

Chuan-Jian Zhong

List of Publications by Year in descending order

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253
papers

18,138
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9254

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all docs

258
docs citations

258
times ranked

17683
citing authors

#	ARTICLE	IF	CITATIONS
1	A self-healing coating based on facile pH-responsive nanocontainers for corrosion protection of magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 836-849.	5.5	42
2	A nickel-underlayer/LDH-midlayer/siloxane-toplayer composite coating for inhibiting galvanic corrosion between Ni layer and Mg alloy. <i>Chemical Engineering Journal</i> , 2022, 430, 132776.	6.6	9
3	Lattice Strain and Surface Activity of Ternary Nanoalloys under the Propane Oxidation Condition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11435-11447.	4.0	6
4	Nano-Filamented Textile Sensor Platform with High Structure Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15391-15400.	4.0	6
5	On the Counterintuitive Heterogeneous Electron Transfer Barrier Properties of Alkanethiolate Monolayers on Gold: Smooth versus Rough Surfaces. <i>Electroanalysis</i> , 2022, 34, 1936-1952.	1.5	3
6	A Low-Current and Multi-Channel Chemiresistor Array Sensor Device. <i>Sensors</i> , 2022, 22, 2781.	2.1	3
7	Silver-Copper Alloy Nanoinks for Ambient Temperature Sintering. <i>Langmuir</i> , 2022, 38, 5633-5644.	1.6	5
8	Coupling a titanium dioxide based heterostructure photoanode with electroless-deposited nickel-phosphorus alloy coating on magnesium alloy for enhanced corrosion protection. <i>Journal of Materials Science and Technology</i> , 2022, 126, 252-265.	5.6	13
9	Molecularly-tunable nanoelectrode arrays created by harnessing intermolecular interactions. <i>Chemical Science</i> , 2021, 12, 6081-6090.	3.7	3
10	Hydrogen production from water electrolysis: role of catalysts. <i>Nano Convergence</i> , 2021, 8, 4.	6.3	540
11	Alloying-realloying enabled high durability for Pt-Pd-3d-transition metal nanoparticle fuel cell catalysts. <i>Nature Communications</i> , 2021, 12, 859.	5.8	137
12	Recent Advances in Electrocatalysts for Proton Exchange Membrane Fuel Cells and Alkaline Membrane Fuel Cells. <i>Advanced Materials</i> , 2021, 33, e2006292.	11.1	300
13	Magneto-Plasmonic Nanoparticle Grid Biosensor with Enhanced Raman Scattering and Electrochemical Transduction for the Development of Nanocarriers for Targeted Delivery of Protected Anticancer Drugs. <i>Nanomaterials</i> , 2021, 11, 1326.	1.9	7
14	Strain sensors fabricated by surface assembly of nanoparticles. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113268.	5.3	28
15	Engineering Active Sites of Gold-Cuprous Oxide Catalysts for Electrocatalytic Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46577-46587.	4.0	8
16	Copper-alloy catalysts: structural characterization and catalytic synergies. <i>Catalysis Science and Technology</i> , 2021, 11, 5712-5733.	2.1	13
17	Multimetallic Catalysts and Electrocatalysts: Dynamic Core-Shell Nanostructures. <i>Nanostructure Science and Technology</i> , 2021, , 61-82.	0.1	1
18	Assessing Plasmonic Nanoprobes in Electromagnetic Field Enhancement for SERS Detection of Biomarkers. <i>Sensors</i> , 2021, 21, 8345.	2.1	4

