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**Synthesis of tetrahedral platinum nanocrystals with high-index facets and high electro-oxidation activity**

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2329	Chemistry. The new face of catalysis. <i>Science</i> , <b>2007</b> , 316, 699-700	33.3	49
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2145	Pt-Guided Formation of PtAg Alloy Nanoislands on Au Nanorods and Improved Methanol Electro-Oxidation. <b>2009</b> , 113, 10505-10510	80
2144	Reaction of Imidazoline-2-Selone with Acids and Its Use for Selective Coordination of Platinum Ions on Silica Surface. <b>2009</b> , 21, 2571-2573	30
2143	Single Nanoparticle Electrocatalysis: Effect of Monolayers on Particle and Electrode on Electron Transfer. <b>2009</b> , 113, 14978-14982	114
2142	Electrooxidation of CO on uniform arrays of Au nanoparticles: effects of particle size and interparticle spacing. <b>2009</b> , 25, 574-81	32
2141	Boron-Doped Palladium Nanoparticles on Carbon Black as a Superior Catalyst for Formic Acid Electro-oxidation. <b>2009</b> , 113, 8366-8372	131
2140	Studies on Surface Facets and Chemical Composition of Vapor Grown One-Dimensional Magnetite Nanostructures. <b>2009</b> , 9, 1077-1081	33
2139	Evolution of dendritic platinum nanosheets into ripening-resistant holey sheets. <b>2009</b> , 9, 1534-9	35
2138	Polyhedral Au nanocrystals exclusively bound by {110} facets: the rhombic dodecahedron. <b>2009</b> , 131, 1672-3	118
2137	Size Effect on Crystal Morphology of Faceted Face-Centered Cubic Fe Nanoparticles. <b>2009</b> , 113, 9450-9453	34
2136	Tuning the shape and catalytic activity of Fe nanocrystals from rhombic dodecahedra and tetragonal bipyramids to cubes by electrochemistry. <b>2009</b> , 131, 10860-2	90

2135	Hollow metal nanorods with tunable dimensions, porosity, and photonic properties. <b>2009</b> , 3, 1365-72	64
2134	Novel Mn <sub>3</sub> O <sub>4</sub> Micro-octahedra: Promising Cataluminescence Sensing Material for Acetone. <b>2009</b> , 21, 5066-5071	118
2133	A Density Functional Theory + U Study of Oxygen Vacancy Formation at the (110), (100), (101), and (001) Surfaces of Rutile TiO <sub>2</sub> . <b>2009</b> , 113, 7322-7328	192
2132	Magnetically recyclable Fe@Pt core-shell nanoparticles and their use as electrocatalysts for ammonia borane oxidation: the role of crystallinity of the core. <b>2009</b> , 131, 2778-9	164
2131	Surface Phase Diagram and Oxygen Coupling Kinetics on Flat and Stepped Pt Surfaces under Electrochemical Potentials. <b>2009</b> , 113, 9765-9772	61
2130	Specific peptide regulated synthesis of ultrasmall platinum nanocrystals. <b>2009</b> , 131, 15998-9	73
2129	Morphology Control and Structural Characterization of Au Crystals: From Twinned Tabular Crystals and Single-Crystalline Nanoplates to Multitwinned Decahedra. <b>2009</b> , 9, 3211-3217	25
2128	Surfactant-Assisted Hydrothermal Synthesis of Dendritic Magnetite Microcrystals. <b>2009</b> , 9, 820-824	32
2127	Phase transitions in various kinds of clusters. <b>2009</b> , 52, 137-164	49
2126	Synthesis of titania nanosheets with a high percentage of exposed (001) facets and related photocatalytic properties. <b>2009</b> , 131, 3152-3	1374
2125	Solvothermal synthesis and photoreactivity of anatase TiO <sub>2</sub> nanosheets with dominant {001} facets. <b>2009</b> , 131, 4078-83	1149
2124	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. <b>2009</b> , 21, 2875-2885	391
2123	Detection and Extraction of Pesticides from Drinking Water Using Nanotechnologies. <b>2009</b> , 191-212	2
2122	In situ and ex situ studies of platinum nanocrystals: growth and evolution in solution. <b>2009</b> , 131, 14590-5	151
2121	A general strategy for preparation of Pt 3d-transition metal (Co, Fe, Ni) nanocubes. <b>2009</b> , 131, 18543-7	300
2120	Synthesis and Application of Pt Nanocrystals with Controlled Crystallographic Planes. <b>2009</b> , 113, 18115-18120	44
2119	Carbon Nanotube/Silica Coaxial Nanocable as a Three-Dimensional Support for Loading Diverse Ultra-High-Density Metal Nanostructures: Facile Preparation and Use as Enhanced Materials for Electrochemical Devices and SERS. <b>2009</b> , 21, 2247-2257	88
2118	Tunable Thickness and Photoluminescence of Bipyramidal Hexagonal NaYF <sub>4</sub> Microdisks. <b>2009</b> , 21, 160-168	59

2117	Oleic Acid/Oleylamine Cooperative-Controlled Crystallization Mechanism for Monodisperse Tetragonal Bipyramid $\text{NaLa}(\text{MoO}_4)_2$ Nanocrystals. <b>2009</b> , 113, 12176-12185	146
2116	Geometry Influence on the Hysteresis Loops Behavior in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ Nanoparticles. Monte Carlo Simulation on a Heisenberg-Like Model. <b>2009</b> , 45, 5196-5199	10
2115	Solvothermal Synthesis of $\text{TiO}_2$ Nanocrystal Colloids from Peroxotitanate Complex Solution and Their Photocatalytic Activities. <b>2009</b> , 113, 18778-18783	64
2114	A micrometer-size $\text{TiO}_2$ single-crystal photocatalyst with remarkable 80% level of reactive facets. <b>2009</b> , 4381-3	317
2113	Rectangular Silver Nanorods: Controlled Preparation, Liquid-Liquid Interface Assembly, and Application in Surface-Enhanced Raman Scattering. <b>2009</b> , 9, 372-377	85
2112	Growth and Photocatalytic Activity of Dendrite-like [email protected] Heterostructure Nanocrystals. <b>2009</b> , 9, 3278-3285	194
2111	Roles of surface steps on Pt nanoparticles in electro-oxidation of carbon monoxide and methanol. <b>2009</b> , 131, 15669-77	179
2110	Phase transitions in metal clusters and cluster catalysts. <b>2009</b> , 113, 14220-6	9
2109	Delicate control of crystallographic facet-oriented $\text{Cu}_2\text{O}$ nanocrystals and the correlated adsorption ability. <b>2009</b> , 19, 5220	343
2108	Highly Catalytic Single-Crystal Dendritic Pt Nanostructures Supported on Carbon Nanotubes. <b>2009</b> , 21, 1531-1535	93
2107	Raspberry-like Hierarchical Au/Pt Nanoparticle Assembling Hollow Spheres with Nanochannels: An Advanced Nanoelectrocatalyst for the Oxygen Reduction Reaction. <b>2009</b> , 113, 5485-5492	65
2106	Pd-Pt bimetallic nanodendrites with high activity for oxygen reduction. <i>Science</i> , <b>2009</b> , 324, 1302-5	33-3 2605
2105	Nanoparticle catalysts with high energy surfaces and enhanced activity synthesized by electrochemical method. <b>2008</b> , 140, 81-92; discussion 93-112	157
2104	Controls of Tricalcium Phosphate Single-Crystal Formation from Its Amorphous Precursor by Interfacial Energy. <b>2009</b> , 9, 3154-3160	34
2103	Activating Pd by morphology tailoring for oxygen reduction. <b>2009</b> , 131, 602-8	417
2102	Formic Acid Oxidation at Pt/ $\text{H}_2\text{O}$ Interface from Periodic DFT Calculations Integrated with a Continuum Solvation Model. <b>2009</b> , 113, 17502-17508	210
2101	From Self-Assembled Microspheres to Self-Templated Nanotubes: Morphologies and Properties of Sulfur-Bridged Fluoranthene-Based Organic Materials. <b>2009</b> , 21, 5763-5771	9
2100	Electrochemical preparation of Pd nanorods with high-index facets. <b>2009</b> , 1502-4	139

2099	An introduction to global carbon cycle management. <b>2009</b> , 1-23	7
2098	Controlled synthesis and characterization of carbon-supported Pd <sub>4</sub> Co nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <b>2009</b> , 2, 124-132	43
2097	Nanocontact-induced catalytic activation in palladium nanoparticles. <b>2009</b> , 1, 391-4	19
2096	Variant shape growth of nanoparticles of metallic FePt, FePd and FePtPd alloys. <b>2009</b> , 11, 1309	47
2095	Rational preparation of faceted platinum nanocrystals supported on carbon nanotubes with remarkably enhanced catalytic performance. <b>2009</b> , 7167-9	39
2094	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. <b>2009</b> , 19, 8707	73
2093	Surface-specific overgrowth of platinum on shaped gold nanocrystals. <b>2009</b> , 11, 9759-65	31
2092	Facile formation of single crystalline Pt nanowires on a substrate utilising lyotropic liquid crystals consisting of cationic surfactants. <b>2009</b> , 19, 4205	10
2091	Catalytic activity of nickel nanoparticles in hydrogenation of p-nitrophenol to p-aminophenol. <b>2009</b> , 10, 2060-2064	30
2090	Shape effect of Pt nanocrystals on electrocatalytic hydrogenation. <b>2009</b> , 11, 7-10	34
2089	Phase transitions in different types of clusters. <b>2009</b> , 179, 147	17
2088	Polyhedral maghemite nanocrystals prepared by a flame synthetic method: preparations, characterizations, and catalytic properties. <b>2009</b> , 3, 1775-80	55
2087	Dumbbell-like Pt-Fe <sub>3</sub> O <sub>4</sub> nanoparticles and their enhanced catalysis for oxygen reduction reaction. <b>2009</b> , 9, 1493-6	440
2086	Composition and Shape Control in the Construction of Functional Nickel Hexacyanoferrate Nanointerfaces. <b>2009</b> , 113, 21577-21581	21
2085	Facile Synthesis of Three-Dimensional Dendritic Platinum Nanoelectrocatalyst. <b>2009</b> , 21, 3562-3569	158
2084	A Novel Approach for Monodisperse Samarium Orthovanadate Nanocrystals: Controlled Synthesis and Characterization. <b>2009</b> , 113, 18584-18595	35
2083	Recent Progress in Electrochemical Surface Science with Atomic and Molecular Levels. <b>2009</b> , 77, 2-20	55
2082	Recent Progress in Electrochemical Surface Science with Atomic and Molecular Levels. <b>2009</b> , 77, E1	2

2081	Electrochemical Fabrication of Cubic-Shaped Pt Nanoparticles onto Carbon Fiber Electrodes. <b>2010</b> , 78, 132-135	3
2080	Concave cubic gold nanocrystals with high-index facets. <b>2010</b> , 132, 14012-4	461
2079	Modified Nanoparticles as Nanoelectrocatalysts and Amplifying Sensors. <b>2010</b> , 297-318	
2078	Cuboctahedral Pd nanoparticles on WC for enhanced methanol electrooxidation in alkaline solution. <b>2010</b> , 46, 9241-3	33
2077	Catalysis with Transition Metal Nanoparticles in Colloidal Solution: Heterogeneous or Homogeneous?. <b>2010</b> , 395-414	3
2076	Platinum-based nanostructured materials: synthesis, properties, and applications. <b>2010</b> , 110, 3767-804	1133
2075	Thermally stable Pt/CeO(2) hetero-nanocomposites with high catalytic activity. <b>2010</b> , 132, 4998-9	174
2074	Application of green chemistry techniques to prepare electrocatalysts for direct methanol fuel cells. <b>2010</b> , 114, 3956-61	14
2073	Controllable synthesis and shape-dependent photocatalytic activity of ZnO nanorods with a cone and different aspect ratios and of short-and-fat ZnO microrods by varying the reaction temperature and time. <b>2010</b> , 100, 1061-1067	27
2072	The influence of the crystal structure of TiO <sub>2</sub> support material on Pd catalysts for formic acid electrooxidation. <b>2010</b> , 55, 851-856	28
2071	Pt decorating of PdNi/C as electrocatalysts for oxygen reduction. <b>2010</b> , 55, 1519-1522	27
2070	Structural effects on trends in the deposition and dissolution of metal-supported metal adstructures. <b>2010</b> , 55, 5545-5550	59
2069	Syntheses, characterization, and catalytic oxygen electroreduction activities of carbon-supported PtW nanoparticle catalysts. <b>2010</b> , 195, 2570-2578	18
2068	Nucleation and growth mechanisms for Pd-Pt bimetallic nanodendrites and their electrocatalytic properties. <b>2010</b> , 3, 69-80	177
2067	Shape-controlled CuCl crystallite catalysts for aniline coupling. <b>2010</b> , 3, 174-179	24
2066	New insights into the growth mechanism and surface structure of palladium nanocrystals. <b>2010</b> , 3, 180-188	88
2065	Electrochemical reactions at the electrode/solution interface: Theory and applications to water electrolysis and oxygen reduction. <b>2010</b> , 53, 543-552	9
2064	A simple solvothermal route towards the morphological control of ZnO and tuning of its optical and photocatalytic properties. <b>2010</b> , 53, 1711-1717	7



