

# Chuan-Bo Gao

## List of Publications by Year in descending order

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78  
papers

5,296  
citations

81743

39  
h-index

85405

71  
g-index

82  
all docs

82  
docs citations

82  
times ranked

7907  
citing authors

#	ARTICLE	IF	CITATIONS
1	Encapsulated Metal Nanoparticles for Catalysis. <i>Chemical Reviews</i> , 2021, 121, 834-881.	23.0	426
2	Porous Au@Ag Nanospheres with High-Density and Highly Accessible Hotspots for SERS Analysis. <i>Nano Letters</i> , 2016, 16, 3675-3681.	4.5	388
3	Highly Stable Silver Nanoplates for Surface Plasmon Resonance Biosensing. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5629-5633.	7.2	313
4	Fully Alloyed Ag/Au Nanospheres: Combining the Plasmonic Property of Ag with the Stability of Au. <i>Journal of the American Chemical Society</i> , 2014, 136, 7474-7479.	6.6	272
5	Ligand-Exchange Assisted Formation of Au/TiO <sub>2</sub> Schottky Contact for Visible-Light Photocatalysis. <i>Nano Letters</i> , 2014, 14, 6731-6736.	4.5	265
6	Explaining the Size Dependence in Platinum Nanoparticle-Catalyzed Hydrogenation Reactions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15656-15661.	7.2	225
7	Templated Synthesis of Metal Nanorods in Silica Nanotubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 19706-19709.	6.6	191
8	Aqueous Synthesis of Ultrathin Platinum/Non-Noble Metal Alloy Nanowires for Enhanced Hydrogen Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11678-11682.	7.2	133
9	Synthesis and Characterization of Mesoporous Silica AMS-10 with Bicontinuous Cubic P6mm Symmetry. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4295-4298.	7.2	130
10	Formation Mechanism of Anionic Surfactant-Templated Mesoporous Silica. <i>Chemistry of Materials</i> , 2006, 18, 3904-3914.	3.2	123
11	Unconventional Route to Encapsulated Ultrasmall Gold Nanoparticles for High-Temperature Catalysis. <i>ACS Nano</i> , 2014, 8, 7297-7304.	7.3	113
12	One-step seeded growth of Au nanoparticles with widely tunable sizes. <i>Nanoscale</i> , 2012, 4, 2875.	2.8	110
13	Direct Assembly of Hydrophobic Nanoparticles to Multifunctional Structures. <i>Nano Letters</i> , 2011, 11, 3404-3412.	4.5	104
14	Silver-Modified Nanosized Ferroelectrics as a Novel Photocatalyst. <i>Small</i> , 2015, 11, 202-207.	5.2	102
15	Magnetic Tuning of Plasmonic Excitation of Gold Nanorods. <i>Journal of the American Chemical Society</i> , 2013, 135, 15302-15305.	6.6	98
16	Etching-Free Epitaxial Growth of Gold on Silver Nanostructures for High Chemical Stability and Plasmonic Activity. <i>Advanced Functional Materials</i> , 2015, 25, 5435-5443.	7.8	96
17	Gram-Scale Synthesis of Silica Nanotubes with Controlled Aspect Ratios by Templating of Nickel-Hydrazine Complex Nanorods. <i>Langmuir</i> , 2011, 27, 12201-12208.	1.6	90
18	Synthesis of ultrathin platinum nanoplates for enhanced oxygen reduction activity. <i>Chemical Science</i> , 2018, 9, 398-404.	3.7	85

