

# Michelle L Personick

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

3,255  
citations

331670

21  
h-index

330143

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining Rules for the Shape Evolution of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 14542-14554.	13.7	609
2	Concave Cubic Gold Nanocrystals with High-Index Facets. <i>Journal of the American Chemical Society</i> , 2010, 132, 14012-14014.	13.7	513
3	Shape Control of Gold Nanoparticles by Silver Underpotential Deposition. <i>Nano Letters</i> , 2011, 11, 3394-3398.	9.1	341
4	Making Sense of the Mayhem behind Shape Control in the Synthesis of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 18238-18247.	13.7	295
5	Stepwise Evolution of Spherical Seeds into 20-Fold Twinned Icosahedra. <i>Science</i> , 2012, 337, 954-957.	12.6	187
6	Plasmon-Mediated Syntheses of Metallic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13910-13940.	13.8	182
7	Synthesis and Isolation of {110}-Faceted Gold Bipyramids and Rhombic Dodecahedra. <i>Journal of the American Chemical Society</i> , 2011, 133, 6170-6173.	13.7	142
8	A Directional Entropic Force Approach to Assemble Anisotropic Nanoparticles into Superlattices. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13980-13984.	13.8	90
9	Chemically Isolating Hot Spots on Concave Nanocubes. <i>Nano Letters</i> , 2012, 12, 6218-6222.	9.1	80
10	Ozone-Activated Nanoporous Gold: A Stable and Storable Material for Catalytic Oxidation. <i>ACS Catalysis</i> , 2015, 5, 4237-4241.	11.2	76
11	Bottom-Up Synthesis of Gold Octahedra with Tailorable Hollow Features. <i>Journal of the American Chemical Society</i> , 2011, 133, 10414-10417.	13.7	69
12	Synthesis of Gold Hexagonal Bipyramids Directed by Planar-Twinned Silver Triangular Nanoprisms. <i>Journal of the American Chemical Society</i> , 2013, 135, 3800-3803.	13.7	67
13	Plasmon-Mediated Synthesis of Silver Cubes with Unusual Twinning Structures Using Short Wavelength Excitation. <i>Small</i> , 2013, 9, 1947-1953.	10.0	61
14	Selective Oxygen-Assisted Reactions of Alcohols and Amines Catalyzed by Metallic Gold: Paradigms for the Design of Catalytic Processes. <i>ACS Catalysis</i> , 2017, 7, 965-985.	11.2	56
15	The surface structure of silver-coated gold nanocrystals and its influence on shape control. <i>Nature Communications</i> , 2015, 6, 7664.	12.8	53
16	Systematic evaluation of new chiral stationary phases for supercritical fluid chromatography using a standard racemate library. <i>Journal of Chromatography A</i> , 2010, 1217, 1134-1138.	3.7	51
17	Active sites for methanol partial oxidation on nanoporous gold catalysts. <i>Journal of Catalysis</i> , 2016, 344, 778-783.	6.2	45
18	Anisotropic Nanoparticles as Shape-Directing Catalysts for the Chemical Etching of Silicon. <i>Journal of the American Chemical Society</i> , 2013, 135, 12196-12199.	13.7	44

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19	Exploiting basic principles to control the selectivity of the vapor phase catalytic oxidative cross-coupling of primary alcohols over nanoporous gold catalysts. <i>Journal of Catalysis</i> , 2015, 329, 78-86.	6.2	39
20	An Integrated Electrochemistry Approach to the Design and Synthesis of Polyhedral Noble Metal Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 21322-21335.	13.7	25
21	Importance of Platinum(II)-Assisted Platinum(IV) Substitution for the Oxidation of Guanosine Derivatives by Platinum(IV) Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 1352-1360.	4.0	22
22	Strategic synergy: advances in the shape control of bimetallic nanoparticles with dilute alloyed surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 104-117.	7.4	22
23	Defects by design: synthesis of palladium nanoparticles with extended twin defects and corrugated surfaces. <i>Nanoscale</i> , 2017, 9, 17914-17921.	5.6	19
24	Centrifugal Shape Sorting and Optical Response of Polyhedral Gold Nanoparticles. <i>Advanced Materials</i> , 2013, 25, 4023-4027.	21.0	17
25	Iodide-induced differential control of metal ion reduction rates: synthesis of terraced palladium-copper nanoparticles with dilute bimetallic surfaces. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22179-22188.	10.3	17
26	Halide-assisted metal ion reduction: emergent effects of dilute chloride, bromide, and iodide in nanoparticle synthesis. <i>Nanoscale</i> , 2019, 11, 15612-15621.	5.6	17
27	Growing Nanoscale Model Surfaces to Enable Correlation of Catalytic Behavior Across Dissimilar Reaction Environments. <i>Chemistry of Materials</i> , 2019, 31, 1121-1141.	6.7	17
28	Catalyst design for enhanced sustainability through fundamental surface chemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150077.	3.4	15
29	Bimetallic Nanoparticles with Exotic Facet Structures via Iodide-Assisted Reduction of Palladium. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600422.	2.3	15
30	Synthetic Routes to Shaped AuPt Core-Shell Particles with Smooth Surfaces Based on Design Rules for Au Nanoparticle Growth. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700401.	2.3	12
31	Plasmon-Mediated Synthesis of Hybrid Silver-Platinum Nanostructures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6853-6860.	3.1	12
32	Oxidation of a guanine derivative coordinated to a Pt(IV) complex initiated by intermolecular nucleophilic attacks. <i>Dalton Transactions</i> , 2011, 40, 2888.	3.3	8
33	Concave Cubes as Experimental Models of Catalytic Active Sites for the Oxygen-Assisted Coupling of Alcohols by Dilute (Ag)Au Alloys. <i>Topics in Catalysis</i> , 2018, 61, 348-356.	2.8	5
34	Potential-Controlled (R)Evolution: Electrochemical Synthesis of Nanoparticles with Well-Defined Shapes. <i>ChemNanoMat</i> , 2022, 8, .	2.8	5
35	Plasmon-Mediated Syntheses of Polyhedral Noble Metal Nanoparticles. , 2022, , 47-88.		2
36	Halide ions on metal nanoparticles for shape- and composition-controlled synthesis. , 2023, , 263-276.		1

#	ARTICLE	IF	CITATIONS
37	Bimetallic Nanoparticles: Bimetallic Nanoparticles with Exotic Facet Structures via Iodide-Assisted Reduction of Palladium (Part. Part. Syst. Charact. 5/2017). Particle and Particle Systems Characterization, 2017, 34, .	2.3	0