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Designer platinum nanoparticles: Control of shape, composition in alloy, nanostructure and electrocatalytic property

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#	Paper	IF	Citations
969	Twin-Induced Growth of PalladiumBlatinum Alloy Nanocrystals. 2009 , 121, 6422-6426		13
968	Twin-induced growth of palladium-platinum alloy nanocrystals. 2009, 48, 6304-8		113
967	Self-templated synthesis of hollow nanostructures. <i>Nano Today</i> , 2009 , 4, 494-507	17.9	411
966	Rhodium Nanoparticle Shape Dependence in the Reduction of NO by CO. 2009, 132, 317-322		37
965	PtAu bimetallic heteronanostructures made by post-synthesis modification of Pt-on-Au nanoparticles. <i>Nano Research</i> , 2009 , 2, 406-415	10	120
964	Ultrathin platinum film covered high-surface-area nanoporous gold for methanol electro-oxidation. 2009 , 11, 1717-1720		32
963	Noble metal nanoparticles for water purification: A critical review. 2009 , 517, 6441-6478		583
962	A general strategy for preparation of Pt 3d-transition metal (Co, Fe, Ni) nanocubes. 2009 , 131, 18543-7		300
961	Synthesis and Application of Pt Nanocrystals with Controlled Crystallographic Planes. 2009 , 113, 18115	-1812(0 44
960	Synthesis and oxygen reduction electrocatalytic property of Pt-on-Pd bimetallic heteronanostructures. 2009 , 131, 7542-3		565
959	Construction of evolutionary tree for morphological engineering of nanoparticles. 2009 , 3, 2191-8		94
958	Surface-specific overgrowth of platinum on shaped gold nanocrystals. 2009 , 11, 9759-65		31
957	Supportless oxygen reduction electrocatalysts of CoCuPt hollow nanoparticles. 2010 , 368, 4261-74		10
956	In situ controllable synthesis of magnetite nanocrystals/CoSe2 hybrid nanobelts and their enhanced catalytic performance. 2010 , 20, 9355		63
955	Modelling of nanoparticles: approaches to morphology and evolution. 2010 , 73, 086502		147
954	Platinum-based nanostructured materials: synthesis, properties, and applications. 2010 , 110, 3767-804		1133
953	New insights into the growth mechanism and surface structure of palladium nanocrystals. <i>Nano Research</i> , 2010 , 3, 180-188	10	88

(2010-2010)

952	alloys. 2010 , 4, 45-51	10
951	Directed and random self-assembly of PtAu nanoparticles. 2010 , 124, 1193-1197	11
950	Study of carbon monoxide oxidation on mesoporous platinum. 2010 , 11, 2896-905	10
949	Monodisperse Pt3Fe Nanocubes: Synthesis, Characterization, Self-Assembly, and Electrocatalytic Activity. 2010 , 20, 3727-3733	83
948	An Electrochemical Approach to PtAg Alloy Nanostructures Rich in Pt at the Surface. 2010 , 20, 3734-3741	99
947	Synthesis of AuPt Heteronanostructures with Enhanced Electrocatalytic Activity toward Oxygen Reduction. 2010 , 122, 10395-10399	31
946	Synthesis of AuPt heteronanostructures with enhanced electrocatalytic activity toward oxygen reduction. 2010 , 49, 10197-201	121
945	Decomposition of hydrogen iodide over PtII/C bimetallic catalyst. 2010 , 35, 8862-8867	27
944	Carbon supported Pt-shell modified PdCo-core with electrocatalyst for methanol oxidation. 2010 , 35, 10081-10086	50
943	Effect of aging on the electrocatalytic activity of gold nanoparticles. 2010 , 12, 1245-1248	19
942	Surfactant-free and controllable synthesis of hierarchical platinum nanostructures and their comparative studies in electrocatalysis, surface-enhanced Raman scattering and surface wettability. 2010 , 55, 8649-8654	17
941	Silver triangular nanoplates as electrocatalyst for oxygen reduction reaction. 2010 , 12, 1609-1613	57
940	Facile synthesis of bimetallic Ag/Ni core/sheath nanowires and their magnetic and electrical properties. 2010 , 6, 1927-34	25
939	Nanochemistry [From Supramolecular Chemistry to Chemistry on the Nanoscale, Catalysis, Renewable Energy, Batteries, and Environmental Protection. 2010 , 477-526	
938	Platinum attachments on iron oxide nanoparticle surfaces. 2010 , 107, 09B311	19
937	Oxygen Reduction Kinetics on Pt[sub x]Ni[sub 100☑] Thin Films Prepared by Pulsed Laser Deposition. 2010 , 157, B1051	14
936	Acceleration of Electrocatalytic Activity on PtBn Nanoparticles. 2010 , 157, B1245	10
935	Controlling the shapes of silver nanocrystals with different capping agents. 2010 , 132, 8552-3	364