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19	Designable Coordination Bonding in Mesopores as a pH-Responsive Release System. <i>Chemistry of Materials</i> , 2010, 22, 5437-5444.	3.2	80
20	Anionic surfactants templating route for synthesizing silica hollow spheres with different shell porosity. <i>Solid State Sciences</i> , 2011, 13, 721-728.	1.5	80
21	Gold Nanoframes by Nonepitaxial Growth of Au on AgI Nanocrystals for Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2015, 15, 4448-4454.	4.5	77
22	Seeded growth route to noble metal nanostructures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3898.	2.7	72
23	Synthesis of monodispersed mesoporous silica spheres (MMSSs) with controlled particle size using gemini surfactant. <i>Microporous and Mesoporous Materials</i> , 2010, 128, 203-212.	2.2	66
24	One-step growth of triangular silver nanoplates with predictable sizes on a large scale. <i>Nanoscale</i> , 2014, 6, 4513.	2.8	63
25	Gold and gold-silver alloy nanoparticles enhance the myogenic differentiation of myoblasts through p38 MAPK signaling pathway and promote in vivo skeletal muscle regeneration. <i>Biomaterials</i> , 2018, 175, 19-29.	5.7	63
26	Optimizing surface-engineered ultra-small gold nanoparticles for highly efficient miRNA delivery to enhance osteogenic differentiation of bone mesenchymal stromal cells. <i>Nano Research</i> , 2017, 10, 49-63.	5.8	62
27	Island Growth in the Seed-Mediated Overgrowth of Monometallic Colloidal Nanostructures. <i>Chem</i> , 2017, 3, 678-690.	5.8	61
28	Highly Strained Au-Ag-Pd Alloy Nanowires for Boosted Electrooxidation of Biomass-Derived Alcohols. <i>Nano Letters</i> , 2021, 21, 1074-1082.	4.5	61
29	Organically Functionalized Mesoporous Silica by Co-Structure-Directing Route. <i>Advanced Functional Materials</i> , 2010, 20, 2750-2768.	7.8	58
30	Fully alloyed Ag/Au nanorods with tunable surface plasmon resonance and high chemical stability. <i>Nanoscale</i> , 2017, 9, 14875-14880.	2.8	56
31	Amino and quaternary ammonium group functionalized mesoporous silica: An efficient ion-exchange method to remove anionic surfactant from AMS. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 299-307.	2.2	52
32	Holey Au-Ag alloy nanoplates with built-in hotspots for surface-enhanced Raman scattering. <i>Nanoscale</i> , 2016, 8, 15689-15695.	2.8	52
33	Ultrafine platinum/iron oxide nanoconjugates confined in silica nanoshells for highly durable catalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1366-1372.	5.2	51
34	pH-Responsive Drug Delivery System Based on Coordination Bonding in a Mesostructured Surfactant/Silica Hybrid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7230-7237.	1.5	50
35	Synthesis of Ultrasmall Platinum Nanoparticles on Polymer Nanoshells for Size-Dependent Catalytic Oxidation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9710-9717.	4.0	46
36	Dynamically Switchable Multicolor Electrochromic Films. <i>Small</i> , 2019, 15, e1804974.	5.2	46

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37	Size-Tailored Synthesis of Silver Quasi-Nanospheres by Kinetically Controlled Seeded Growth. <i>Langmuir</i> , 2013, 29, 10559-10565.	1.6	44
38	Explaining the Size Dependence in Platinum Nanoparticle-Catalyzed Hydrogenation Reactions. <i>Angewandte Chemie</i> , 2016, 128, 15885-15890.	1.6	44
39	A metal nanoparticle assembly with broadband absorption and suppressed thermal radiation for enhanced solar steam generation. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	44
40	Aqueous Synthesis of Ultrathin Platinum/Non-Noble Metal Alloy Nanowires for Enhanced Hydrogen Evolution Activity. <i>Angewandte Chemie</i> , 2018, 130, 11852-11856.	1.6	42
41	Self-assembly of noble metal nanoparticles into sub-100 nm colloidosomes with collective optical and catalytic properties. <i>Chemical Science</i> , 2017, 8, 6103-6110.	3.7	40
42	Molecular design of the surfactant and the co-structure-directing agent (CSDA) toward rational synthesis of targeted anionic surfactant templated mesoporous silica. <i>Journal of Materials Chemistry</i> , 2007, 17, 3591.	6.7	38
43	A Ligand-Exchange Route to Noble Metal Nanocrystals with a Clean Surface for Enhanced Optical and Catalytic Properties. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700075.	1.2	38
44	A Unique Disintegration-Reassembly Route to Mesoporous Titania Nanocrystalline Hollow Spheres with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2018, 28, 1704208.	7.8	37
45	Building High-Density Au-Ag Islands on Au Nanocrystals by Partial Surface Passivation. <i>Advanced Functional Materials</i> , 2018, 28, 1803199.	7.8	37
46	Stabilization of noble metal nanostructures for catalysis and sensing. <i>Nanoscale</i> , 2018, 10, 20492-20504.	2.8	36
47	Ultrathin Pt-Ag Alloy Nanotubes with Regular Nanopores for Enhanced Electrocatalytic Activity. <i>Chemistry of Materials</i> , 2018, 30, 7744-7751.	3.2	35
48	Formation of Diverse Mesophases Templated by a Diprotic Anionic Surfactant. <i>Chemistry - A European Journal</i> , 2008, 14, 11423-11428.	1.7	32
49	Synthesis of amino group functionalized monodispersed mesoporous silica nanospheres using anionic surfactant. <i>Microporous and Mesoporous Materials</i> , 2011, 139, 94-103.	2.2	31
50	Ultra-Small Platinum Nanoparticles Encapsulated in Sub-50 nm Hollow Titania Nanospheres for Low-Temperature Water-Gas Shift Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36954-36960.	4.0	31
51	Photocatalytic Surface-Initiated Polymerization on TiO <sub>2</sub> toward Well-Defined Composite Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 538-546.	4.0	31
52	Mesostructured silica based delivery system for a drug with a peptide as a cell-penetrating vector. <i>Microporous and Mesoporous Materials</i> , 2009, 122, 201-207.	2.2	30
53	Formation Mechanism and Size Control in One-Pot Synthesis of Mercapto-Silica Colloidal Spheres. <i>Langmuir</i> , 2011, 27, 3372-3380.	1.6	30
54	Scalable synthesis of sub-100 nm hollow carbon nanospheres for energy storage applications. <i>Nano Research</i> , 2018, 11, 1822-1833.	5.8	29