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19	Development of a thiophene derivative modified LDH coating for Mg alloy corrosion protection. <i>Electrochimica Acta</i> , 2020, 330, 135186.	2.6	76
20	Origin of High Activity and Durability of Twisty Nanowire Alloy Catalysts under Oxygen Reduction and Fuel Cell Operating Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 1287-1299.	6.6	102
21	Dynamic Core-Shell and Alloy Structures of Multimetallic Nanomaterials and Their Catalytic Synergies. <i>Accounts of Chemical Research</i> , 2020, 53, 2913-2924.	7.6	79
22	Surface-Mediated Interconnections of Nanoparticles in Cellulosic Fibrous Materials toward 3D Sensors. <i>Advanced Materials</i> , 2020, 32, e2002171.	11.1	18
23	Surface oxygenation of multicomponent nanoparticles toward active and stable oxidation catalysts. <i>Nature Communications</i> , 2020, 11, 4201.	5.8	25
24	Strain-Modulated Platinum-Palladium Nanowires for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2020, 20, 2416-2422.	4.5	70
25	A multifunctional anode with P-doped Si nanoparticles in a stress-buffering network of poly- β -glutamate and graphene. <i>Chemical Communications</i> , 2020, 56, 14412-14415.	2.2	5
26	Nano-Silicon composite materials with N-doped graphene of controllable and optimal pyridinic-to-pyrrolic structural ratios for lithium ion battery. <i>Electrochimica Acta</i> , 2019, 321, 134742.	2.6	39
27	Poisonous Species in Complete Ethanol Oxidation Reaction on Palladium Catalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20853-20868.	1.5	39
28	Surface Partial-Charge-Tuned Enhancement of Catalytic Activity of Platinum Nanocatalysts for Toluene Oxidation. <i>ACS Catalysis</i> , 2019, 9, 7431-7442.	5.5	127
29	A simple vaporous probe with atomic-scale sensitivity to structural ordering and orientation of molecular assembly. <i>Chemical Science</i> , 2019, 10, 7104-7110.	3.7	7
30	Hollow copper-ceria microspheres with single and multiple shells for preferential CO oxidation. <i>CrystEngComm</i> , 2019, 21, 3619-3626.	1.3	14
31	Deviations from Vegard's law and evolution of the electrocatalytic activity and stability of Pt-based nanoalloys inside fuel cells by in operando X-ray spectroscopy and total scattering. <i>Nanoscale</i> , 2019, 11, 5512-5525.	2.8	33
32	Comparative mouse lung injury by nickel nanoparticles with differential surface modification. <i>Journal of Nanobiotechnology</i> , 2019, 17, 2.	4.2	50
33	From a Au-rich core/PtNi-rich shell to a Ni-rich core/PtAu-rich shell: an effective thermochemical pathway to nanoengineering catalysts for fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5143-5155.	5.2	25
34	Nanoalloy catalysts inside fuel cells: An atomic-level perspective on the functionality by combined in operando x-ray spectroscopy and total scattering. <i>Nano Energy</i> , 2018, 49, 209-220.	8.2	18
35	Efficient low-temperature hydrogenation of acetone on bimetallic Pt-Ru/C catalyst. <i>Journal of Catalysis</i> , 2018, 363, 52-62.	3.1	25
36	Nanoscale Lacing by Electrons. <i>Small</i> , 2018, 14, 1800598.	5.2	5

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37	Evolution of surface catalytic sites on thermochemically-tuned gold-palladium nanoalloys. <i>Nanoscale</i> , 2018, 10, 3849-3862.	2.8	5
38	Evolution of Active Sites in Pt-Based Nanoalloy Catalysts for the Oxidation of Carbonaceous Species by Combined in Situ Infrared Spectroscopy and Total X-ray Scattering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10870-10881.	4.0	12
39	Catalytic oxidation of propane over palladium alloyed with gold: an assessment of the chemical and intermediate species. <i>Catalysis Science and Technology</i> , 2018, 8, 6228-6240.	2.1	12
40	Electron Dose-Controlled Formation, Growth, and Assembly of Nanoclusters and Nanoparticles from Auophilic Au(I)-Thiolate Ensemble on Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40348-40357.	4.0	7
41	Revealing the Role of Phase Structures of Bimetallic Nanocatalysts in the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2018, 8, 11302-11313.	5.5	51
42	Effect of Chemical Composition on the Nanoscale Ordering Transformations of Physical Mixtures of Pd and Cu Nanoparticles. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-10.	1.5	2
43	Application of differential resonant high-energy X-ray diffraction to three-dimensional structure studies of nanosized materials: A case study of Pt-Pd nanoalloy catalysts. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 553-566.	0.0	11
44	Structural origin of high catalytic activity for preferential CO oxidation over CuO/CeO ₂ nanocatalysts with different shapes. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 665-676.	10.8	144
45	Highly Active and Stable Pt-Pd Alloy Catalysts Synthesized by Room-Temperature Electron Reduction for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2017, 4, 1600486.	5.6	101
46	Enhancing structure integrity and corrosion resistance of Mg alloy by a two-step deposition to avoid F ions etching to nano-SiO ₂ reinforcement. <i>Journal of Alloys and Compounds</i> , 2017, 705, 70-78.	2.8	53
47	Synthesis of Ultralong, Monodispersed, and Surfactant-Free Gold Nanowire Catalysts: Growth Mechanism and Electrocatalytic Properties for Methanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3108-3116.	1.5	24
48	Chemiresistive properties regulated by nanoscale curvature in molecularly-linked nanoparticle composite assembly. <i>Nanoscale</i> , 2017, 9, 4013-4023.	2.8	4
49	Effect of glucose on poly- ¹³ -glutamic acid metabolism in <i>Bacillus licheniformis</i> . <i>Microbial Cell Factories</i> , 2017, 16, 22.	1.9	27
50	Competitive C-C and C-H bond scission in the ethanol oxidation reaction on Cu(100) and the effect of an alkaline environment. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15444-15453.	1.3	25
51	Understanding Composition-Dependent Synergy of PtPd Alloy Nanoparticles in Electrocatalytic Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14128-14136.	1.5	56
52	Effect of surface physicochemical properties on the flocculation behavior of <i>Bacillus licheniformis</i> . <i>RSC Advances</i> , 2017, 7, 16049-16056.	1.7	9
53	Surface Atomic Structure and Functionality of Metallic Nanoparticles: A Case Study of Au-Pd Nanoalloy Catalysts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7854-7866.	1.5	20
54	Ruthenium-nickel-nickel hydroxide nanoparticles for room temperature catalytic hydrogenation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7869-7875.	5.2	100