2063	Electrochemical quartz crystal microbalance study on Au-supported Pt adlayers for electrocatalytic oxidation of methanol in alkaline solution. <b>2010</b> , 53, 2349-2356	2
2062	Fluorescence enhancement of the silver nanoparticules--curcumin-cetyltrimethylammonium bromide-nucleic acids system and its analytical application. <b>2010</b> , 20, 843-50	6
2061	Angle Resolved TEM Imaging of Pt Nanoparticles. <b>2010</b> , 140, 85-89	3
2060	The morphology of mass selected ruthenium nanoparticles from a magnetron-sputter gas-aggregation source. <b>2010</b> , 12, 1249-1262	47
2059	Facile route to synthesis of Fe <sub>2</sub> O <sub>3</sub> /Pt urchin-like composites and their magnetic and electrocatalytic properties. <b>2010</b> , 123, 378-384	5
2058	Hydrothermal synthesis of cuboidal PbSe microcrystals via an EDTA reduction route. <b>2010</b> , 64, 771-774	9
2057	Fabrication of monometallic (Co, Pd, Pt, Au) and bimetallic (Pt/Au, Au/Pt) thin films with hierarchical architectures as electrocatalysts. <b>2010</b> , 12, 822-828	8
2056	Improving the Performance of Platinum Nanocrystal Catalysts by Square-wave Potential Electrochemical Pretreatment. <b>2010</b> , 10, 384-389	9
2055	Uniform Fe <sub>3</sub> O <sub>4</sub> Octahedra with Tunable Edge Length Synthesis by a Facile Polyol Route and Magnetic Properties. <b>2010</b> , 2010, 5635-5639	24
2054	Monodisperse Pt <sub>3</sub> Fe Nanocubes: Synthesis, Characterization, Self-Assembly, and Electrocatalytic Activity. <b>2010</b> , 20, 3727-3733	83
2053	An Electrochemical Approach to PtAg Alloy Nanostructures Rich in Pt at the Surface. <b>2010</b> , 20, 3734-3741	99
2052	Syntheses and Properties of Micro/Nanostructured Crystallites with High-Energy Surfaces. <b>2010</b> , 20, 3634-3645	221
2051	Metal Nanoplates on Semiconductor Substrates. <b>2010</b> , 20, 3646-3657	39
2050	Materials Research in China: Current Activities Related to Inorganic and Nonmetallic Materials. <b>2010</b> , 20, 3630-3633	
2049	Preparation of inorganic materials using ionic liquids. <b>2010</b> , 22, 261-85	669
2048	Nonspherical noble metal nanoparticles: colloid-chemical synthesis and morphology control. <b>2010</b> , 22, 1781-804	712
2047	Properties and applications of colloidal nonspherical noble metal nanoparticles. <b>2010</b> , 22, 1805-25	809
2046	Synthesis and characterization of noble-metal nanostructures containing gold nanorods in the center. <b>2010</b> , 22, 744-8	149

2045	Seed-mediated synthesis of truncated gold decahedrons with a AuCl/oleylamine complex as precursor. <b>2010</b> , 22, 1930-4	63
2044	Morphology-controlled synthesis of platinum nanocrystals with specific peptides. <b>2010</b> , 22, 1921-5	65
2043	Crystal habit-tuned nanoplate material of Li[Li <sub>1/3-2x/3</sub> NixMn <sub>2/3-x/3</sub> ]O for high-rate performance lithium-ion batteries. <b>2010</b> , 22, 4364-7	302
2042	Electroanalytical Measurements at Electrodes Modified with Metal Nanoparticles. <b>2010</b> , 283-317	
2041	Facile electrochemical preparation of Ag nanothorns and their growth mechanism. <b>2010</b> , 16, 6766-70	18
2040	Nanocrystal-based time-temperature indicators. <b>2010</b> , 16, 12559-63	112
2039	Composition-Dependent Electrocatalytic Activity of Pt-Cu Nanocube Catalysts for Formic Acid Oxidation. <b>2010</b> , 122, 1304-1307	46
2038	High-Index Faceted Platinum Nanocrystals Supported on Carbon Black as Highly Efficient Catalysts for Ethanol Electrooxidation. <b>2010</b> , 122, 421-424	48
2037	Kolloidale Hybridnanostrukturen: ein neuer Typ von Funktionsmaterialien. <b>2010</b> , 122, 4996-5016	69
2036	A Seed-Based Diffusion Route to Monodisperse Intermetallic CuAu Nanocrystals. <b>2010</b> , 122, 2979-2983	35
2035	Electrostatic Self-Assembly of a Pt-around-Au Nanocomposite with High Activity towards Formic Acid Oxidation. <b>2010</b> , 122, 2257-2260	24
2034	A Universal Approach to the Synthesis of Noble Metal Nanodendrites and Their Catalytic Properties. <b>2010</b> , 122, 5082-5086	48
2033	Palladium Nanoparticle Catalyzed Conversion of Iron Nanoparticles into Diameter- and Length-Controlled Fe <sub>2</sub> P Nanorods. <b>2010</b> , 122, 5848-5852	5
2032	Monodisperse Gold-Copper Bimetallic Nanocubes: Facile One-Step Synthesis with Controllable Size and Composition. <b>2010</b> , 122, 6933-6937	20
2031	Pd Adatom Decorated (100) Preferentially Oriented Pt Nanoparticles for Formic Acid Electrooxidation. <b>2010</b> , 122, 7152-7155	12
2030	Low-Symmetry Iron Oxide Nanocrystals Bound by High-Index Facets. <b>2010</b> , 122, 6472-6476	28
2029	Enhancing by Weakening: Electrooxidation of Methanol on Pt <sub>3</sub> Co and Pt Nanocubes. <b>2010</b> , 122, 7000-7003	40
2028	The Crystalline Structure of Gold Nanorods Revisited: Evidence for Higher-Index Lateral Facets. <b>2010</b> , 122, 9587-9590	22

2027	Composition-dependent electrocatalytic activity of Pt-Cu nanocube catalysts for formic acid oxidation. <b>2010</b> , 49, 1282-5	155
2026	High-index faceted platinum nanocrystals supported on carbon black as highly efficient catalysts for ethanol electrooxidation. <b>2010</b> , 49, 411-4	295
2025	Colloidal hybrid nanostructures: a new type of functional materials. <b>2010</b> , 49, 4878-97	668
2024	A seed-based diffusion route to monodisperse intermetallic CuAu nanocrystals. <b>2010</b> , 49, 2917-21	147
2023	Electrostatic self-assembly of a Pt-around-Au nanocomposite with high activity towards formic acid oxidation. <b>2010</b> , 49, 2211-4	270
2022	A universal approach to the synthesis of noble metal nanodendrites and their catalytic properties. <b>2010</b> , 49, 4962-6	265
2021	Palladium nanoparticle catalyzed conversion of iron nanoparticles into diameter- and length-controlled Fe <sub>2</sub> P nanorods. <b>2010</b> , 49, 5712-6	13
2020	Monodisperse gold-copper bimetallic nanocubes: facile one-step synthesis with controllable size and composition. <b>2010</b> , 49, 6781-5	67
2019	Pd adatom decorated (100) preferentially oriented Pt nanoparticles for formic acid electrooxidation. <b>2010</b> , 49, 6998-7001	78
2018	Low-symmetry iron oxide nanocrystals bound by high-index facets. <b>2010</b> , 49, 6328-32	117
2017	Enhancing by weakening: electrooxidation of methanol on Pt <sub>3</sub> Co and Pt nanocubes. <b>2010</b> , 49, 6848-51	173
2016	The crystalline structure of gold nanorods revisited: evidence for higher-index lateral facets. <b>2010</b> , 49, 9397-400	131
2015	Enhanced electrocatalytic reduction of CO <sub>2</sub> /H <sub>2</sub> O to paraformaldehyde at Pt/metal oxide interfaces. <b>2010</b> , 382, 277-283	19
2014	Co dendrite based bimetallic structures with nanoflake-built Pt covers and strong catalytic activity. <b>2010</b> , 351, 217-24	12
2013	Controlled synthesis of Pt nanoparticles via seeding growth and their shape-dependent catalytic activity. <b>2010</b> , 352, 379-85	18
2012	Facile fabrication of porous ZnO microspheres by thermal treatment of ZnS microspheres. <b>2010</b> , 174, 573-80	40
2011	Analysis of the kinetics of methanol oxidation in a porous PtRu anode. <b>2010</b> , 195, 1-10	44
2010	Converting cobalt oxide subunits in cobalt metal-organic framework into agglomerated Co <sub>3</sub> O <sub>4</sub> nanoparticles as an electrode material for lithium ion battery. <b>2010</b> , 195, 857-861	204

2009	Ultra low Pt-loading electrode prepared by displacement of electrodeposited Cu particles on a porous carbon electrode. <b>2010</b> , 35, 8071-8079	22
2008	Electrochemical characters and structure changes of electrochemically treated Pt nanoparticles. <b>2010</b> , 12, 14-17	11
2007	Atomic force microscopy of cubic Pt nanoparticles in electrochemical environments. <b>2010</b> , 12, 544-547	15
2006	Giant multilayer electrocatalytic effect investigation on Pt/Bi/Pt nanostructured electrodes towards CO and methanol electrooxidation. <b>2010</b> , 55, 7622-7627	18
2005	Fabrication and characterization of platinum nanoparticle arrays of controlled size, shape and orientation. <b>2010</b> , 55, 7934-7938	14
2004	Electrocatalytic reduction of nitric oxide on Pt nanocrystals of different shape in sulfuric acid solutions. <b>2010</b> , 55, 8273-8279	19
2003	Synthesis and catalytic properties of metal nanoparticles: Size, shape, support, composition, and oxidation state effects. <b>2010</b> , 518, 3127-3150	825
2002	Colloidal chemical approaches to inorganic micro- and nanostructures with controlled morphologies and patterns. <b>2010</b> , 254, 1054-1071	66
2001	Radiolytic syntheses of nanoparticles in supramolecular assemblies. <b>2010</b> , 159, 32-44	33
2000	Al <sup>3+</sup> -directed self-assembly and their electrochemistry properties of three-dimensional dendriform horseradish peroxidase/polyacrylamide/platinum/single-walled carbon nanotube composite film. <b>2010</b> , 25, 1186-92	22
1999	Silver triangular nanoplates as electrocatalyst for oxygen reduction reaction. <b>2010</b> , 12, 1609-1613	57
1998	Gold microplates with well-defined shapes. <b>2010</b> , 6, 1768-75	36
1997	Heteroepitaxial growth of nanoscale oxide shell/fiber superstructures by mild hydrothermal processes. <b>2010</b> , 6, 988-92	16
1996	Nanoclusters: Properties and processes. <b>2010</b> , 48, 846-859	2
1995	Converting homogeneous to heterogeneous in electrophilic catalysis using monodisperse metal nanoparticles. <b>2010</b> , 2, 36-41	254
1994	Nanocrystalline intermetallics on mesoporous carbon for direct formic acid fuel cell anodes. <b>2010</b> , 2, 286-93	405
1993	Dynamical Surface Properties of Platinum Nanoparticles Probed by Synchrotron Radiation X-rays. <b>2010</b> , 31, 525-530	
1992	Flowerlike submicrometer gold particles: Size- and surface roughness-controlled synthesis and electrochemical characterization. <b>2010</b> , 25, 1755-1760	8

1991	Nanochemistry [From Supramolecular Chemistry to Chemistry on the Nanoscale, Catalysis, Renewable Energy, Batteries, and Environmental Protection. <b>2010</b> , 477-526	
1990	A new shape of gold nanocrystals: singly twinned squashed dodecahedron. <b>2010</b> , 12, 4028	14
1989	EDTA-directed self-assembly and enhanced catalytic properties of sphere-constructed platinum nanochains. <b>2010</b> , 43, 115403	17
1988	Approaches to the Synthesis and Characterization of Spherical and Anisotropic Platinum Nanomaterials. <b>2010</b> ,	
1987	In situ real-time monitoring of Pt-VO <sub>2</sub> nanoparticle-nanowire assembly by GISAXS. <b>2010</b> ,	2
1986	Plasma Optics of Aggregated Tetrahedral Gold Nanocrystals: A Computational Study. <b>2010</b> ,	
1985	Seedless polyol synthesis and CO oxidation activity of monodisperse (111)- and (100)-oriented rhodium nanocrystals in sub-10 nm sizes. <b>2010</b> , 26, 16463-8	41
1984	Exclusively selective oxidation of toluene to benzaldehyde on ceria nanocubes by molecular oxygen. <b>2010</b> , 46, 5909-11	91
1983	Shape-Dependent Reducibility of Cuprous Oxide Nanocrystals. <b>2010</b> , 114, 6676-6680	79
1982	Enhanced Catalytic Activity of Pt Nanomaterials: From Monodisperse Nanoparticles to Self-Organized Nanoparticle-Linked Nanowires. <b>2010</b> , 114, 6909-6913	64
1981	Synthesis of Silver Nanocubes in a Hydrophobic Binary Organic Solvent. <b>2010</b> , 22, 6272-6279	39
1980	Truncated octahedral Pt(3)Ni oxygen reduction reaction electrocatalysts. <b>2010</b> , 132, 4984-5	459
1979	Synthesis and electrocatalytic properties of cubic Mn-Pt nanocrystals (nanocubes). <b>2010</b> , 132, 7568-9	310
1978	Synthesis and oxygen reduction activity of shape-controlled Pt(3)Ni nanopolyhedra. <b>2010</b> , 10, 638-44	672
1977	Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. <b>2010</b> , 1, 1316-1320	115
1976	Tetragonal faceted-nanorods of anatase TiO <sub>2</sub> single crystals with a large percentage of active {100} facets. <b>2010</b> , 46, 2301-3	226
1975	One-pot synthesis and optical property of copper(I) sulfide nanodisks. <b>2010</b> , 49, 6601-8	85
1974	Control of the Surface of ZnO Nanostructures by Selective Wet-Chemical Etching. <b>2010</b> , 114, 10114-10118	33