934	Truncated octahedral Pt(3)Ni oxygen reduction reaction electrocatalysts. 2010, 132, 4984-5	459
933	Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. <i>Chemistry of Materials</i> , 2010 , 22, 6310-6318	348
932	Electroreduction of dioxygen for fuel-cell applications: materials and challenges. 2010 , 49, 3557-66	588
931	Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. <i>Chemistry of Materials</i> , 2010 , 22, 2835-2841	130
930	Probing Site Activity of Monodisperse Pt Nanoparticle Catalysts Using Steam Reforming of Methane. 2010 , 1, 254-259	17
929	Nanoscale Alloying, Phase-Segregation, and CoreBhell Evolution of GoldPlatinum Nanoparticles and Their Electrocatalytic Effect on Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2010 , 22, 4282-4294	184
928	A Novel Side-Selective Galvanic Reaction and Synthesis of Hollow Nanoparticles with an Alloy Core. 2010 , 114, 18073-18080	30
927	Nanostructured Pt-alloy electrocatalysts for PEM fuel cell oxygen reduction reaction. 2010 , 39, 2184-202	926
926	Synthesis and Oxygen Reduction Electrocatalytic Property of Platinum Hollow and Platinum-on-Silver Nanoparticles Chemistry of Materials, 2010 , 22, 1098-1106	138
925	Co-Assembly of Nanoparticles in Evaporating Aerosol Droplets: Preparation of Nanoporous Pt/TiO2 Composite Particles. 2010 , 44, 1140-1145	14
924	Rational synthesis of heterostructured nanoparticles with morphology control. 2010 , 132, 6524-9	134
923	On the Role of Ascorbic Acid in the Synthesis of Single-Crystal Hyperbranched Platinum Nanostructures. 2010 , 10, 3454-3460	82
922	Composition-dependent formation of platinum silver nanowires. 2010 , 4, 1501-10	126
921	Electrochemical synthesis and catalytic property of sub-10 nm platinum cubic nanoboxes. 2010 , 10, 1492-6	123
920	Top-down shaping of metal nanoparticles in solution: partially etched Au@Pt nanoparticles with unique morphology. 2011 , 47, 8079-81	16
919	CO-assisted synthesis of finely size-controlled platinum nanoparticles. 2011 , 47, 3864-6	12
918	Mn3O4 catalyzed growth of polycrystalline Pt nanoparticles and single crystalline Pt nanorods with high index facets. 2011 , 47, 1009-11	23
917	Synthesis of multiple platinum-attached iron oxide nanoparticles. 2011 , 21, 3966	19

(2011-2011)

916	Monomorphic platinum octapod and tripod nanocrystals synthesized by an iron nitrate modified polyol process. 2011 , 47, 11966-8		12
915	Morphology mapping of platinum catalysts over the entire nanoscale. 2011 , 1, 1440		24
914	In situ studies of different growth modes of silver crystals induced by the concentration field in an aqueous solution. 2011 , 13, 4491		25
913	The effect of Bi adsorption on CO oxidation inside 1.8 nm Pt pores. 2011 , 13, 17964-8		1
912	General preparation for Pt-based alloy nanoporous nanoparticles as potential nanocatalysts. 2011 , 1, 37		106
911	Promotional Effects of Bismuth on the Formation of PlatinumBismuth Nanowires Network and the Electrocatalytic Activity toward Ethanol Oxidation. 2011 , 11, 594-599		31
910	Nanoparticle-aggregated paddy-like copper dendritic nanostructures. 2011 , 13, 1916-1921		19
909	Direct synthesis of spatially-controlled Pt-on-Pd bimetallic nanodendrites with superior electrocatalytic activity. 2011 , 133, 9674-7		478
908	Ab initio insights on the shapes of platinum nanocatalysts. 2011 , 5, 247-54		28
907	Catalytic Activity of Carbon-Supported Pt Nanoelectrocatalysts. Why Reducing the Size of Pt Nanoparticles is Not Always Beneficial. 2011 , 115, 5429-5434		66
906	Synthesis of CoreBhell PtRu Dendrimer-Encapsulated Nanoparticles. Relevance as Electrocatalysts for CO Oxidation 2011, 115, 1287-1294		30
905	Gold-platinum nanoparticles: alloying and phase segregation. 2011 , 21, 4012-4020		113
904	Alkanethiol Adsorption on Platinum: Chain Length Effects on the Quality of Self-Assembled Monolayers. 2011 , 115, 17788-17798		29
903	Thermodynamic Cartography and Structure/Property Mapping of Commercial Platinum Catalysts. <i>ACS Catalysis</i> , 2011 , 1, 76-81	3.1	25
902	Surface structures and electrochemical activities of Pt overlayers on Ir nanoparticles. 2011 , 27, 3128-37		19
901	Facile synthesis of noble metal nanotubes by using ZnO nanowires as sacrificial scaffolds and their electrocatalytic properties. 2011 , 47, 6299-301		29
900	Morphology-dependent nanocatalysis: metal particles. 2011 , 40, 5811-26		166
899	Effects of the Synthesis Parameters on the Size and Composition of PtBn Nanoparticles Prepared by the Polyalcohol Reduction Method. 2011 , 115, 19084-19090		26