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55	Charting the relationship between phase type-surface area-interactions between the constituent atoms and oxygen reduction activity of Pd-Cu nanocatalysts inside fuel cells by in operando high-energy X-ray diffraction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7355-7365.	5.2	14
56	Nanocontainer-Enhanced Self-Healing for Corrosion-Resistant Ni Coating on Mg Alloy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36247-36260.	4.0	109
57	Decoration of Nanofibrous Paper Chemiresistors with Dendronized Nanoparticles toward Structurally Tunable Negative-going Response Characteristics to Human Breathing and Sweating. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700380.	1.9	15
58	Assessing Interparticle Spatial Characteristics of DNA-Linked Core-Shell Nanoparticles with or without Magnetic Cores in Surface Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15767-15776.	1.5	5
59	Composition-Structure-Activity Correlation of Platinum-Ruthenium Nanoalloy Catalysts for Ethanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17077-17087.	1.5	17
60	Nanoparticle Based Printed Sensors on Paper for Detecting Chemical Species. , 2017, , .		6
61	Origin of Enhanced Activities for CO Oxidation and O ₂ Reaction over Composition-Optimized Pd ₅₀ Cu ₅₀ Nanoalloy Catalysts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11010-11020.	1.5	22
62	Platinum-nickel nanowire catalysts with composition-tunable alloying and faceting for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12557-12568.	5.2	45
63	Preparation of PdCu Alloy Nanocatalysts for Nitrate Hydrogenation and Carbon Monoxide Oxidation. <i>Catalysts</i> , 2016, 6, 96.	1.6	31
64	Synergistic catalytic properties of bifunctional nanoalloy catalysts in rechargeable lithium-oxygen battery. <i>Journal of Power Sources</i> , 2016, 326, 60-69.	4.0	12
65	“Squeezed” interparticle properties for plasmonic coupling and SERS characteristics of duplex DNA conjugated/linked gold nanoparticles of homo/hetero-sizes. <i>Nanotechnology</i> , 2016, 27, 325706.	1.3	13
66	Palladium modified gold nanoparticles as electrocatalysts for ethanol electrooxidation. <i>Journal of Power Sources</i> , 2016, 321, 264-269.	4.0	31
67	Detection of mixed volatile organic compounds and lung cancer breaths using chemiresistor arrays with crosslinked nanoparticle thin films. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 292-299.	4.0	33
68	Composition-Tunable PtCu Alloy Nanowires and Electrocatalytic Synergy for Methanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10476-10484.	1.5	106
69	Structural dynamics and activity of nanocatalysts inside fuel cells by in operando atomic pair distribution studies. <i>Nanoscale</i> , 2016, 8, 10749-10767.	2.8	26
70	Highly active and stable Pt (111) catalysts synthesized by peptide assisted room temperature electron reduction for oxygen reduction reaction. <i>Nano Energy</i> , 2016, 25, 26-33.	8.2	62
71	Composition Tunability and (111)-Dominant Facets of Ultrathin Platinum-Gold Alloy Nanowires toward Enhanced Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 12166-12175.	6.6	127
72	Composition- and Structure-Tunable Gold-Cobalt Nanoparticles and Electrocatalytic Synergy for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20082-20091.	4.0	36

