materials</i> , 2017, 29, 4563-4571.	6.7	14
22	Facile synthesis of Pd concave nanocubes: From kinetics to mechanistic understanding and rationally designed protocol. <i>Nano Research</i> , 2018, 11, 3122-3131.	10.4	12
23	One-Pot Synthesis of Pd@Pt _n Core-Shell Icosahedral Nanocrystals in High Throughput through a Quantitative Analysis of the Reduction Kinetics. <i>Chemistry - A European Journal</i> , 2019, 25, 5322-5329.	3.3	12
24	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. <i>Angewandte Chemie</i> , 2017, 129, 8773-8777.	2.0	6
25	Hydroquinone-Based Synthesis of Pd Nanostructures and the Interplay of Surface Capping, Reduction Kinetics, Attachment, Diffusion, and Fusion. <i>Chemistry of Materials</i> , 2021, 33, 8430-8439.	6.7	6
26	Facile Synthesis of BaTiO ₃ Nanocubes with the Use of Anatase TiO ₂ Nanorods as a Precursor to Titanium Hydroxide. <i>ChemNanoMat</i> , 2016, 2, 873-878.	2.8	3
27	Detecting Localized Variation of Chemistry via Atomic-Resolution Secondary Electron Imaging. <i>Microscopy and Microanalysis</i> , 2015, 21, 1265-1266.	0.4	0
28	Facile Synthesis of Pd@Pt ₃ -4L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 376-376.	3.7	0