1973	Synthesis and Electrocatalytic Activity of AuPd Alloy Nanodendrites for Ethanol Oxidation. <b>2010</b> , 114, 7689-7693	194
1972	Fabrication and growth mechanism of three-dimensional spherical TiO(2) architectures consisting of TiO(2) nanorods with {110} exposed facets. <b>2010</b> , 2, 2109-13	13
1971	Selective synthesis of nickel oxide nanowires and length effect on their electrochemical properties. <b>2010</b> , 2, 920-2	91
1970	Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. <b>2010</b> , 22, 6310-6318	348
1969	Direct access to metal or metal oxide nanocrystals integrated with one-dimensional nanoporous carbons for electrochemical energy storage. <b>2010</b> , 132, 15030-7	136
1968	Shape Effects of Cu <sub>2</sub> O Polyhedral Microcrystals on Photocatalytic Activity. <b>2010</b> , 114, 5073-5079	330
1967	Facile fabrication of hierarchical SnO(2) microspheres film on transparent FTO glass. <b>2010</b> , 49, 1679-86	32
1966	Shape control of platinum and palladium nanoparticles for catalysis. <b>2010</b> , 2, 2045-53	272
1965	Synthesis of platinum cubes, polyods, cuboctahedrons, and raspberries assisted by cobalt nanocrystals. <b>2010</b> , 10, 964-73	126
1964	Novel Te/Pt Hybrid Nanowire with Nanoporous Surface: A Catalytically Active Nanoelectrocatalyst. <b>2010</b> , 114, 4797-4802	29
1963	Epitaxial overgrowth of platinum on palladium nanocrystals. <b>2010</b> , 2, 2406-11	59
1962	In Situ Formation of Three-Dimensional Uniform Pt/Carbon Nanotube Nanocomposites from Ionic Liquid/Carbon Nanotube Gel Matrix with Enhanced Electrocatalytic Activity toward Methanol Oxidation. <b>2010</b> , 114, 3575-3579	29
1961	Polyhedral 50-facet Cu <sub>2</sub> O microcrystals partially enclosed by {311} high-index planes: synthesis and enhanced catalytic CO oxidation activity. <b>2010</b> , 132, 17084-7	195
1960	Increased mass transport at lithographically defined 3-D porous carbon electrodes. <b>2010</b> , 2, 3179-84	18
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1958	Magnetic recoverable catalysts; assessment on CTAB-stabilized gold nanostructures. <b>2010</b> , 20, 326-330	9
1957	Seed-Mediated Synthesis of Monodisperse Concave Trisoctahedral Gold Nanocrystals with Controllable Sizes. <b>2010</b> , 114, 11119-11126	167
1956	Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. <b>2010</b> , 22, 2835-2841	130

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1953	Synthesis of nanocrystals with variable high-index Pd facets through the controlled heteroepitaxial growth of trisoctahedral Au templates. <b>2010</b> , 132, 18258-65	219
1952	Tunable Size and Shape Control of Platinum Nanocrystals from a Single Peptide Sequence. <b>2010</b> , 22, 6524-6528	48
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1950	Influences of precipitate rinsing solvents on Ni catalyst for methane decomposition to CO(x)-free hydrogen. <b>2010</b> , 114, 3818-23	19
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1948	Efficient Approaches for the Surface Modification of Platinum Nanoparticles via Click Chemistry. <b>2010</b> , 43, 9371-9375	13
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1944	Carbon Spheres with Controllable Silver Nanoparticle Doping. <b>2010</b> , 114, 977-982	239
1943	Synthesis of Tetrahedral Gold Nanocrystals with High-Index Facets. <b>2010</b> , 10, 3321-3323	55
1942	Constructing hierarchical spheres from large ultrathin anatase TiO <sub>2</sub> nanosheets with nearly 100% exposed (001) facets for fast reversible lithium storage. <b>2010</b> , 132, 6124-30	1149
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1933	Polystyrene Microspheres: Inactive Supporting Material for Recycling and Recovering Colloidal Nanocatalysts in Solution. <b>2010</b> , 1, 28-31	57
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1930	Ultrafast growth of highly branched palladium nanostructures for catalysis. <b>2010</b> , 4, 396-402	183
1929	A Review on Diverse Silver Nanostructures. <b>2010</b> , 26, 487-522	93
1928	Synthesis and surface activity of single-crystalline Co <sub>3</sub> O <sub>4</sub> (111) holey nanosheets. <b>2010</b> , 2, 1657-60	48
1927	Shape controlled growth of pyrite FeS <sub>2</sub> crystallites via a polymer-assisted hydrothermal route. <b>2010</b> , 12, 3797	49
1926	Tunable aqueous phase synthesis and shape-dependent electrochemical properties of rhodium nanostructures. <b>2010</b> , 49, 5515-21	55
1925	An Electrocatalyst for Methanol Oxidation in DMFC: PtBi/XC-72 with Pt Solid-Solution Structure. <b>2010</b> , 157, B580	14
1924	Synthesis of Mn <sub>3</sub> O <sub>4</sub> octahedrons and other manganese-based nanostructures through a simple and green route. <b>2010</b> , 12, 3401	37
1923	Nanoneedle-Covered PdAg Nanotubes: High Electrocatalytic Activity for Formic Acid Oxidation. <b>2010</b> , 114, 21190-21200	137
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1921	Rational synthesis of heterostructured nanoparticles with morphology control. <b>2010</b> , 132, 6524-9	134
1920	Fabrication and surface characterization of single crystal PtBi and PtPb (100) and (001) surfaces. <b>2010</b> , 12, 12978-86	11



1919	Kinetic Stabilization of Ordered Intermetallic Phases as Fuel Cell Anode Materials. <b>2010</b> , 114, 14929-14938	17
1918	Controllable Synthesis of TiO <sub>2</sub> Single Crystals with Tunable Shapes Using Ammonium-Exchanged Titanate Nanowires as Precursors. <b>2010</b> , 10, 2111-2115	109
1917	Hybrid materials based on Pd nanoparticles on carbon nanostructures for environmentally benign C-C coupling chemistry. <b>2010</b> , 2, 1390-400	75
1916	On the Role of Ascorbic Acid in the Synthesis of Single-Crystal Hyperbranched Platinum Nanostructures. <b>2010</b> , 10, 3454-3460	82
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1912	Electrochemical synthesis and catalytic property of sub-10 nm platinum cubic nanoboxes. <b>2010</b> , 10, 1492-6	123
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1909	Determination of the apparent transfer coefficient for CO oxidation on Pt(poly), Pt(111), Pt(665) and Pt(332) using a potential modulation technique. <b>2010</b> , 12, 2190-7	14
1908	Shape controlled synthesis of palladium nanocrystals by combination of oleylamine and alkylammonium alkylcarbamate and their catalytic activity. <b>2010</b> , 46, 8552-4	41
1907	Enhancement of the energy photoconversion efficiency through crystallographic etching of a c-plane GaN thin film. <b>2010</b> , 20, 8118	23
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1905	Microstructure, electrocatalytic and sensing properties of nanoporous Pt <sub>46</sub> Ni <sub>54</sub> alloy nanowires fabricated by mild dealloying. <b>2010</b> , 20, 5621	72
1904	Aqueous-based route toward noble metal nanocrystals: morphology-controlled synthesis and their applications. <b>2010</b> , 2, 2328-35	59
1903	Enhanced catalytic activity of Ce(1-x)M(x)O <sub>2</sub> (M = Ti, Zr, and Hf) solid solution with controlled morphologies. <b>2010</b> , 46, 3286-8	52
1902	Preparation of large thermally stable platinum nanocubes by using solvent-thermal reaction. <b>2010</b> , 46, 8606-8	12

1901	One-pot synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoprisms with controlled electrochemical properties. <b>2010</b> , 46, 3920-2	130
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1898	Synthesis and characterization of Pt(9)Co nanocubes with high activity for oxygen reduction. <b>2010</b> , 46, 4950-2	58
1897	Block copolymer-regulated synthesis of gold nanocrystals with sharp tips and edges. <b>2010</b> , 20, 6808	18
1896	Bioinspired synthesis of well faceted CuI nanostructures and evaluation of their catalytic performance for coupling reactions. <b>2010</b> , 12, 1442	22
1895	Asymmetric anatase TiO <sub>2</sub> nanocrystals with exposed high-index facets and their excellent lithium storage properties. <b>2011</b> , 3, 4082-4	55
1894	One-step synthesis of AgBr microcrystals with different morphologies by ILs-assisted hydrothermal method. <b>2011</b> , 13, 1789	45
1893	Submicro-polymer particles bearing imidazoline-2-selenone: dual mode adsorbents with color-sensing for halogens and mercury ions. <b>2011</b> , 2, 2512	19
1892	Morphology controllable growth of Pt nanoparticles/nanowires on carbon powders and its application as novel electro-catalyst for methanol oxidation. <b>2011</b> , 3, 5041-8	40
1891	Mn <sub>3</sub> O <sub>4</sub> catalyzed growth of polycrystalline Pt nanoparticles and single crystalline Pt nanorods with high index facets. <b>2011</b> , 47, 1009-11	23
1890	High index, reactive facet-controlled synthesis of one-dimensional single crystalline rare earth hydroxide nanobelts. <b>2011</b> , 13, 5367	3
1889	Single-crystal NaY(MoO <sub>4</sub> ) <sub>2</sub> thin plates with dominant {001} facets for efficient photocatalytic degradation of dyes under visible light irradiation. <b>2011</b> , 47, 8013-5	45
1888	Coreduced Pt/Ag Alloy Nanoparticles: Surface-Enhanced Raman Scattering and Electrocatalytic Activity. <b>2011</b> , 115, 23374-23380	40
1887	High Pt loading on functionalized multiwall carbon nanotubes as a highly efficient cathode electrocatalyst for proton exchange membrane fuel cells. <b>2011</b> , 21, 8066	78
1886	Morphology controlled uranium oxide hydroxide hydrate for catalysis, luminescence and SERS studies. <b>2011</b> , 13, 2878	31
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1884	Enhanced electrochemical catalytic activity of new nickel hydroxide nanostructures with (100) facet. <b>2011</b> , 13, 188-192	25

1883	Gold/Platinum nanosponges for electrocatalytic oxidation of methanol. <b>2011</b> , 13, 1029	23
1882	Carbonization over PFA-protected dispersed platinum: an effective route to synthesize high performance mesoporous-carbon supported Pt electrocatalysts. <b>2011</b> , 21, 12139	16
1881	One-pot shorter time synthesis of Cu <sub>2</sub> O particles and nanoframes with novel shapes. <b>2011</b> , 13, 6265	12
1880	Feasible synthesis of etched gold nanoplates with catalytic activity and SERS properties. <b>2011</b> , 13, 5488	17
1879	Polyhedron-aggregated multi-facet Cu <sub>2</sub> O homogeneous structures. <b>2011</b> , 13, 6040	22
1878	Facile synthesis and electrochemiluminescence application of concave trisoctahedral Pd@Au core-shell nanocrystals bound by {331} high-index facets. <b>2011</b> , 47, 10353-5	51
1877	Platinum nanoparticles using wood nanomaterials: eco-friendly synthesis, shape control and catalytic activity for p-nitrophenol reduction. <b>2011</b> , 13, 283-287	150
1876	Probing the crossover in CO desorption from single crystal to nanoparticulate Ru model catalysts. <b>2011</b> , 13, 10333-41	11
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1874	Decorating gold nano-spheres, -rods and -cubes with gold nanodots. <b>2011</b> ,	
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1869	Visualizing zeptomole (electro)catalysis at single nanoparticles within an ensemble. <b>2011</b> , 133, 10744-7	135
1868	Synergistic Effect of Ag and Pd Ions on Shape-Selective Growth of Polyhedral Au Nanocrystals with High-Index Facets. <b>2011</b> , 115, 3638-3645	90
1867	Crystal-Face-Selective Supporting of Gold Nanoparticles on Layered Double Hydroxide as Efficient Catalyst for Epoxidation of Styrene. <b>2011</b> , 1, 232-237	104
1866	Characterization of Tetrahedral Gold Nanocrystals: A Combined Study by Surface-Enhanced Raman Spectroscopy and Computational Simulations. <b>2011</b> , 115, 18061-18069	28

1865	1D nano- and microbelts self-assembled from the organic-inorganic hybrid molecules: oxadiazole-containing cyclotriphosphazene. <b>2011</b> , 27, 3982-90	24
1864	Electrocatalytic Performance of Gold Nanoparticles Supported on Activated Carbon for Methanol Oxidation in Alkaline Solution. <b>2011</b> , 115, 6986-6993	79
1863	Crystal Structure Origin for Shape-Dependent Emission of 2,5,8,11-Tetra-tert-butylperylene Micro-/Nanocrystals. <b>2011</b> , 11, 3677-3680	13
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1860	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <b>2011</b> , 23, 1570-1577	94
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1854	Rational design and SERS properties of side-by-side, end-to-end and end-to-side assemblies of Au nanorods. <b>2011</b> , 21, 14448	58
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1844	Nanomaterials of high surface energy with exceptional properties in catalysis and energy storage. <b>2011</b> , 40, 4167-85	668
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1842	Surface reconstruction precursor to melting in Au <sub>309</sub> clusters. <b>2011</b> , 1, 032105	5
1841	The {001} facets-dependent high photoactivity of BiOCl nanosheets. <b>2011</b> , 47, 6951-3	530
1840	Large-scaled star-shaped MnS nanocrystals with novel magnetic properties. <b>2011</b> , 47, 8100-2	35
1839	Unusual rutile TiO <sub>2</sub> nanosheets with exposed (001) facets. <b>2011</b> , 2, 2219	50
1838	Preparation of Nickel Nanoparticles in Spherical Polyelectrolyte Brush Nanoreactor and Their Catalytic Activity. <b>2011</b> , 50, 13848-13853	66
1837	A density functional theory approach to mushroom-like platinum clusters on palladium-shell over Au core nanoparticles for high electrocatalytic activity. <b>2011</b> , 13, 5441-9	26
1836	Attachment of Platinum Nanoparticles to Substrates by Coating and Polyol Reduction of A Platinum Precursor. <b>2011</b> , 115, 8519-8526	44
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1834	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. <b>2011</b> , 21, 7263	33
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1832	Hydrothermal Stability of {001} Faceted Anatase TiO <sub>2</sub> . <b>2011</b> , 23, 3486-3494	146
1831	Gold nanowire networks: synthesis, characterization, and catalytic activity. <b>2011</b> , 27, 3906-13	113
1830	Shape control of gold nanoparticles by silver underpotential deposition. <b>2011</b> , 11, 3394-8	300