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73	Nanoparticle-Structured Nanofibrous Membranes as Scaffolds for Flexible Sweat Sensors. ACS Sensors, 2016, 1, 1060-1069.	4.0	28
74	Assessment of aggregative growth of MnZn ferrite nanoparticles. Nanoscale, 2016, 8, 19359-19367.	2.8	6
75	Assessing the Role of Capping Molecules in Controlling Aggregative Growth of Gold Nanoparticles in Heated Solution. Chemistry - an Asian Journal, 2016, 11, 120-127.	1.7	5
76	Proteomic profiling of <i>Bacillus licheniformis</i> reveals a stress response mechanism in the synthesis of extracellular polymeric flocculants. Biotechnology and Bioengineering, 2016, 113, 797-806.	1.7	17
77	Construction of ultrafine and stable PtFe nano-alloy with ultra-low Pt loading for complete removal of CO in PROX at room temperature. Applied Catalysis B: Environmental, 2016, 180, 237-245.	10.8	51
78	Sensors: Nanoparticle-Structured Highly Sensitive and Anisotropic Gauge Sensors (Small 35/2015). Small, 2015, 11, 4508-4508.	5.2	2
79	Nanoparticle-Structured Highly Sensitive and Anisotropic Gauge Sensors. Small, 2015, 11, 4509-4516.	5.2	38
80	Ultrafine Nanoparticle-Supported Ru Nanoclusters with Ultrahigh Catalytic Activity. Small, 2015, 11, 4385-4393.	5.2	80
81	Nanoscale Alloying in Electrocatalysts. Catalysts, 2015, 5, 1465-1478.	1.6	6
82	Nanoalloy Printed and Pulse-Laser Sintered Flexible Sensor Devices with Enhanced Stability and Materials Compatibility. ACS Nano, 2015, 9, 6168-6177.	7.3	40
83	PdCu Nanoalloy Electrocatalysts in Oxygen Reduction Reaction: Role of Composition and Phase State in Catalytic Synergy. ACS Applied Materials & Interfaces, 2015, 7, 25906-25913.	4.0	75
84	SERS nanoprobes for bio-application. Frontiers of Chemical Science and Engineering, 2015, 9, 428-441.	2.3	13
85	CO oxidation on supported platinum group metal (PGM) based nanoalloys. Science China Chemistry, 2015, 58, 14-28.	4.2	9
86	Palladium-Gold Alloy Nanowire-Structured Interface for Hydrogen Sensing. ChemPlusChem, 2015, 80, 722-730.	1.3	7
87	Phase properties of carbon-supported platinum-gold nanoparticles for formic acid eletro-oxidation. Journal of Power Sources, 2015, 294, 201-207.	4.0	9
88	Synthesis-atomic structure-properties relationships in metallic nanoparticles by total scattering experiments and 3D computer simulations: case of Pt-Ru nanoalloy catalysts. Nanoscale, 2015, 7, 8122-8134.	2.8	19
89	Decoration of Co/Co ₃ O ₄ nanoparticles with Ru nanoclusters: a new strategy for design of highly active hydrogenation. Journal of Materials Chemistry A, 2015, 3, 11716-11719.	5.2	52
90	Catalytic activity of bimetallic catalysts highly sensitive to the atomic composition and phase structure at the nanoscale. Nanoscale, 2015, 7, 18936-18948.	2.8	53