898	Nanomaterials of high surface energy with exceptional properties in catalysis and energy storage. 2011 , 40, 4167-85	668
897	Facile sonochemical synthesis of carbon nanotube-supported bimetallic PtRh nanoparticles for room temperature hydrogenation of arenes. 2011 , 35, 1649	52
896	Shape and composition-controlled platinum alloy nanocrystals using carbon monoxide as reducing agent. 2011 , 11, 798-802	407
895	A density functional theory approach to mushroom-like platinum clusters on palladium-shell over Au core nanoparticles for high electrocatalytic activity. 2011 , 13, 5441-9	26
894	Attachment of Platinum Nanoparticles to Substrates by Coating and Polyol Reduction of A Platinum Precursor. 2011 , 115, 8519-8526	44
893	Nanostructured catalysts in fuel cells. 2011 , 21, 4027-4036	184
892	Etching-limited branching growth of cuprous oxide during ethanol-assisted solution synthesis. 2011 , 13, 2837	36
891	Templated synthesis of metal nanorods in silica nanotubes. 2011 , 133, 19706-9	168
890	Surfactant-induced postsynthetic modulation of Pd nanoparticle crystallinity. 2011 , 11, 1614-7	87
889	Strategic Synthesis of Trimetallic [email[protected]@Pt CoreBhell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. <i>Chemistry of 9.6 Materials</i> , 2011 , 23, 2457-2465	235
888	Three-Dimensional Structure of CeO2 Nanocrystals. 2011 , 115, 3544-3551	63
887	Microemulsions as reaction media for the synthesis of Pt nanoparticles. 2011 , 13, 3048-58	20
886	Novel standing Ni P t alloy nanocubes. 2011 , 13, 3364	21
885	Enhanced electrocatalytic oxygen reduction through electrostatic assembly of Pt nanoparticles onto porous carbon supports from SnCl2-stabilized suspensions. 2011 , 27, 5781-91	17
884	Highly symmetric polyhedral Cu2O crystals with controllable-index planes. 2011 , 13, 2217	67
883	Size Effect on Nanoparticle-Mediated Silver Crystal Growth. 2011 , 11, 5449-5456	15
882	Cu(2+)-assisted synthesis of hexoctahedral Au-Pd alloy nanocrystals with high-index facets. 2011 , 133, 17114-7	214
881	Enhanced oxygen reduction at Pd catalytic nanoparticles dispersed onto heteropolytungstate-assembled poly(diallyldimethylammonium)-functionalized carbon nanotubes. 2011 , 13, 4400-10	44