1829	Strategic Synthesis of Trimetallic [email protected]Pt CoreShell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. <b>2011</b> , 23, 2457-2465	235
1828	Facile preparation of organic nanoparticles by interfacial cross-linking of reverse micelles and template synthesis of subnanometer Au-Pt nanoparticles. <b>2011</b> , 5, 2637-46	54
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1826	Shape-dependent electrocatalytic activity of monodispersed gold nanocrystals toward glucose oxidation. <b>2011</b> , 47, 6894-6	127
1825	Solid state precursor strategy for synthesizing hollow TiO <sub>2</sub> boxes with a high percentage of reactive {001} facets exposed. <b>2011</b> , 47, 6722-4	87
1824	Synthesis of platinum single-twinned right bipyramid and {111}-bipyramid through targeted control over both nucleation and growth using specific peptides. <b>2011</b> , 11, 3040-6	65
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1822	Synthesis of high-reactive facets dominated anatase TiO <sub>2</sub> . <b>2011</b> , 21, 7052	223
1821	Crystallography Facet-Dependent Antibacterial Activity: The Case of Cu <sub>2</sub> O. <b>2011</b> , 50, 10366-10369	96
1820	Synthesis of octahedral Mn <sub>3</sub> O <sub>4</sub> crystals and their derived Mn <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> heterostructures via oriented growth. <b>2011</b> , 13, 5685	48
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1818	Nanotechnology Research Directions for Societal Needs in 2020. <b>2011</b> ,	151
1817	Palladium thorn clusters as catalysts for electrooxidation of formic acid. <b>2011</b> , 4, 1522	40
1816	Tailoring Au-core Pd-shell Pt-cluster nanoparticles for enhanced electrocatalytic activity. <b>2011</b> , 2, 531-539	156
1815	Heteroepitaxial growth of high-index-faceted palladium nanoshells and their catalytic performance. <b>2011</b> , 133, 1106-11	272
1814	Surface Effect and Band-Gap Oscillation of TiO <sub>2</sub> Nanowires and Nanotubes. <b>2011</b> , 115, 13837-13843	19
1813	LiCoO <sub>2</sub> concaved cuboctahedrons from symmetry-controlled topological reactions. <b>2011</b> , 133, 262-70	28
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1811	From HCOOH to CO at Pd electrodes: a surface-enhanced infrared spectroscopy study. <b>2011</b> , 133, 14876-9	172
1810	Enhanced oxygen reduction at Pd catalytic nanoparticles dispersed onto heteropolytungstate-assembled poly(diallyldimethylammonium)-functionalized carbon nanotubes. <b>2011</b> , 13, 4400-10	44
1809	Morphology-controlled synthesis of hematite nanocrystals and their facet effects on gas-sensing properties. <b>2011</b> , 50, 10143-51	116
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1807	Electrodeposited palladium nanostructure as novel anode for direct formic acid fuel cell. <b>2011</b> , 21, 11352	48
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1805	Facile fabrication of branched gold nanoparticles by reductive hydroxyphenol derivatives. <b>2011</b> , 27, 2965-71	102
1804	One-pot synthesis and electrocatalytic activity of octapodal Au-Pd nanoparticles. <b>2011</b> , 47, 2553-5	76
1803	Amine-assisted synthesis of concave polyhedral platinum nanocrystals having {411} high-index facets. <b>2011</b> , 133, 4718-21	453
1802	Architecture of Metallic Nanostructures: Synthesis Strategy and Specific Applications. <b>2011</b> , 115, 3513-3527	145
1801	Enhancing photocatalytic activity of one-dimensional KNbO <sub>3</sub> nanowires by Au nanoparticles under ultraviolet and visible-light. <b>2011</b> , 3, 5161	114
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1798	Electrochemical fabrication of metallic nanostructured electrodes for electroanalytical applications. <b>2011</b> , 136, 5107-19	71
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1796	Shape dependent electrocatalysis. <b>2011</b> , 107, 263	131
1795	Synthesis of Pd-Pt bimetallic nanocrystals with a concave structure through a bromide-induced galvanic replacement reaction. <b>2011</b> , 133, 6078-89	364
1794	Bulk structures of PtO and PtO <sub>2</sub> from density functional calculations. <b>2011</b> , 84,	29

1793	Significantly enhancing catalytic activity of tetrahedral Pt nanocrystals by Bi adatom decoration. <b>2011</b> , 133, 12930-3	117
1792	Structure sensitivity and nanoscale effects in electrocatalysis. <b>2011</b> , 3, 2054-73	357
1791	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. <b>2011</b> , 23, 1079-1081	342
1790	A selective etching phenomenon on {001} faceted anatase titanium dioxide single crystal surfaces by hydrofluoric acid. <b>2011</b> , 47, 2829-31	117
1789	Synthesis of micro-sized titanium dioxide nanosheets wholly exposed with high-energy {001} and {100} facets. <b>2011</b> , 47, 4400-2	141
1788	Synthetic Chemistry of Nanomaterials. <b>2011</b> , 479-506	4
1787	Crystal facet engineering of semiconductor photocatalysts: motivations, advances and unique properties. <b>2011</b> , 47, 6763-83	753
1786	Methanol oxidation efficiencies on carbon-nanotube-supported platinum and platinum-ruthenium nanoparticles prepared by pulsed electrodeposition. <b>2011</b> , 36, 8261-8266	34
1785	The electrochemical discharges for the synthesis of nickel oxide nanoparticles: Characterization and mechanism. <b>2011</b> , 58, 12-18	25
1784	A Facile Synthesis of NiO Nanosheet with High-energy (111) Surface. <b>2011</b> , 40, 156-158	13
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1780	Morphology control of silver nano-crystals through a polyol synthesis. <b>2011</b> , 13, 1719-1723	5
1779	A highly stable TiB <sub>2</sub> -supported Pt catalyst for polymer electrolyte membrane fuel cells. <b>2011</b> , 196, 7931-7936	32
1778	Goethite hierarchical nanostructures: Glucose-assisted synthesis, chemical conversion into hematite with excellent photocatalytic properties. <b>2011</b> , 127, 371-378	55
1777	Bimetallic PtAu thin film electrocatalysts with hierarchical structures for the oxidation of formic acid. <b>2011</b> , 127, 484-488	8
1776	Polyol synthesis of silver nanoplates: The crystal growth mechanism based on a rivalrous adsorption. <b>2011</b> , 128, 77-82	17



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1773	Ag facilitated shape control of transition-metal nanoparticles. <b>2011</b> , 385, 85-90	6
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1771	Controlled growth of uniform noble metal nanocrystals: aqueous-based synthesis and some applications in biomedicine. <b>2011</b> , 88, 1-22	43
1770	Direct electrodeposition of porous platinum honeycomb structures. <b>2011</b> , 13, 1248-1251	55
1769	Morphology-dependent activity of Pt nanocatalysts for ethanol oxidation in acidic media: Nanowires versus nanoparticles. <b>2011</b> , 56, 9824-9830	44
1768	Boosting the performance of Pt electro-catalysts toward formic acid electro-oxidation by depositing sub-monolayer Au clusters. <b>2011</b> , 56, 10039-10043	11
1767	High-yield, size-controlled synthesis of silver nanoplates and their applications as methanol-tolerant electrocatalysts in oxygen reduction reaction. <b>2011</b> , 36, 10502-10512	24
1766	Displacement triangular Ag/Pd nanoplate as methanol-tolerant electrocatalyst in oxygen reduction reaction. <b>2011</b> , 36, 12706-12714	36
1765	Investigation of methanol electrooxidation on Au/C catalyst in alkaline medium. <b>2011</b> , 36, 13392-13397	22
1764	Effect of deposition potential on the structure and electrocatalytic behavior of Pt micro/nanoparticles. <b>2011</b> , 36, 15052-15059	35
1763	A Novel Method to Improve Crystallinity of Supported Nanoparticles Using Low Melting Point Metals. <b>2011</b> , 115, 14591-14597	12
1762	Morphology-controllable synthesis of cobalt oxalates and their conversion to mesoporous Co <sub>3</sub> O <sub>4</sub> nanostructures for application in supercapacitors. <b>2011</b> , 50, 6482-92	245
1761	Functional micro/nanostructures: simple synthesis and application in sensors, fuel cells, and gene delivery. <b>2011</b> , 44, 491-500	116
1760	Low-temperature CH <sub>4</sub> Catalytic Combustion over Pd Catalyst Supported on Co <sub>3</sub> O <sub>4</sub> Nanocrystals with Well-Defined Crystal Planes. <b>2011</b> , 3, 868-874	47
1759	Truncated ditetragonal gold prisms as nanofacet activators of catalytic platinum. <b>2011</b> , 133, 18074-7	61
1758	Mechanism of Oxygen Electro-Reduction on Au-Modified Pt: Minimizing O Coverage and Pt Site Exposure toward Highly Stable and Active Cathode. <b>2011</b> , 115, 17508-17515	25

1757	Morphology-controlled synthesis and electrocatalytic characteristics of platinum structures on micro-patterned carbon nanotube platforms. <b>2011</b> , 41, 1425-1431	12
1756	The renaissance of unsupported nanostructured catalysts for low-temperature fuel cells: from the size to the shape of metal nanostructures. <b>2011</b> , 46, 4435-4457	105
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1754	Tuning of size and shape of AuPt nanocatalysts for direct methanol fuel cells. <b>2011</b> , 13, 6347-6364	24
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1752	Protein-assisted synthesis route of metal nanoparticles: exploration of key chemistry of the biomolecule. <b>2011</b> , 13, 5485-5495	28
1751	Electrocatalytic interaction of nano-engineered palladium on carbon nanofibers with hydrogen peroxide and ENADH. <b>2011</b> , 15, 1287-1294	10
1750	Electrodeposition of monodispersed platinum nanoparticles on a glassy carbon electrode for sensing methanol. <b>2011</b> , 173, 383-389	16
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1748	Electro-catalytic oxidation of 1,2-propanediol at nanoporous and planar solid Pt electrodes. <b>2011</b> , 654, 13-19	17
1747	One-pot synthesis, optical property and self-assembly of monodisperse silver nanospheres. <b>2011</b> , 184, 1956-1962	14
1746	Crystallographic control of noble metal nanocrystals. <b>2011</b> , 6, 265-285	161
1745	Synthesis of monodisperse Ce x Zr1-x O2 nanocrystals and the size-dependent enhancement of their properties. <b>2011</b> , 4, 494-504	3
1744	Controlled synthesis and growth of perfect platinum nanocubes using a pair of low-resistivity fastened silicon wafers and their electrocatalytic properties. <b>2011</b> , 4, 541-549	16
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1740	Enhancement of the Electrocatalytic Activity of Gold Nanoparticles Towards Methanol Oxidation. <b>2011</b> , 2, 106-113	8