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91	Harnessing the interparticle J-aggregate induced plasmonic coupling for surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28529-28533.	1.3	6
92	Surface Enhanced Raman Scattering Detection of Cancer Biomarkers with Bifunctional Nanocomposite Probes. <i>Analytical Chemistry</i> , 2015, 87, 10698-10702.	3.2	90
93	Composition-Structure-Activity Relationships for Palladium-Alloyed Nanocatalysts in Oxygen Reduction Reaction: An Ex-Situ/In-Situ High Energy X-ray Diffraction Study. <i>ACS Catalysis</i> , 2015, 5, 5317-5327.	5.5	41
94	Harvesting Nanocatalytic Heat Localized in Nanoalloy Catalyst as a Heat Source in a Nanocomposite Thin Film Thermoelectric Device. <i>Langmuir</i> , 2015, 31, 11158-11163.	1.6	1
95	Determination of ion pairing on capping structures of gold nanoparticles by phase extraction. <i>Analyst, The</i> , 2015, 140, 6239-6244.	1.7	8
96	Assessing Interparticle J-Aggregation of Two Different Cyanine Dyes with Gold Nanoparticles and Their Spectroscopic Characteristics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27786-27796.	1.5	5
97	Titration of gold nanoparticles in phase extraction. <i>Analyst, The</i> , 2015, 140, 8023-8032.	1.7	3
98	Synthesis of Different Ruthenium Nickel Bimetallic Nanostructures and an Investigation of the Structure-Activity Relationship for Benzene Hydrogenation to Cyclohexane. <i>ChemCatChem</i> , 2014, 6, 2039-2046.	1.8	38
99	Nanoalloying and phase transformations during thermal treatment of physical mixtures of Pd and Cu nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 025002.	2.8	14
100	Characterization of magnetic NiFe nanoparticles with controlled bimetallic composition. <i>Journal of Alloys and Compounds</i> , 2014, 587, 260-266.	2.8	46
101	Synthesis of Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014, 66, 37-79.	0.7	13
102	A distinct atomic structure-catalytic activity relationship in 3-10 nm supported Au particles. <i>Nanoscale</i> , 2014, 6, 532-538.	2.8	26
103	Nanoalloy catalysts: structural and catalytic properties. <i>Catalysis Science and Technology</i> , 2014, 4, 3570-3588.	2.1	57
104	Flexibility characteristics of a polyethylene terephthalate chemiresistor coated with a nanoparticle thin film assembly. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1893.	2.7	34
105	An aggregative growth process for controlling size, shape and composition of metal, alloy and core-shell nanoparticles toward desired bioapplications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6904-6916.	2.9	13
106	Nanoalloy catalysts for electrochemical energy conversion and storage reactions. <i>RSC Advances</i> , 2014, 4, 42654-42669.	1.7	31
107	Design of Functional Nanoparticles and Assemblies for Theranostic Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21752-21768.	4.0	35
108	Solving the nanostructure problem: exemplified on metallic alloy nanoparticles. <i>Nanoscale</i> , 2014, 6, 10048-10061.	2.8	32

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109	Atomic-Structural Synergy for Catalytic CO Oxidation over Palladium-Nickel Nanoalloys. <i>Journal of the American Chemical Society</i> , 2014, 136, 7140-7151.	6.6	104
110	Reducing Pt use in the catalysts for formic acid electrooxidation via nanoengineered surface structure. <i>Journal of Power Sources</i> , 2014, 257, 45-51.	4.0	16
111	DNA assembly and enzymatic cutting in solutions: a gold nanoparticle based SERS detection strategy. <i>Analyst</i> , 2013, 138, 4941.	1.7	18
112	Catalytic and Electrocatalytic Oxidation of Ethanol over Palladium-Based Nanoalloy Catalysts. <i>Langmuir</i> , 2013, 29, 9249-9258.	1.6	87
113	Atomic Ordering Enhanced Electrocatalytic Activity of Nanoalloys for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20715-20721.	1.5	45
114	Oxophilicity and Structural Integrity in Maneuvering Surface Oxygenated Species on Nanoalloys for CO Oxidation. <i>ACS Catalysis</i> , 2013, 3, 3075-3085.	5.5	27
115	Bifunctional nanoparticles for SERS monitoring and magnetic intervention of assembly and enzyme cutting of DNAs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4320.	2.9	27
116	Noble-transition metal nanoparticle breathing in a reactive gas atmosphere. <i>Nanoscale</i> , 2013, 5, 7379.	2.8	20
117	Pd decorated Fe/C nanocatalyst for formic acid electrooxidation. <i>Electrochimica Acta</i> , 2013, 111, 504-509.	2.6	38
118	Design and electrochemical characterization of ternary alloy electrocatalysts for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 196-206.	1.9	17
119	Resolving Atomic Ordering Differences in Group 11 Nanosized Metals and Binary Alloy Catalysts by Resonant High-Energy X-ray Diffraction and Computer Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22131-22141.	1.5	25
120	Biomolecular Recognition: Nanotransduction and Nanointervention. <i>ACS Symposium Series</i> , 2012, , 119-146.	0.5	2
121	Gold-Copper Nanoparticles: Nanostructural Evolution and Bifunctional Catalytic Sites. <i>Chemistry of Materials</i> , 2012, 24, 4662-4674.	3.2	85
122	Stability of Interdigitated Microelectrodes of Flexible Chemiresistor Sensors. <i>Journal of Display Technology</i> , 2012, 8, 377-384.	1.3	8
123	Nano-architectures of ordered hollow carbon spheres filled with carbon webs by template-free controllable synthesis. <i>Nanotechnology</i> , 2012, 23, 485404.	1.3	12
124	Role of Support-Nanoalloy Interactions in the Atomic-Scale Structural and Chemical Ordering for Tuning Catalytic Sites. <i>Journal of the American Chemical Society</i> , 2012, 134, 15048-15060.	6.6	89
125	Nanoscale alloying effect of gold-platinum nanoparticles as cathode catalysts on the performance of a rechargeable lithium-oxygen battery. <i>Nanotechnology</i> , 2012, 23, 305404.	1.3	40
126	Pt decorated PdAu/C nanocatalysts with ultralow Pt loading for formic acid electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9959-9966.	3.8	34