880	Pt-based composite nanoparticles for magnetic, catalytic, and biomedical applications. 2011 , 21, 12579	44
879	Simultaneous reduction-etching route to Pt/ZnSnO3 hollow polyhedral architectures for methanol electrooxidation in alkaline media with superior performance. 2011 , 47, 2447-9	17
878	Facile synthesis of Pd-Pt alloy nanocages and their enhanced performance for preferential oxidation of CO in excess hydrogen. 2011 , 5, 8212-22	223
877	Direct synthesis of hydrogen peroxide from hydrogen and oxygen over a Pd core-silica shell catalyst. 2011 , 12, 968-971	30
876	Synthesis and characterization of Pt B d nanoparticles with core-shell morphology: Nucleation and overgrowth of the Pd shells on the as-prepared and defined Pt seeds. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7702-7709	23
875	Shape-regulated high yield synthesis of electrocatalytically active branched Pt nanostructures for oxygen reduction and methanol oxidation reactions. 2011 , 21, 11973	37
874	Shape dependent electrocatalysis. 2011 , 107, 263	131
873	Nanocrystals composed of alternating shells of Pd and Pt can be obtained by sequentially adding different precursors. 2011 , 133, 10422-5	102
872	A versatile approach to processing of high active area pillar coral- and sponge-like Pt-nanostructures. Application to electrocatalysis. 2011 , 21, 4182	20
871	Structural Evolution of Plasma-Sputtered CoreBhell Nanoparticles for Catalytic Combustion of Methane. 2011 , 115, 24164-24171	17
870	Shape-controlled synthesis of PtPd coreBhell nanoparticles exhibiting polyhedral morphologies by modified polyol method. 2011 , 59, 2901-2907	51
869	Colloidal Hybrid Nanocrystals: Synthesis, Properties, and Perspectives. 2011 ,	
868	Development of Low-platinum Catalyst for Fuel Cells by Mechano-chemical Method. 2011 , 48, 364-369	3
867	A comparative study of Pt and PtPd coreBhell nanocatalysts. 2011 , 56, 9133-9143	57
866	Growth of platinum nanoparticles on stainless steel 316L current collectors to improve carbon-based supercapacitor performance. 2011 , 56, 10217-10222	44
865	High-yield, size-controlled synthesis of silver nanoplates and their applications as methanol-tolerant electrocatalysts in oxygen reduction reaction. 2011 , 36, 10502-10512	24
864	Effect of deposition potential on the structure and electrocatalytic behavior of Pt micro/nanoparticles. 2011 , 36, 15052-15059	35
863	Lattice contracted AgPt nanoparticles. 2011 , 47, 12595-7	25

862	Polyelectrolyte-aided synthesis of gold and platinum nanoparticles: Implications in electrocatalysis and sensing. 2011 , 124, n/a-n/a		2
861	Morphology-controlled synthesis and electrocatalytic characteristics of platinum structures on micro-patterned carbon nanotube platforms. 2011 , 41, 1425-1431		12
860	The renaissance of unsupported nanostructured catalysts for low-temperature fuel cells: from the size to the shape of metal nanostructures. 2011 , 46, 4435-4457		105
859	Ultrafine Pt Nanoclusters for the Direct Methanol Fuel Cell Reactions. 2011 , 22, 173-181		5
858	Synthesis and characterization of polyhedral and quasi-sphere non-polyhedral Pt nanoparticles: effects of their various surface morphologies and sizes on electrocatalytic activity for fuel cell applications. 2011 , 13, 5177-5191		15
857	Effects of heat treatment and poly(vinylpyrrolidone) (PVP) polymer on electrocatalytic activity of polyhedral Pt nanoparticles towards their methanol oxidation. 2011 , 289, 1373-1386		52
856	A facile room temperature chemical route to Pt nanocube/carbon nanotube heterostructures with enhanced electrocatalysis. 2011 , 196, 191-195		27
855	Crystallographic control of noble metal nanocrystals. <i>Nano Today</i> , 2011 , 6, 265-285	17.9	161
854	Nanostars shine bright for you: Colloidal synthesis, properties and applications of branched metallic nanoparticles. 2011 , 16, 118-127		319
853	Synthesis and electrocatalytic oxygen reduction properties of truncated octahedral Pt3Ni nanoparticles. <i>Nano Research</i> , 2011 , 4, 72-82	10	72
852	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse PtxNi1-x Nanoparticles. 2011 , 21, 147-152		204
851	Bimetallic nanocrystals: liquid-phase synthesis and catalytic applications. 2011 , 23, 1044-60		901
850	Strategies for the fabrication of porous platinum electrodes. 2011 , 23, 4976-5008		151
849	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. 2011 , 123, 442-446		110
848	Surfactant-Free Platinum-on-Gold Nanodendrites with Enhanced Catalytic Performance for Oxygen Reduction. 2011 , 123, 771-774		12
847	Platin-Elektrokatalysatoren mit Kern-Schale-Nanostruktur. 2011 , 123, 2726-2728		20
846	Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by {110} Facets: Auld Rhombic Dodecahedra. 2011, 123, 3528-3532		40
845	Mixing an Aqueous Suspension of Pd or Au Nanocrystals with a Less Polar Solvent Can Cause Changes to Size, Morphology, or Both. 2011 , 123, 6176-6179		