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1738	Facile synthesis of gold nanorice enclosed by high-index facets and its application for CO oxidation. <b>2011</b> , 7, 2307-12	54
1737	Shape- and Size-Controlled Synthesis of Uniform Anatase TiO <sub>2</sub> Nanocuboids Enclosed by Active {100} and {001} Facets. <b>2011</b> , 21, 3554-3563	218
1736	Shape Matters: Anisotropy of the Morphology of Inorganic Colloidal Particles $\square$ Synthesis and Function. <b>2011</b> , 21, 3214-3230	84
1735	Strategies for the fabrication of porous platinum electrodes. <b>2011</b> , 23, 4976-5008	151
1734	Nitrogen-doped carbon nanotube composite fiber with a core-sheath structure for novel electrodes. <b>2011</b> , 23, 4620-5	85
1733	Controllable Synthesis of Single-Crystalline Fe <sub>3</sub> O <sub>4</sub> Nanorice by a One-Pot, Surfactant-Assisted Hydrothermal Method and Its Properties. <b>2011</b> , 2011, 5384-5389	28
1732	Surfactant-Free Platinum-on-Gold Nanodendrites with Enhanced Catalytic Performance for Oxygen Reduction. <b>2011</b> , 123, 771-774	12
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1729	A Methanol-Tolerant Pt/CoSe <sub>2</sub> Nanobelt Cathode Catalyst for Direct Methanol Fuel Cells. <b>2011</b> , 123, 5007-5010	47
1728	Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by {110} Facets: AuPd Rhombic Dodecahedra. <b>2011</b> , 123, 3528-3532	40
1727	Anatase TiO <sub>2</sub> Crystals with Exposed High-Index Facets. <b>2011</b> , 123, 3848-3852	21
1726	Platinum Concave Nanocubes with High-Index Facets and Their Enhanced Activity for Oxygen Reduction Reaction. <b>2011</b> , 123, 2825-2829	99
1725	Cathodic Corrosion: A Quick, Clean, and Versatile Method for the Synthesis of Metallic Nanoparticles. <b>2011</b> , 123, 6470-6474	20
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1721	Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties. <b>2011</b> , 123, 12750-12754	42
1720	Surfactant-free platinum-on-gold nanodendrites with enhanced catalytic performance for oxygen reduction. <b>2011</b> , 50, 745-8	92
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1718	Selective epitaxial growth of silver nanoplates. <b>2011</b> , 50, 992-3	11
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1716	Polyhedral bimetallic alloy nanocrystals exclusively bound by {110} facets: Au-Pd rhombic dodecahedra. <b>2011</b> , 50, 3466-70	96
1715	Anatase TiO <sub>2</sub> crystals with exposed high-index facets. <b>2011</b> , 50, 3764-8	142
1714	Platinum concave nanocubes with high-index facets and their enhanced activity for oxygen reduction reaction. <b>2011</b> , 50, 2773-7	393
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1710	Palladium concave nanocubes with high-index facets and their enhanced catalytic properties. <b>2011</b> , 50, 7850-4	356
1709	Silver nanocrystals with concave surfaces and their optical and surface-enhanced Raman scattering properties. <b>2011</b> , 50, 12542-6	161
1708	Structural effects of Fe <sub>3</sub> O <sub>4</sub> nanocrystals on peroxidase-like activity. <b>2011</b> , 17, 620-5	202
1707	Selective synthesis of Fe <sub>7</sub> Se <sub>8</sub> polyhedra with exposed high-index facets and Fe <sub>7</sub> Se <sub>8</sub> nanorods by a solvothermal process in a binary solution and their collective intrinsic properties. <b>2011</b> , 17, 5068-75	24
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1702	Hierarchical TiO <sub>2</sub> microspheres: synergetic effect of {001} and {101} facets for enhanced photocatalytic activity. <b>2011</b> , 17, 15032-8	170
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1698	Controlled synthesis, magnetic and sensing properties of hematite nanorods and microcapsules. <b>2011</b> , 380, 234-240	26
1697	Formation of platinum nanoflowers on 3-aminopropyltriethoxysilane monolayer: Growth mechanism and electrocatalysis. <b>2011</b> , 401, 226-232	16
1696	An FTIR study of Rh-PtSn/C catalysts for ethanol electrooxidation: Effect of surface composition. <b>2011</b> , 106, 520-528	37
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1694	Evaluating the ozone cleaning treatment in shape-controlled Pt nanoparticles: Evidences of atomic surface disordering. <b>2011</b> , 13, 502-505	69
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1686	Efficient C-C bond cleavage in ethanol electrooxidation on porous Pt catalysts. <b>2011</b> , 660, 57-63	10

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1683	Polymer membranes for high temperature proton exchange membrane fuel cell: Recent advances and challenges. <b>2011</b> , 36, 813-843	669
1682	Self-formation of single-crystal metal particles driven by inhomogeneous stress in thin films. <b>2011</b> , 519, 5188-5193	3
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1679	Polymer end-group mediated synthesis of well-defined catalytically active platinum nanoparticles. <b>2011</b> , 21, 15788	13
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1668	PtPd Bimetallic Catalysts: Structural and Thermal Stabilities of CoreShell and Alloyed Nanoparticles. <b>2012</b> , 116, 8664-8671	96

1667	New Experimental Evidences of PtPd Bimetallic Nanoparticles with CoreShell Configuration and Highly Fine-Ordered Nanostructures by High-Resolution Electron Transmission Microscopy. <b>2012</b> , 116, 12265-12274	35
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1663	Theoretical studies on Grignard reagent formation: radical mechanism versus non-radical mechanism. <b>2012</b> , 10, 9491-500	6
1662	Surfactant-free preparation of supported cubic platinum nanoparticles. <b>2012</b> , 48, 1854-6	43
1661	Gas-induced formation of Cu nanoparticle as catalyst for high-purity straight and helical carbon nanofibers. <b>2012</b> , 6, 8611-9	46
1660	Electrochemically Shape-Controlled Synthesis in Deep Eutectic Solvents: A New Route to Prepare Pt Nanocrystals Enclosed by High-Index Facets with High Catalytic Activity. <b>2012</b> , 116, 2040-2044	108
1659	AFLOW: An automatic framework for high-throughput materials discovery. <b>2012</b> , 58, 218-226	581
1658	Novel issues of morphology, size, and structure of Pt nanoparticles in chemical engineering: surface attachment, aggregation or agglomeration, assembly, and structural changes. <b>2012</b> , 36, 1320	27
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1656	Icosahedral platinum alloy nanocrystals with enhanced electrocatalytic activities. <b>2012</b> , 134, 11880-3	445
1655	Catalytic Pt-on-Au nanostructures: why Pt becomes more active on smaller Au particles. <b>2012</b> , 6, 2226-36	151
1654	Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. <b>2012</b> , 3, 136-147	96
1653	Platinum-coated porous gold nanorods in methanol electrooxidation: dependence of catalytic activity on ligament size. <b>2012</b> , 7, 2937-41	4
1652	Synthesis and characterization of branched yttrium hydroxide fluoride microcrystals with hierarchical tubular structure. <b>2012</b> , 30, 378-382	3
1651	Hanging Pt hollow nanocrystal assemblies on graphene resulting in an enhanced electrocatalyst. <b>2012</b> , 48, 10331-3	43
1650	Biomimetic Oxygen Activation by MoS <sub>2</sub> /Ta <sub>3</sub> N <sub>5</sub> Nanocomposites for Selective Aerobic Oxidation. <b>2012</b> , 124, 11910-11914	16

1649	Biomimetic oxygen activation by MoS <sub>2</sub> /Ta <sub>3</sub> N <sub>5</sub> nanocomposites for selective aerobic oxidation. <b>2012</b> , 51, 11740-4	56
1648	Trisoctahedral Au-Pd alloy nanocrystals with high-index facets and their excellent catalytic performance. <b>2012</b> , 18, 16626-30	37
1647	Temperature and size dependency of thermal conductivity of aluminum nanocluster. <b>2012</b> , 14, 1	13
1646	Controlled synthesis and formation mechanism of sodium yttrium fluoride nanotube arrays. <b>2012</b> , 30, 1260-1264	2
1645	Shape-selective synthesis and facet-dependent electrocatalytic activity of CoPt <sub>3</sub> nanocrystals. <b>2012</b> , 14, 3359	11
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1641	Close-packed mesoporous carbon polyhedrons derived from colloidal carbon microspheres for electrochemical energy storage applications. <b>2012</b> , 2, 10310	10
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1635	Template synthesis of subnanometer gold clusters in interfacially cross-linked reverse micelles mediated by confined counterions. <b>2012</b> , 28, 3606-13	17
1634	Synergism of interparticle electrostatic repulsion modulation and heat-induced fusion: a generalized one-step approach to porous network-like noble metals and their alloy nanostructures. <b>2012</b> , 22, 349-354	24
1633	Structure, ordering, and surfaces of Pt-Fe alloy catalytic nanoparticles from quantitative electron microscopy and X-ray diffraction. <b>2012</b> , 4, 7273-9	12
1632	Structure-induced enhancement in electrooxidation of trimetallic FePtAu nanoparticles. <b>2012</b> , 134, 5060-3	163



1631	FePt concave nanocubes with enhanced methanol oxidation activity. <b>2012</b> , 14, 7572	27
1630	Anion-induced morphological regulation of In(OH) <sub>3</sub> nanostructures and their conversion into porous In <sub>2</sub> O <sub>3</sub> derivatives. <b>2012</b> , 14, 3397	8
1629	Facetted patchy particles through entropy-driven patterning of mixed ligand SAMS. <b>2012</b> , 4, 2640-50	24
1628	Electrochemically shape-controlled synthesis of trapezohedral platinum nanocrystals with high electrocatalytic activity. <b>2012</b> , 48, 9531-3	87
1627	Pt monolayer deposition onto carbon nanotube mattes with high electrochemical activity. <b>2012</b> , 22, 7979	10
1626	Facile synthesis of AgBr nanoplates with exposed {111} facets and enhanced photocatalytic properties. <b>2012</b> , 48, 275-7	120
1625	Flame synthesis of 26-faceted maghemite polyhedrons grown via 14-faceted polyhedrons and their carbon composites for Li-ion battery application. <b>2012</b> , 14, 7009	15
1624	Controlling Pt nanoparticle formation through Se/Pt interactions on the electrode surface. <b>2012</b> , 48, 6776-8	4
1623	Controllable synthesis of crystallographic facet-oriented polyhedral ZnSn(OH) <sub>6</sub> microcrystals with assistance of a simple ion. <b>2012</b> , 14, 8530	15
1622	Highly branched Pt/Ni nanocrystals enclosed by stepped surface for methanol oxidation. <b>2012</b> , 3, 1925	136
1621	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. <b>2012</b> , 22, 12046	14
1620	The crystal-facet-dependent effect of polyhedral Cu <sub>2</sub> O microcrystals on photocatalytic activity. <b>2012</b> , 2, 925	91
1619	Probing nucleation pathways for morphological manipulation of platinum nanocrystals. <b>2012</b> , 134, 9410-6	60
1618	Unique Electrochemical Catalytic Behavior of Pt Nanoparticles Deposited on TiO <sub>2</sub> Nanotubes. <b>2012</b> , 2, 425-432	78
1617	Local electronic structure and density of edge and facet atoms at Rh nanoclusters self-assembled on a graphene template. <b>2012</b> , 6, 3034-43	45
1616	Bottom-up assembly of hierarchical Cu <sub>2</sub> O nanospheres: controllable synthesis, formation mechanism and enhanced photochemical activities. <b>2012</b> , 14, 3545	47
1615	Oxygen reduction activity of Pd-Mn <sub>3</sub> O <sub>4</sub> nanoparticles and performance enhancement by voltammetrically accelerated degradation. <b>2012</b> , 14, 6842-8	28
1614	Control over the branched structures of platinum nanocrystals for electrocatalytic applications. <b>2012</b> , 6, 9797-806	113

1613	Solvothermal synthesis of NiCo alloy icosahedral nanocrystals. <b>2012</b> , 51, 1495-500	51
1612	Selective etching induces selective growth and controlled formation of various platinum nanostructures by modifying seed surface free energy. <b>2012</b> , 6, 4072-82	61
1611	Syntheses of Sub-30 nm [email protected] Concave Nanocubes and Pt-on-([email protected]) Trimetallic Nanostructures as Highly Efficient Catalysts for Ethanol Oxidation. <b>2012</b> , 116, 20839-20847	67
1610	Strong Interaction between Gold and Anatase TiO <sub>2</sub> (001) Predicted by First Principle Studies. <b>2012</b> , 116, 3524-3531	48
1609	Efficient Light Harvesting and Charge Collection of Dye-Sensitized Solar Cells with (001) Faceted Single Crystalline Anatase Nanoparticles. <b>2012</b> , 116, 19164-19172	34
1608	Size effects in atomic-level epitaxial redistribution process of RuO <sub>4</sub> over TiO <sub>2</sub> . <b>2012</b> , 2, 801	56
1607	Density Functional Theory Study of Oxygen Reduction Activity on Ultrathin Platinum Nanotubes. <b>2012</b> , 116, 16499-16510	18
1606	Glycine-mediated syntheses of Pt concave nanocubes with high-index {hk0} facets and their enhanced electrocatalytic activities. <b>2012</b> , 28, 14845-8	100
1605	Atomic origins of the high catalytic activity of nanoporous gold. <b>2012</b> , 11, 775-80	687
1604	Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. <b>2012</b> , 134, 1793-801	238
1603	Defining rules for the shape evolution of gold nanoparticles. <b>2012</b> , 134, 14542-54	522
1602	Tuning crystal-phase and shape of Fe <sub>2</sub> O <sub>3</sub> nanoparticles for catalytic applications. <b>2012</b> , 14, 5107	103
1601	Controlled synthesis of Ag <sub>2</sub> O microcrystals with facet-dependent photocatalytic activities. <b>2012</b> , 22, 21189	129
1600	Exploiting nanoparticles as precursors for novel nanostructure designs and properties. <b>2012</b> , 14, 7535	27
1599	Electrochemistry at nanoporous interfaces: new opportunity for electrocatalysis. <b>2012</b> , 14, 448-63	137
1598	Surface plasmon resonance-mediated photocatalysis by noble metal-based composites under visible light. <b>2012</b> , 22, 21337	412
1597	Surfactantless photochemical growth of Ag nanostructures on GaN epitaxial films with controlled morphologies and their application for SERS. <b>2012</b> , 22, 2410-2418	15
1596	Methanol Decomposition over Palladium Particles Supported on Silica: Role of Particle Size and Co-Feeding Carbon Dioxide on the Catalytic Properties. <b>2012</b> , 2, 1013-1019	31