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127	MicroRNA Conjugated Gold Nanoparticles and Cell Transfection. <i>Analytical Chemistry</i> , 2012, 84, 26-29.	3.2	78
128	Gold-platinum alloy nanowires as highly sensitive materials for electrochemical detection of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2012, 757, 56-62.	2.6	72
129	Design of Ternary Nanoalloy Catalysts: Effect of Nanoscale Alloying and Structural Perfection on Electrocatalytic Enhancement. <i>Chemistry of Materials</i> , 2012, 24, 4283-4293.	3.2	47
130	Role of Metal Coordination Structures in Enhancement of Electrocatalytic Activity of Ternary Nanoalloys for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012, 2, 795-806.	5.5	62
131	Pt-Au Alloying at the Nanoscale. <i>Nano Letters</i> , 2012, 12, 4289-4299.	4.5	96
132	Electrocatalytic performance of Pt-based trimetallic alloy nanoparticle catalysts in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4627-4632.	3.8	33
133	Nanoparticle-structured thin film sensor arrays for breath sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 845-854.	4.0	28
134	Harnessing molecule-solid duality of nanoclusters/nanoparticles for nanoscale control of size, shape and alloying. <i>Chemical Communications</i> , 2011, 47, 9885.	2.2	9
135	Rigid, conjugated and shaped arylethyne as mediators for the assembly of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 1890-1901.	6.7	25
136	Gold-platinum nanoparticles: alloying and phase segregation. <i>Journal of Materials Chemistry</i> , 2011, 21, 4012-4020.	6.7	125
137	Molecularly Mediated Thin Film Assembly of Nanoparticles on Flexible Devices: Electrical Conductivity versus Device Strains in Different Gas/Vapor Environment. <i>ACS Nano</i> , 2011, 5, 6516-6526.	7.3	70
138	Bacterial Inactivation Using Silver-Coated Magnetic Nanoparticles as Functional Antimicrobial Agents. <i>Analytical Chemistry</i> , 2011, 83, 8688-8695.	3.2	97
139	Nanoengineered PtCo and PtNi Catalysts for Oxygen Reduction Reaction: An Assessment of the Structural and Electrocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1682-1694.	1.5	173
140	Enhanced Oxygen Reduction Activity of Platinum Monolayer on Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 67-72.	2.1	80
141	Cationic recognition by tert-butylcalix[4]arene-functionalized nanoprobe. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5824.	1.3	17
142	Carbon-supported PtAu alloy nanoparticle catalysts for enhanced electrocatalytic oxidation of formic acid. <i>Journal of Power Sources</i> , 2011, 196, 8323-8330.	4.0	52
143	Nanoengineered PtVFe/C Cathode Electrocatalysts in PEM Fuel Cells: Catalyst Activity and Stability. <i>ChemCatChem</i> , 2011, 3, 583-593.	1.8	25
144	Structural and Electrocatalytic Properties of PtIrCo/C Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2011, 1, 562-572.	5.5	54

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145	Correlation between Atomic Coordination Structure and Enhanced Electrocatalytic Activity for Trimetallic Alloy Catalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 12714-12727.	6.6	96
146	Spontaneous reduction of O ₂ on PtVFe nanocatalysts. <i>Catalysis Today</i> , 2011, 165, 150-159.	2.2	31
147	Proton exchange membrane fuel cells with nanoengineered AuPt catalysts at the cathode. <i>Journal of Power Sources</i> , 2011, 196, 659-665.	4.0	31
148	Nano-engineered PtVFe catalysts in proton exchange membrane fuel cells: Electrocatalytic performance. <i>Electrochimica Acta</i> , 2010, 55, 8230-8236.	2.6	26
149	Core-Shell-Structured Magnetic Ternary Nanocubes. <i>Journal of the American Chemical Society</i> , 2010, 132, 17686-17689.	6.6	45
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