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55	Core-shell nanoparticles with tensile strain enable highly efficient electrochemical ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15373-15380.	5.2	26
56	Engineering conductive antioxidative antibacterial nanocomposite hydrogel scaffolds with oriented channels promotes structure-functional skeletal muscle regeneration. <i>Chemical Engineering Journal</i> , 2021, 425, 130333.	6.6	25
57	Formation of mesoporous Co <sub>3</sub> O <sub>4</sub> replicas of different mesostructures with different pore sizes. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 314-323.	2.2	21
58	Gold nanoshurikens with uniform sharp tips for chemical sensing by the localized surface plasmon resonance. <i>Nanoscale</i> , 2017, 9, 17037-17043.	2.8	21
59	Digestive ripening in the formation of monodisperse silver nanospheres. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1328-1333.	3.2	20
60	The Calculated Dielectric Function and Optical Properties of Bimetallic Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2721-2727.	1.5	20
61	Synthetic design towards targeted chiral anionic surfactant templated chiral mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 171-179.	2.2	18
62	Ligand-Mediated Self-Terminating Growth of Single-Atom Pt on Au Nanocrystals for Improved Formic Acid Oxidation Activity. <i>Advanced Energy Materials</i> , 2022, 12, 2103195.	10.2	17
63	Robust synthesis of ultrathin Au-Ag nanowires as a high-surface-area, synergistic substrate for constructing efficient Pt-based catalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22161-22169.	5.2	14
64	Customizable Ligand Exchange for Tailored Surface Property of Noble Metal Nanocrystals. <i>Research</i> , 2020, 2020, 2131806.	2.8	13
65	Controlled Synthesis of Octahedral Platinum-Based Mesocrystals by Oriented Aggregation. <i>Chemistry - A European Journal</i> , 2017, 23, 6803-6810.	1.7	10
66	Gold/oxide heterostructured nanoparticles for enhanced SERS sensitivity and reproducibility. <i>Rare Metals</i> , 2020, 39, 834-840.	3.6	10
67	Ultrathin Pt-Cu-Ni Ternary Alloy Nanowires with Multimetallic Interplay for Boosted Methanol Oxidation Activity. <i>ACS Applied Energy Materials</i> , 2021, 4, 6824-6832.	2.5	10
68	Nickel nanoparticles individually encapsulated in densified ceramic shells for thermally stable solar energy absorption. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3039-3045.	5.2	9
69	Sulfite modification of platinum nanoparticles modulates electrocatalytic formic acid oxidation activity. <i>Green Chemistry</i> , 2020, 22, 5838-5844.	4.6	7
70	Molecular design of AEC tri-block anionic surfactant towards rational synthesis of targeted thick-walled mesoporous silica. <i>Journal of Materials Chemistry</i> , 2009, 19, 3404.	6.7	5
71	Solid-to-Hollow Conversion of Silver Nanocrystals by Surface-Protected Etching. <i>Chemistry - A European Journal</i> , 2018, 24, 19038-19044.	1.7	3
72	Core/Shell Nanostructures: Etching-Free Epitaxial Growth of Gold on Silver Nanostructures for High Chemical Stability and Plasmonic Activity ( <i>Adv. Funct. Mater.</i> 34/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5568-5568.	7.8	2

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73	Ligand Exchange: A Ligand-Exchange Route to Nobel Metal Nanocrystals with a Clean Surface for Enhanced Optical and Catalytic Properties (Part. Part. Syst. Charact. 8/2017). Particle and Particle Systems Characterization, 2017, 34, .	1.2	1
74	TEM Studies of Bicontinuous Cubic Mesoporous Crystals. Studies in Surface Science and Catalysis, 2007, 165, 207-210.	1.5	0
75	Porous plasmonic nanoparticles for surface-enhanced Raman scattering applications. SPIE Newsroom, 0, , .	0.1	0
76	Gold (79Au). World Scientific Series in Nanoscience and Nanotechnology, 2019, , 761-834.	0.1	0
77	Methods for ligand exchange. , 2021, , .		0
78	Colloidal Au nanoplates: Synthesis, properties, and applications. , 2022, , .		0