1595	New life of a forgotten method: Electrochemical route toward highly efficient Pt/C catalysts for low-temperature fuel cells. <b>2012</b> , 431-432, 120-125	44
1594	WO <sub>3</sub> nanocrystals with tunable percentage of (001)-facet exposure. <b>2012</b> , 123-124, 398-404	68
1593	WS <sub>2</sub> nanosheets as a highly efficient electrocatalyst for hydrogen evolution reaction. <b>2012</b> , 125, 59-66	268
1592	A facile and efficient approach to decoration of graphene nanosheets with gold nanoparticles. <b>2012</b> , 258, 5348-5353	39
1591	Atomic force microscopy of the dissolution of cubic Pt nanoparticle on a carbon substrate. <b>2012</b> , 667, 7-10	4
1590	Shape transformation from Pt nanocubes to tetrahexahedra with size near 10nm. <b>2012</b> , 22, 61-64	43
1589	Synthesis of Pd-Rh Core-Frame Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. <b>2012</b> , 124, 10412-10416	31
1588	Synthesis of Pd-Rh core-frame concave nanocubes and their conversion to Rh cubic nanoframes by selective etching of the Pd cores. <b>2012</b> , 51, 10266-70	203
1587	Control of anatase TiO <sub>2</sub> nanocrystals with a series of high-energy crystal facets via a fluorine-free strategy. <b>2012</b> , 7, 2538-42	38
1586	Controlled Synthesis of Nanoscale Icosahedral Gold Particles at Room Temperature. <b>2012</b> , 4, 1662-1667	14
1585	Composite Metal Oxide Nanocatalysts. <b>2012</b> , 4, 1462-1484	57
1584	Highly shape-selective synthesis of monodispersed fivefold twinned platinum nanodecahedrons and nanoicosahedrons. <b>2012</b> , 18, 12222-6	20
1583	Platinum nanoparticles stabilized by cucurbit[6]uril with enhanced catalytic activity and excellent poisoning tolerance for methanol electrooxidation. <b>2012</b> , 18, 12978-85	41
1582	Spiky mesoporous anatase titania beads: a metastable ammonium titanate-mediated synthesis. <b>2012</b> , 18, 13762-9	25
1581	The impacts of nanotechnology on catalysis by precious metal nanoparticles. <b>2012</b> , 1, 31-56	103
1580	Hollow Ag@Pd core-shell nanotubes as highly active catalysts for the electro-oxidation of formic acid. <b>2012</b> , 23, 105609	45
1579	Controlled synthesis of orange-like LnBO <sub>3</sub> :Eu <sup>3+</sup> (Ln = Y, Tb) mesocrystals via a facile organic additive-free hydrothermal route. <b>2012</b> , 14, 2899	16
1578	Shape-controlled synthesis of monodispersed nano-/micro- NaY(MoO <sub>4</sub> ) <sub>2</sub> (doped with Eu <sup>3+</sup> ) without capping agents via a hydrothermal process. <b>2012</b> , 14, 2936	40

1577	Oriented NiO Nanosheets with Regular Hexagonal Nanopores. <b>2012</b> , 116, 14638-14643	19
1576	Modification of Nano-objects by Aryl Diazonium Salts. <b>2012</b> , 103-124	3
1575	The preparation of spiral ZnO nanostructures by top-down wet-chemical etching and their related properties. <b>2012</b> , 22, 10924	23
1574	Novel functionalized nano-TiO <sub>2</sub> loading electrocatalytic membrane for oily wastewater treatment. <b>2012</b> , 46, 6815-21	154
1573	Colloidal Synthesis of Noble Metal Nanoparticles of Complex Morphologies. <b>2012</b> , 7-90	1
1572	Shape-Controlled Synthesis of Metal Nanoparticles of High Surface Energy and Their Applications in Electrocatalysis. <b>2012</b> , 117-165	2
1571	Shape-Controlled Synthesis of Copper Nanoparticles. <b>2012</b> , 167-182	1
1570	Platinum-Based Nanoalloys Pt <sub>n</sub> TM <sub>55</sub> B̄ (TM = Co, Rh, Au): A Density Functional Theory Investigation. <b>2012</b> , 116, 18432-18439	53
1569	Supportless silver nanowires as oxygen reduction reaction catalysts for hydroxide-exchange membrane fuel cells. <b>2012</b> , 5, 1619-24	65
1568	Facile Synthesis of Carbon-Supported Pd@Co Core-Shell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. <b>2012</b> , 24, 2274-2281	154
1567	Prediction of solid-aqueous equilibria: Scheme to combine first-principles calculations of solids with experimental aqueous states. <b>2012</b> , 85,	234
1566	Capping induced morphology evolution of Rh nanostructures and their electrocatalytic studies. <b>2012</b> , 2, 3735	7
1565	Controlling Morphology in Noble Metal Nanoparticles via Templating Approach. <b>2012</b> , 91-116	1
1564	Enhanced electroactivity for the oxygen reduction on Ni@Pt core-shell nanocatalysts. <b>2012</b> , 37, 14902-14910	59
1563	An in situ attenuated total reflection-surface enhanced infrared absorption spectroscopic study of enhanced methanol electro-oxidation activity on carbon-supported Pt nanoparticles by poly(vinylpyrrolidone) of different molecular weights. <b>2012</b> , 82, 543-549	11
1562	Shape-controlled electrodeposition of standing Rh nanoplates on indium tin oxide substrates and their electrocatalytic activity toward formic acid oxidation. <b>2012</b> , 83, 146-154	19
1561	Platinum nanoparticles deposited on substrates by solventless chemical reduction of a platinum precursor with ethylene glycol vapor and its application as highly effective electrocatalyst in dye-sensitized solar cells. <b>2012</b> , 85, 16-24	13
1560	Controlled synthesis of concave tetrahedral palladium nanocrystals by reducing Pd(acac) <sub>2</sub> with carbon monoxide. <b>2012</b> , 47, 3637-3643	13

1559	The road from animal electricity to green energy: combining experiment and theory in electrocatalysis. <b>2012</b> , 5, 9246	187
1558	Multiply twinned Pt-Pd nanicosahedrons as highly active electrocatalysts for methanol oxidation. <b>2012</b> , 48, 543-5	139
1557	Carbon monoxide-controlled synthesis of surface-clean Pt nanocubes with high electrocatalytic activity. <b>2012</b> , 48, 2758-60	73
1556	Crystal facet-dependent photocatalytic oxidation and reduction reactivity of monoclinic WO <sub>3</sub> for solar energy conversion. <b>2012</b> , 22, 6746	303
1555	Controlling the morphologies of WO <sub>3</sub> particles and tuning the gas sensing properties. <b>2012</b> , 36, 2205	64
1554	Alloy tetrahedral PdPt catalysts: enhancing significantly the catalytic activity by synergy effect of high-index facets and electronic structure. <b>2012</b> , 3, 1157	139
1553	Polyvinylpyrrolidone-assisted ultrasonic synthesis of SnO nanosheets and their use as conformal templates for tin dioxide nanostructures. <b>2012</b> , 28, 10597-601	36
1552	Facile and rapid synthesis of spherical porous palladium nanostructures with high catalytic activity for formic acid electro-oxidation. <b>2012</b> , 23, 255606	30
1551	In situ shaping of Pt nanoparticles directly overgrown on carbon supports. <b>2012</b> ,	31
1550	Ferric ion immobilized on three-dimensional nanoporous gold films modified with self-assembled monolayers for electrochemical detection of hydrogen peroxide. <b>2012</b> , 137, 1182-9	32
1549	Nano-boron carbide supported platinum catalysts with much enhanced methanol oxidation activity and CO tolerance. <b>2012</b> , 22, 9155	59
1548	Morphologically-tunable TiO <sub>2</sub> nanorod film with high energy facets: green synthesis, growth mechanism and photocatalytic activity. <b>2012</b> , 4, 5023-30	42
1547	Size-dependent deformation of nanocrystalline Pt nanopillars. <b>2012</b> , 12, 6385-92	137
1546	A green chemical approach for preparation of Pt <sub>x</sub> Cu <sub>y</sub> nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions. <b>2012</b> , 22, 4780	52
1545	Composition-controlled PtCo alloy nanocubes with tuned electrocatalytic activity for oxygen reduction. <b>2012</b> , 4, 6228-34	89
1544	Synthetic Architecture of Multiple CoreShell and YolkShell Structures of (Cu <sub>2</sub> [email protected]) <sub>n</sub> Cu <sub>2</sub> O (n = 1-8) with Centricity and Eccentricity. <b>2012</b> , 24, 1917-1929	78
1543	Platinum Monolayer Electrocatalysts for Anodic Oxidation of Alcohols. <b>2012</b> , 3, 3480-5	108
1542	Morphology and lateral strain control of Pt nanoparticles via core-shell construction using alloy AgPd core toward oxygen reduction reaction. <b>2012</b> , 6, 9373-82	139

1541	Morphology-dependent nanocatalysis on metal oxides. <b>2012</b> , 55, 2485-2496	39
1540	Interaction of citrate with Pt(100) surface investigated by cyclic voltammetry towards understanding the structure-tuning effect in nanomaterials synthesis. <b>2012</b> , 55, 2353-2358	5
1539	Synthesis of spatially uniform metal alloys nanocrystals via a diffusion controlled growth strategy: The case of Au-Pd alloy trisoctahedral nanocrystals with tunable composition. <b>2012</b> , 5, 618-629	31
1538	Preparation of iridium nano- and submicroparticles on solid substrates by direct surface growth and drop-drying assembly. <b>2012</b> , 31, 523-530	4
1537	Facet effect of copper(I) sulfide nanocrystals on photoelectrochemical properties. <b>2012</b> , 22, 585-591	17
1536	Synthesis and Shape Control of Ag <sub>8</sub> SnS <sub>6</sub> Submicropyramids with High Surface Energy. <b>2012</b> , 12, 3458-3464	20
1535	Capping ligands as selectivity switchers in hydrogenation reactions. <b>2012</b> , 12, 5382-8	124
1534	Au@Pd core-shell nanoparticles: A highly active electrocatalyst for amperometric gaseous ethanol sensors. <b>2012</b> , 171-172, 1192-1198	22
1533	Facile synthesis of concave decahedra enclosed by high-index facets and truncated decahedra with a large size. <b>2012</b> , 41, 4948-54	5
1532	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. <b>2012</b> , 22, 5550	72
1531	Nanoplatinum-enclosed gold nanocores as catalytically promoted nanolabels for sensitive electrochemical immunoassay. <b>2012</b> , 751, 52-8	14
1530	Porous Pt-Ni-P composite nanotube arrays: highly electroactive and durable catalysts for methanol electrooxidation. <b>2012</b> , 134, 5730-3	345
1529	Hunting for a maximum highly-energetic facet that interplays with spatial charge storage for enhanced catalytic activity. <b>2012</b> , 14, 11167-77	8
1528	Pt <sub>10</sub> Au nanooctahedra: synthesis and comparative study with nanocubes on their electrochemical catalytic performance. <b>2012</b> , 3, 3302	59
1527	Crystalline assemblies and densest packings of a family of truncated tetrahedra and the role of directional entropic forces. <b>2012</b> , 6, 609-14	155
1526	Single crystal Fe <sub>2</sub> O <sub>3</sub> with exposed {104} facets for high performance gas sensor applications. <b>2012</b> , 2, 6178	70
1525	Unusual Designated-Tailoring on Zone-Axis Preferential Growth of Surfactant-Free ZnO Mesocrystals. <b>2012</b> , 12, 2411-2418	21
1524	Tetrahexahedral Pt Nanocrystal Catalysts Decorated with Ru Adatoms and Their Enhanced Activity in Methanol Electrooxidation. <b>2012</b> , 2, 708-715	63

1523	Enhancing the activity and tuning the mechanism of formic acid oxidation at tetrahedral Pt nanocrystals by Au decoration. <b>2012</b> , 14, 16415-23	32
1522	Ultrafine sputter-deposited Pt nanoparticles for triiodide reduction in dye-sensitized solar cells: impact of nanoparticle size, crystallinity and surface coverage on catalytic activity. <b>2012</b> , 23, 485405	37
1521	Electrocatalytic properties of hollow coral-like platinum mesocrystals. <b>2012</b> , 4, 6942-8	39
1520	Tailored design of architecturally controlled Pt nanoparticles with huge surface areas toward superior unsupported Pt electrocatalysts. <b>2012</b> , 4, 2865-9	56
1519	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. <b>2012</b> , 24, 1591-1598	148
1518	Highly Active Bimetallic PdPt and CoPt Nanocrystals for Methanol Electro-oxidation. <b>2012</b> , 116, 7464-7470	69
1517	Shape-controlled synthesis of polyhedral 50-facet Cu <sub>2</sub> O microcrystals with high-index facets. <b>2012</b> , 14, 4431	62
1516	Single crystalline Pt nanotubes with superior electrocatalytic stability. <b>2012</b> , 22, 16732	19
1515	Facet-selective growth of Cu <sub>2</sub> O heterogeneous architectures. <b>2012</b> , 14, 40-43	46
1514	A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nanohybrids: enhanced electrocatalytic properties. <b>2012</b> , 22, 3319	64
1513	Direct deposition of gold nanoplates and porous platinum on substrates through solvent-free chemical reduction of metal precursors with ethylene glycol vapor. <b>2012</b> , 14, 15793-801	1
1512	Impacts of Surface Functionalization on the Electrocatalytic Activity of Noble Metals and Nanoparticles. <b>2012</b> ,	
1511	Water-soluble polymer-grafted platinum nanoparticles for the subsequent binding of enzymes. synthesis and SANS. <b>2012</b> , 50, 289-296	8
1510	Metallic nanobowls by galvanic replacement reaction on heterodimeric nanoparticles. <b>2012</b> , 8, 654-60	45
1509	In-situ infrared spectroscopic studies of electrochemical energy conversion and storage. <b>2012</b> , 45, 485-94	81
1508	One-step and rapid synthesis of "clean" and monodisperse dendritic Pt nanoparticles and their high performance toward methanol oxidation and p-nitrophenol reduction. <b>2012</b> , 4, 1549-52	115
1507	Platinum nanoflowers supported on graphene oxide nanosheets: their green synthesis, growth mechanism, and advanced electrocatalytic properties for methanol oxidation. <b>2012</b> , 22, 11284	71
1506	Resolving heterogeneity problems and impurity artifacts in operationally homogeneous transition metal catalysts. <b>2012</b> , 112, 1536-54	508