844	Triple-Layer (Au@Perylene)@Polyaniline Nanocomposite: Unconventional Growth of Faceted Organic Nanocrystals on Polycrystalline Au. 2011 , 123, 10072-10076		7
843	A highly durable platinum nanocatalyst for proton exchange membrane fuel cells: multiarmed starlike nanowire single crystal. 2011 , 50, 422-6		326
842	Surfactant-free platinum-on-gold nanodendrites with enhanced catalytic performance for oxygen reduction. 2011 , 50, 745-8		92
841	Platinum-based electrocatalysts with core-shell nanostructures. 2011 , 50, 2674-6		255
840	Polyhedral bimetallic alloy nanocrystals exclusively bound by {110} facets: Au-Pd rhombic dodecahedra. 2011 , 50, 3466-70		96
839	Mixing an aqueous suspension of Pd or Au nanocrystals with a less polar solvent can cause changes to size, morphology, or both. 2011 , 50, 6052-5		19
838	Triple-layer (au@perylene)@polyaniline nanocomposite: unconventional growth of faceted organic nanocrystals on polycrystalline Au. 2011 , 50, 9898-902		55
837	Synthesis of mesoporous Pt nanoparticles with uniform particle size from aqueous surfactant solutions toward highly active electrocatalysts. 2011 , 17, 8810-5		65
836	Methanol oxidation catalysis and substructure of PtRu/C bimetallic nanoparticles synthesized by a radiolytic process. 2011 , 396, 68-75		30
835	Au/Pt nanoparticle systems in methanol and carbon monoxide electroxidation. 2011 , 56, 3673-3678		15
834	Microwave-assisted synthesis of graphene-supported Pd1Pt3 nanostructures and their electrocatalytic activity for methanol oxidation. 2011 , 56, 7064-7070		80
833	Synthesis and characterization of Pt P d alloy and core-shell bimetallic nanoparticles for direct methanol fuel cells (DMFCs): Enhanced electrocatalytic properties of well-shaped core-shell morphologies and nanostructures. 2011 , 36, 8478-8491		131
832	Noble metal nanomaterials: Controllable synthesis and application in fuel cells and analytical sensors. <i>Nano Today</i> , 2011 , 6, 240-264	17.9	661
831	Highly monodisperse cubic and octahedral rhodium nanocrystals: Their evolutions from sharp polyhedrons into branched nanostructures and surface-enhanced Raman scattering. 2011 , 320, 78-89		18
830	Synthesis, Functionalization, Characterization, and Application of Controlled Shape Nanoparticles in Energy Production. 2011 , 127-163		13
829	Polymer end-group mediated synthesis of well-defined catalytically active platinum nanoparticles. 2011 , 21, 15788		13
828	Control of nanoparticle aggregation in PEMFCs using surfactants. 2012 , 7, 38-43		9
827	Influence of dose on particle size and optical properties of colloidal platinum nanoparticles. International Journal of Molecular Sciences, 2012, 13, 14723-41	6.3	93

826 Structural Characterization of Nanoparticles Obtained by a Polyol Synthesis in the Bimetallic System Pt-Pd. **2012**, 1372, 57

825	The Status of Catalysts in PEMFC Technology. 2012 , 329-368	2
824	Sharp cubic and octahedral morphologies of poly(vinylpyrrolidone)-stabilised platinum nanoparticles by polyol method in ethylene glycol: their nucleation, growth and formation mechanisms. 2012 , 7, 133-149	12
823	On the selective decoration of facets in metallic nanoparticles. 2012 , 27, 1777-1786	15
822	Tailoring nanostructured catalysts for electrochemical energy conversion systems. 2012 , 1, 427-453	10
821	In-Situ Monitoring of Particle Growth at PEMFC Cathode under Accelerated Cycling Conditions. 2012 , 15, B72	25
820	Effect of mass transfer on the oxygen reduction reaction catalyzed by platinum dendrimer encapsulated nanoparticles. 2012 , 109, 11493-7	36
819	Nanoscale materials for organohalide degradation via reduction pathways. 2012 , 1, 147-171	4
818	Room-temperature Fast Synthesis of Composition-adjustable PtPd Alloy Sub-10-nm Nanoparticle Networks with Improved Electrocatalytic Activities. 2012 , 41, 546-548	3
817	An Introduction of Controlled Sizes and Shapes of Nanostructured Materials and Their Applications. 2012 , 1-16	1
816	New Experimental Evidences of PtPd Bimetallic Nanoparticles with CoreBhell Configuration and Highly Fine-Ordered Nanostructures by High-Resolution Electron Transmission Microscopy. 2012 , 116, 12265-12274	35
815	The structure modification and activity improvement of PdfIo/C electrocatalysts by the addition of Au for the oxygen reduction reaction. 2012 , 2, 1654	11
814	Synthesis of octopus-tentacle-like Cu nanowire-Ag nanocrystals heterostructures and their enhanced electrocatalytic performance for oxygen reduction reaction. 2012 , 4, 6654-60	41
813	Electrochemiluminescence imaging-based high-throughput screening platform for electrocatalysts used in fuel cells. 2012 , 84, 7700-7	69
812	Carbon monoxide-assisted synthesis of single-crystalline Pd tetrapod nanocrystals through hydride formation. 2012 , 134, 7073-80	108
811	Surfactant-free preparation of supported cubic platinum nanoparticles. 2012 , 48, 1854-6	43
810	An unconventional role of ligand in continuously tuning of metal-metal interfacial strain. 2012 , 134, 2004-7	158
809	Controlled synthesis of Pd-Pt alloy hollow nanostructures with enhanced catalytic activities for oxygen reduction. 2012 , 6, 2410-9	316