1505	Real-time imaging of Pt <sub>3</sub> Fe nanorod growth in solution. <i>Science</i> , <b>2012</b> , 336, 1011-4	33-3	563
1504	Morphology evolution of TiO <sub>2</sub> facets and vital influences on photocatalytic activity. <b>2012</b> , 4, 1650-5		94
1503	Controlled synthesis of tetrapod/Mitsubishi-like palladium nanocrystals. <b>2012</b> , 14, 1531		13
1502	Hexoctahedral Au nanocrystals with high-index facets and their optical and surface-enhanced Raman scattering properties. <b>2012</b> , 134, 4565-8		134
1501	Recent progress in the synthesis of inorganic nanoparticles. <b>2012</b> , 41, 5089-120		159
1500	Porous platelike hematite mesocrystals: synthesis, catalytic and gas-sensing applications. <b>2012</b> , 22, 11694		106
1499	Electrooxidation of Methanol and Ethylene Glycol Mixture on Platinum and Palladium in Alkaline Medium. <b>2012</b> , 12, 677-682		26
1498	A General Protocol for the Synthesis of Pt <sub>n</sub> /C Catalysts for the Ethanol Electrooxidation Reaction. <b>2012</b> , 12, 670-676		9
1497	BiOCl Sub-Microcrystals Induced by Citric Acid and Their High Photocatalytic Activities. <b>2012</b> , 12, 793-803		203
1496	The effect of anatase crystal morphology on the photocatalytic conversion of NO by TiO <sub>2</sub> -based nanomaterials. <b>2012</b> , 10, 1183-1198		6
1495	Cyclic electrodeposition of PtCu alloy: facile fabrication of highly porous platinum electrodes. <b>2012</b> , 24, 2916-21		61
1494	Nanokristalle mit wohldefinierten Kristallflächen für die Katalyse. <b>2012</b> , 124, 622-635		64
1493	Origin of Low CO <sub>2</sub> Selectivity on Platinum in the Direct Ethanol Fuel Cell. <b>2012</b> , 124, 1604-1607		7
1492	Porous Single-Crystalline Palladium Nanoparticles with High Catalytic Activities. <b>2012</b> , 124, 4956-4960		29
1491	Electrochemical Milling and Faceting: Size Reduction and Catalytic Activation of Palladium Nanoparticles. <b>2012</b> , 124, 8628-8632		8
1490	Porous single-crystalline palladium nanoparticles with high catalytic activities. <b>2012</b> , 51, 4872-6		193
1489	Electrochemical milling and faceting: size reduction and catalytic activation of palladium nanoparticles. <b>2012</b> , 51, 8500-4		59
1488	Antibacterial activities of tellurium nanomaterials. <b>2012</b> , 7, 930-4		47



1487	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. <b>2012</b> , 4, 1668-1674	25
1486	Synthesis of a hierarchical three-component nanocomposite structure system with enhanced electrocatalytic and photoelectrical properties. <b>2012</b> , 18, 5248-55	6
1485	Polyhedral AgBr microcrystals with an increased percentage of exposed {111} facets as a highly efficient visible-light photocatalyst. <b>2012</b> , 18, 4620-6	61
1484	Simplifying the creation of dumbbell-like Cu-Ag nanostructures and their enhanced catalytic activity. <b>2012</b> , 18, 9505-10	49
1483	A general and high-yield galvanic displacement approach to Au-M (M = Au, Pd, and Pt) core-shell nanostructures with porous shells and enhanced electrocatalytic performances. <b>2012</b> , 18, 9423-9	51
1482	Metal ions induce growth and magnetism alternation of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> crystals bound by high-index facets. <b>2012</b> , 18, 8957-63	51
1481	Synthesis of PtPd bimetal nanocrystals with controllable shape, composition, and their tunable catalytic properties. <b>2012</b> , 12, 4265-70	207
1480	Preparation of PtAu Alloy Colloids by Laser Ablation in Solution and Their Characterization. <b>2012</b> , 116, 13413-13420	82
1479	Sub-nanometre sized metal clusters: from synthetic challenges to the unique property discoveries. <b>2012</b> , 41, 3594-623	879
1478	Shape-Controlled Nanocrystals for Catalytic Applications. <b>2012</b> , 16, 14-27	37
1477	Microstructure-dependent photoelectrochemical and photocatalytic properties of BiOI. <b>2012</b> , 14, 1	27
1476	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkk} high-index surfaces. <b>2012</b> , 5, 181-189	87
1475	In situ deposition of flower-like ZnO on silk fibroin fibers. <b>2012</b> , 108, 235-238	12
1474	Shape-dependent catalytic activity of palladium nanoparticles embedded in SiO <sub>2</sub> and TiO <sub>2</sub> . <b>2012</b> , 180, 59-67	22
1473	Microstructure effect of carbon nanofibers on Pt/CNFs electrocatalyst for oxygen reduction. <b>2012</b> , 37, 4639-4647	22
1472	The inhibition of electrochemical carbon corrosion in polymer electrolyte membrane fuel cells using iridium nanodendrites. <b>2012</b> , 37, 2455-2461	32
1471	Gas-phase photocatalytic activity of nanostructured titanium dioxide from flame aerosol synthesis. <b>2012</b> , 111-112, 1-9	13
1470	Preparation and characterization of nanostructured Pd with high electrocatalytic activity. <b>2012</b> , 395, 75-81	16

1469	Methanol electrooxidation on carbon supported Au@Pt shell nanoparticles synthesized by an epitaxial growth method. <b>2012</b> , 37, 9636-9644	18
1468	Preparation of Au-film electrodes in glucose-containing Au-electroplating aqueous bath for high-performance nonenzymatic glucose sensor and glucose/O <sub>2</sub> fuel cell. <b>2012</b> , 18, 108-111	28
1467	Hollow Fe <sub>2</sub> O <sub>3</sub> polyhedrons: One-pot synthesis and their use as electrochemical material for nitrite sensing. <b>2012</b> , 59, 81-85	43
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1465	Palladium nanostructures from multi-component metallic glass. <b>2012</b> , 74, 145-150	41
1464	Electrochemically shape-controlled synthesis in deep eutectic solvents of Pt nanoflowers with enhanced activity for ethanol oxidation. <b>2012</b> , 76, 468-474	90
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1462	Watching nanoparticle kinetics in liquid. <b>2012</b> , 15, 140-147	33
1461	Hydrothermal synthesis of urchin-like ZnO and ZnO/ZnS heterogeneous architectures. <b>2012</b> , 7, 29	1
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1459	Effects of catalyst load in Pt and Pb-based catalysts using formic acid oxidation as a model. <b>2012</b> , 199, 75-84	11
1458	The importance of water in the polyol synthesis of carbon supported platinum/nickel oxide catalysts for ethanol electrooxidation. <b>2012</b> , 206, 97-102	12
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1456	Green synthesis of predominant (111) facet CuO nanoparticles: Heterogeneous and recyclable catalyst for N-arylation of indoles. <b>2012</b> , 359, 28-34	40
1455	Ultrasensitive platinum nanocubes enhanced amperometric glucose biosensor based on chitosan and nafion film. <b>2012</b> , 163, 115-120	57
1454	Pt-Cu and Pt-Pd-Cu concave nanocubes with high-index facets and superior electrocatalytic activity. <b>2012</b> , 18, 777-82	167
1453	Controlled synthesis and enhanced catalytic and gas-sensing properties of tin dioxide nanoparticles with exposed high-energy facets. <b>2012</b> , 18, 2283-9	91
1452	Nanocatalysis and prospects of green chemistry. <b>2012</b> , 5, 65-75	165

1451	Small adsorbate-assisted shape control of Pd and Pt nanocrystals. <b>2012</b> , 24, 862-79	369
1450	Facet-Mediated Photodegradation of Organic Dye over Hematite Architectures by Visible Light. <b>2012</b> , 124, 182-186	58
1449	Convex Polyhedral Au@Pd CoreShell Nanocrystals with High-Index Facets. <b>2012</b> , 124, 163-167	22
1448	Catalysis based on nanocrystals with well-defined facets. <b>2012</b> , 51, 602-13	641
1447	Origin of low CO <sub>2</sub> selectivity on platinum in the direct ethanol fuel cell. <b>2012</b> , 51, 1572-5	105
1446	Facet-mediated photodegradation of organic dye over hematite architectures by visible light. <b>2012</b> , 51, 178-82	231
1445	Convex polyhedral Au@Pd core-shell nanocrystals with high-index facets. <b>2012</b> , 51, 159-63	123
1444	High-index faceted noble metal nanocrystals. <b>2013</b> , 46, 191-202	440
1443	Catalyst of Pt nanoparticles loaded on multi-walled carbon nanotubes with high activity prepared by electrodeposition without supporting electrolyte. <b>2013</b> , 112, 919-926	10
1442	Preparation of superparamagnetic Mn(x)Fe(1-x)O nanoparticles from low-index-facet cubes to high-index-facet concave structures and their catalytic performance in aqueous solution. <b>2013</b> , 5, 7558-63	19
1441	Shape- and size-controlled nanomaterials for artificial photosynthesis. <b>2013</b> , 6, 1834-47	47
1440	Bovine Serum Albumin as an Effective Surface Regulating Biopolymer for Morphology Control of Gold Polyhedrons. <b>2013</b> , 13, 4131-4137	11
1439	Tuning the electronic structure of titanium oxide support to enhance the electrochemical activity of platinum nanoparticles. <b>2013</b> , 13, 4469-74	63
1438	Catalysis by gold: New insights into the support effect. <b>2013</b> , 8, 403-416	177
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1436	Au@Pd coreshell nanocubes with finely-controlled sizes. <b>2013</b> , 15, 3385	28
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1434	Interfacial Charge Transfer and Enhanced Photocatalytic Mechanisms for the Hybrid Graphene/Anatase TiO <sub>2</sub> (001) Nanocomposites. <b>2013</b> , 117, 16022-16027	61

1433	Can boron and nitrogen co-doping improve oxygen reduction reaction activity of carbon nanotubes?. <b>2013</b> , 135, 1201-4	737
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1431	Octapod iron oxide nanoparticles as high-performance T1 contrast agents for magnetic resonance imaging. <b>2013</b> , 4, 2266	331
1430	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nano hybrid as a synergistic catalyst for the oxygen reduction reaction. <b>2013</b> , 1, 11961	65
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1428	Surface structure dependent electrocatalytic activity of CoOx anchored on graphene sheets toward oxygen reduction reaction. <b>2013</b> , 3, 2300	235
1427	Aqueous synthesis of silver nanoparticles stabilized by cationic cellulose and their catalytic and antibacterial activities. <b>2013</b> , 3, 19319	22
1426	Influence of perfluorinated end groups on the SFRD of [Pt(cod)Me(C(n)F(2n+1))] onto porous Al(2)O(3) in CO(2) under reductive conditions. <b>2013</b> , 19, 12794-9	24
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1424	Magic number Pt13 and misshapen Pt12 clusters: which one is the better catalyst?. <b>2013</b> , 135, 13089-95	145
1423	Hierarchical CuO nanoflowers: water-required synthesis and their application in a nonenzymatic glucose biosensor. <b>2013</b> , 15, 10904-13	115
1422	Time Evolution of the Stability and Oxygen Reduction Reaction Activity of PtCu/C Nanoparticles. <b>2013</b> , 5, 2627-2635	25
1421	Structural and electrocatalytic properties of Pt/C and Pt-Ni/C catalysts prepared by electrochemical dispersion. <b>2013</b> , 54, 255-262	18
1420	Bimetallic FeNi concave nanocubes and nanocages. <b>2013</b> , 135, 10958-61	35
1419	A review of hollow Pt-based nanocatalysts applied in proton exchange membrane fuel cells. <b>2013</b> , 232, 310-322	135
1418	The development of mixture, alloy, and core-shell nanocatalysts with nanomaterial supports for energy conversion in low-temperature fuel cells. <b>2013</b> , 2, 636-676	227
1417	Electrocatalysis at Restructured Metal and Alloy Surfaces. <b>2013</b> , 265-294	1
1416	Preparation of AgCu bimetallic dendritic nanostructures and their hydrogen peroxide electroreduction property. <b>2013</b> , 43, 667-677	20

1415	Quantification of electron transfer rates of different facets on single gold nanoparticles during catalytic reactions. <b>2013</b> , 49, 5204-6	34
1414	Hydrothermal process synthesized electrocatalytic multi-walled carbon nanotubes-inserted gold composite microparticles toward ethanol oxidation reaction. <b>2013</b> , 43, 567-574	10
1413	Multi-Metallic Nanoparticles as More Efficient Catalysts for Fuel Cell Reactions. <b>2013</b> , 333-346	
1412	Electrocatalysts for the Electrooxidation of Ethanol. <b>2013</b> , 33-67	3
1411	One-dimensional metal oxide nanostructures for heterogeneous catalysis. <b>2013</b> , 5, 7175-83	32
1410	Hollow-shelled nanoreactors endowed with high catalytic activity. <b>2013</b> , 19, 12196-211	108
1409	Co <sub>3</sub> O <sub>4</sub> nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <b>2013</b> , 1, 14427	128
1408	Synthesis and characterization of nearly monodisperse deltoidal icositetrahedral In <sub>2</sub> O <sub>3</sub> nanocrystals via one-pot pyrolysis reaction. <b>2013</b> , 15, 8065	12
1407	Well-dispersed Pt cubes on porous Cu foam: high-performance catalysts for the electrochemical oxidation of glucose in neutral media. <b>2013</b> , 19, 9534-41	20
1406	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. <b>2013</b> , 7, 9223-31	71
1405	Morphology dependent photosensitization and formation of singlet oxygen (1O <sub>2</sub> ) by gold and silver nanoparticles and its application in cancer treatment. <b>2013</b> , 1, 4379-4387	73
1404	Au@Pd core-shell nanobricks with concave structures and their catalysis of ethanol oxidation. <b>2013</b> , 6, 1945-51	29
1403	Systematic synthesis of ZnO nanostructures. <b>2013</b> , 19, 3735-40	19
1402	Interplay of Electronic Structure and Atomic Mobility in Nanoalloys of Au and Pt. <b>2013</b> , 117, 17268-17273	29
1401	Kinetics and Active Surfaces for CO Oxidation on Pt-Group Metals Under Oxygen Rich Conditions. <b>2013</b> , 56, 1299-1313	19
1400	Screening of Soluble Rhodium Nanoparticles as Precursor for Highly Active Hydrogenation Catalysts: The Effect of the Stabilizing Agents. <b>2013</b> , 56, 1228-1238	25
1399	Titania-supported silver-based bimetallic nanoparticles as photocatalysts. <b>2013</b> , 20, 3751-9	27
1398	Controllable synthesis of NaYF <sub>4</sub> :Yb,Er nanorods by potassium oleate as ligand. <b>2013</b> , 291, 2533-2540	6

1397	Pt-Ni alloyed nanocrystals with controlled architectures for enhanced methanol oxidation. <b>2013</b> , 49, 8704-6	61
1396	Cathodic corrosion. II. Properties of nanoparticles synthesized by cathodic corrosion. <b>2013</b> , 39, 312-317	9
1395	Shape-controlled nanostructures in heterogeneous catalysis. <b>2013</b> , 6, 1797-820	117
1394	From novel PtSn/Pt(110) surface alloys to SnO <sub>x</sub> /Pt(110) nano-oxides. <b>2013</b> , 615, 103-109	5
1393	Surface stabilization of hexagonal WO <sub>3</sub> by non-metallic atoms: A DFT study. <b>2013</b> , 68, 218-221	17
1392	High sensitivity hydrogen peroxide and hydrazine sensor based on silver nanocubes with rich {100} facets as an enhanced electrochemical sensing platform. <b>2013</b> , 43, 180-5	115
1391	Multifunctional nanoparticle@MOF core-shell nanostructures. <b>2013</b> , 25, 5819-25	253
1390	Electrochemical degradation of methyl orange on PtBi/C nanostructured electrode by a square-wave potential method. <b>2013</b> , 92, 93-101	36
1389	Controllable proton and CO <sub>2</sub> photoreduction over Cu <sub>2</sub> O with various morphologies. <b>2013</b> , 38, 13017-13022	105
1388	Using ionic liquid as the solvent to prepare PdNi bimetallic nanoparticles by a pyrolysis method for ethanol oxidation reaction. <b>2013</b> , 142, 403-411	31
1387	Transformation of Pd nanocubes into octahedra with controlled sizes by maneuvering the rates of etching and regrowth. <b>2013</b> , 135, 11752-5	99
1386	Facet-selective adsorption on noble metal crystals guided by electrostatic potential surfaces of aromatic molecules. <b>2013</b> , 135, 15489-500	35
1385	Comparison of Reaction Energetics for Oxygen Reduction Reactions on Pt(100), Pt(111), Pt/Ni(100), and Pt/Ni(111) Surfaces: A First-Principles Study. <b>2013</b> , 117, 6284-6292	146
1384	Electrochemical controlled synthesis and characterization of well-aligned IrO <sub>2</sub> nanotube arrays with enhanced electrocatalytic activity toward oxygen evolution reaction. <b>2013</b> , 688, 269-274	45
1383	Freestanding monolayered nanoporous gold films with high electrocatalytic activity via interfacial self-assembly and overgrowth. <b>2013</b> , 1, 4678	36
1382	High activity of novel nanoporous PdAu catalyst for methanol electro-oxidation in alkaline media. <b>2013</b> , 565, 120-126	55
1381	Equilibrium Crystal Shape of Ni from First Principles. <b>2013</b> , 117, 21274-21280	40
1380	Highly concave platinum nanoframes with high-index facets and enhanced electrocatalytic properties. <b>2013</b> , 52, 12337-40	182

1379	Nanocatalysis production of photoactive radicals. <b>2013</b> , 38, 63-66	7
1378	Controlled synthesis of non-epitaxially grown Pd@Ag core-shell nanocrystals of interesting optical performance. <b>2013</b> , 49, 4379-81	33
1377	Observation of growth of metal nanoparticles. <b>2013</b> , 49, 11720-7	113
1376	Electrocatalytic activity of surface oxides on platinum nanofacets and surfaces. <b>2013</b> , 109, 440-446	3
1375	Confining the nucleation and overgrowth of Rh to the {111} facets of Pd nanocrystal seeds: the roles of capping agent and surface diffusion. <b>2013</b> , 135, 16658-67	60
1374	Facile synthesis of Pd-Ir bimetallic octapods and nanocages through galvanic replacement and co-reduction, and their use for hydrazine decomposition. <b>2013</b> , 15, 11822-9	40
1373	Making sense of the mayhem behind shape control in the synthesis of gold nanoparticles. <b>2013</b> , 135, 18238-47	237
1372	The self-assembling of DNA-templated Au nanoparticles into nanowires and their enhanced SERS and catalytic applications. <b>2013</b> , 3, 16486	61
1371	Plasmonische Synthese von metallischen Nanostrukturen. <b>2013</b> , 125, 14158-14189	15
1370	Plasmon-mediated syntheses of metallic nanostructures. <b>2013</b> , 52, 13910-40	156
1369	In Situ Synchrotron X-Ray Techniques for Real-Time Probing of Colloidal Nanoparticle Synthesis. <b>2013</b> , 30, 399-419	58
1368	PtPd porous nanorods with enhanced electrocatalytic activity and durability for oxygen reduction reaction. <b>2013</b> , 2, 836-844	121
1367	Highly stable and active PtNiFe dandelion-like alloys for methanol electrooxidation. <b>2013</b> , 1, 13252	27
1366	Alternating voltage-induced electrochemical synthesis of colloidal Au nanoicosahedra. <b>2013</b> , 15, 1	5
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1364	Highly dispersed platinum nanoparticles generated in viologen micelles with high catalytic activity and stability. <b>2013</b> , 1, 12206	21
1363	Potentiostatic deposition of differently shaped Pt and PtBi nanoparticles. <b>2013</b> , 32, 375-379	3
1362	A facile approach for in situ synthesis of graphene-branched-Pt hybrid nanostructures with excellent electrochemical performance. <b>2013</b> , 5, 11265-74	46

1361	Silver nanoplates: Tetradecyltrimethylammonium ions as additives in seed-growth synthesis and their potential application as catalysts for glucose oxidation reaction. <b>2013</b> , 106, 411-417	10
1360	Supported monodisperse Pt nanoparticles from [Pt <sub>3</sub> (CO) <sub>3</sub> ( $\eta$ -CO) <sub>3</sub> ] <sup>5(2-)</sup> clusters for investigating support-Pt interface effect in catalysis. <b>2013</b> , 42, 12699-705	24
1359	Silver nanoparticles-decorated polyphosphazene nanotubes: synthesis and applications. <b>2013</b> , 5, 7913-9	66
1358	Decoration of active sites to create bimetallic surfaces and its implication for electrochemical processes. <b>2013</b> , 164, 199-218	5
1357	Room-temperature synthesis of flower-like BiOX (X=Cl, Br, I) hierarchical structures and their visible-light photocatalytic activity. <b>2013</b> , 52, 11118-25	145
1356	Pt-group bimetallic nanocrystals with high-index facets as high performance electrocatalysts. <b>2013</b> , 162, 77-89	46
1355	Adhesion of Pt Nanoparticles Supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Single Crystal. <b>2013</b> , 117, 21407-21412	14
1354	Solid state pathways to complex shape evolution and tunable porosity during metallic crystal growth. <b>2013</b> , 3, 2642	20
1353	Microscopic insight into the bilateral formation of carbon spirals from a symmetric iron core. <b>2013</b> , 3, 1840	7
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1350	Single-crystalline $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanostructures: controlled synthesis and high-index plane-enhanced photodegradation by visible light. <b>2013</b> , 1, 6888	82
1349	Oxidation of PtNi nanoparticles studied by a scanning X-ray fluorescence microscope with multi-layer Laue lenses. <b>2013</b> , 5, 7184-7	24
1348	Autocatalytic-assembly based on self-decomposing templates: a facile approach toward hollow metal nanostructures. <b>2013</b> , 3, 4666	9
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1346	A new (3 $\times$ 3)R40° surface reconstruction of the Pt(1 1 1) surface. <b>2013</b> , 93, 465-472	1
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1344	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. <b>2013</b> , 1, 14449	57



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1342	Roughening of Pt nanoparticles induced by surface-oxide formation. <b>2013</b> , 15, 2268-72	18
1341	Synthesis and electrocatalytic properties of tetrahedral, polyhedral, and branched Pd@Au core-shell nanocrystals. <b>2013</b> , 49, 8836-8	21
1340	Electrochemically shape-controlled synthesis in deep eutectic solvents: triambic icosahedral platinum nanocrystals with high-index facets and their enhanced catalytic activity. <b>2013</b> , 49, 11152-4	87
1339	Synthesis of square-like anatase TiO <sub>2</sub> nanocrystals based on TiO <sub>2</sub> quantum dots. <b>2013</b> , 550, 475-478	8
1338	Shape-controlled synthesis of Pt nanocrystals: the role of metal carbonyls. <b>2013</b> , 7, 645-53	149
1337	Fe <sub>2</sub> O <sub>3</sub> nanochains: ammonium acetate-based ionothermal synthesis and ultrasensitive sensors for low-ppm-level H <sub>2</sub> S gas. <b>2013</b> , 5, 895-8	99
1336	Solution and surfactant-free growth of supported high index facet SERS active nanoparticles of rhenium by phase demixing. <b>2013</b> , 1, 1566-1572	17
1335	Metal nanoparticle catalysts beginning to shape-up. <b>2013</b> , 46, 1682-91	175
1334	Recent progress in nanostructured electrocatalysts for PEM fuel cells. <b>2013</b> , 1, 4631	157
1333	On the synergistic effect of hydrohalic acids in the shape-controlled synthesis of anatase TiO <sub>2</sub> single crystals. <b>2013</b> , 15, 3252-3255	41
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1331	High stability, high activity Pt/ITO oxygen reduction electrocatalysts. <b>2013</b> , 135, 530-3	146
1330	High yield synthesis of catalytically active five-fold twinned Pt nanorods from a surfactant-ligated precursor. <b>2013</b> , 49, 573-5	32
1329	Synthesis of colloidal metal and metal alloy nanoparticles for electrochemical energy applications. <b>2013</b> , 42, 2880-904	445
1328	Template synthesis of braided gold nanowires with gemini surfactant[AuCl <sub>4</sub> aggregates. <b>2013</b> , 15, 1	11
1327	Ti <sub>0.89</sub> Si <sub>0.11</sub> O <sub>2</sub> single crystals bound by high-index {201} facets showing enhanced visible-light photocatalytic hydrogen evolution. <b>2013</b> , 49, 2016-8	24
1326	{001} facets dominated anatase TiO <sub>2</sub> : Morphology, formation/etching mechanisms and performance. <b>2013</b> , 56, 402-417	18

1325	Core-shell noble-metal@metal-organic-framework nanoparticles with highly selective sensing property. <b>2013</b> , 52, 3741-5	475
1324	Rational Design of Hybrid Nanostructures for Advanced Photocatalysis. <b>2013</b> , 3, 12-27	126
1323	Structure-dependent electrocatalysis of Ni(OH) <sub>2</sub> hourglass-like nanostructures towards L-histidine. <b>2013</b> , 19, 501-8	19
1322	Hydrothermal synthesis and formation mechanism of hexagonal yttrium hydroxide fluoride nanobundles. <b>2013</b> , 48, 4481-4485	5
1321	A novel Pt nanosponge foil with high activity for oxygen reduction reaction. <b>2013</b> , 102, 1-7	13
1320	Controlled synthesis of nanostructured Co film catalysts with high performance for hydrogen generation from sodium borohydride solution. <b>2013</b> , 239, 277-283	53
1319	All-Metal Mesoporous Nanocolloids: Solution-Phase Synthesis of CoreShell Pd@Pt Nanoparticles with a Designed Concave Surface. <b>2013</b> , 125, 13856-13860	32
1318	Synthesis and properties of octahedral Co <sub>3</sub> O <sub>4</sub> single-crystalline nanoparticles enclosed by (111) facets. <b>2013</b> , 15, 8337	26
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1313	Self-protective cobalt nanocatalyst for long-time recycle application on hydrogen generation by its free metal-ion conversion. <b>2013</b> , 243, 431-435	15
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1311	Surface-induced structural transformation in nanowires. <b>2013</b> , 74, 173-209	22
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1309	Metal Nanocrystal-Embedded Hollow Mesoporous TiO <sub>2</sub> and ZrO <sub>2</sub> Microspheres Prepared with Polystyrene Nanospheres as Carriers and Templates. <b>2013</b> , 23, 2137-2144	99
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1304	Does Morphology of a Metal Nanoparticle Play a Role in Ostwald Ripening Processes?. <b>2013</b> , 25, 365-371	32
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1299	Seed-mediated growth of noble metal nanocrystals: crystal growth and shape control. <b>2013</b> , 5, 3172-81	147
1298	Morphology control of nickel oxalate by soft chemistry and conversion to nickel oxide for application in photocatalysis. <b>2013</b> , 3, 6106	33
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1274	Supersaturation-dependent surface structure evolution: from ionic, molecular to metallic micro/nanocrystals. <b>2013</b> , 135, 9311-4	117
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1269	PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanol-Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells. <b>2013</b> , 23, 1289-1296	264
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1228	Thermal Stability and Shape Evolution of Tetrahedral Au@Pd Core@Shell Nanoparticles with High-Index Facets. <b>2013</b> , 117, 6896-6903	25
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