808	Icosahedral platinum alloy nanocrystals with enhanced electrocatalytic activities. 2012, 134, 11880-3	445
807	Platinum-coated porous gold nanorods in methanol electrooxidation: dependence of catalytic activity on ligament size. 2012 , 7, 2937-41	4
806	Editorial: Catalyst Synthesis by Design for the Understanding of Catalysis. 2012, 4, 1445-1447	14
805	Synergistic Effect of a Carbon Black Supported PtAg Non-Alloy Bimetal Nanocatalyst for CO Preferential Oxidation in Excess Hydrogen. 2012 , 4, 1960-1967	6
804	High stability platinum electrocatalysts with zirconialarbon hybrid supports. 2012 , 22, 1135-1141	37
803	Synthesis of surfactant-free Pt concave nanoparticles in a freshly-made or recycled molten salt. 2012 , 14, 3197	9
802	Stabilisation of water-soluble platinum nanoparticles by phosphonic acid derivatives. 2012 , 41, 3407-13	8
801	Highly branched PtNi nanocrystals enclosed by stepped surface for methanol oxidation. 2012, 3, 1925	136
800	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. 2012 , 22, 12046	14
799	Partial Hydrogenation of C2H2 on Ag-Doped Pt Nanoparticles. 2012 , 116, 12982-12988	12
798	Interface synthesis of gold mesocrystals with highly roughened surfaces for surface-enhanced Raman spectroscopy. 2012 , 22, 1998-2006	75
797	Kinetically controlled overgrowth of Ag or Au on Pd nanocrystal seeds: from hybrid dimers to nonconcentric and concentric bimetallic nanocrystals. 2012 , 134, 15822-31	152
796	Growth of Pt Particles on the Anatase TiO2 (101) Surface. 2012 , 116, 12114-12123	56
795	Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. 2012 , 134, 1793-801	238
794	Applications of extended X-ray absorption fine-structure spectroscopy to studies of bimetallic nanoparticle catalysts. 2012 , 41, 8163-78	210
793	Stabilization of high-performance oxygen reduction reaction Pt electrocatalyst supported on reduced graphene oxide/carbon black composite. 2012 , 134, 12326-9	400
79 ²	New life of a forgotten method: Electrochemical route toward highly efficient Pt/C catalysts for low-temperature fuel cells. 2012 , 431-432, 120-125	44
791	Synthesis of crystalline silver nanoplates and their application for detection of nitrite in foods. 2012 , 664, 135-138	71

790	A dual-functional Pt/CNT TCO-free counter electrode for dye-sensitized solar cell. 2012 , 22, 25311		27
789	Palladium Nanoparticles Supported on FAl2O3 for Hydrogenation of 2-Tertiary Butyl Anthraquinone to Produce H2O2. 2012 , 33, 660-667		1
788	Facile one-step room-temperature synthesis of Pt3Ni nanoparticle networks with improved electro-catalytic properties. 2012 , 48, 2665-7		70
787	Colloidal Synthesis of Noble Metal Nanoparticles of Complex Morphologies. 2012 , 7-90		1
786	Facile Synthesis of Carbon-Supported Pdto CoreBhell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. <i>Chemistry of Materials</i> , 2012 , 24, 2274-2281	9.6	154
7 ⁸ 5	Modeling Nanomorphology in Noble Metal Particles: Thermodynamic Cartography. 2012 , 269-303		1
784	Cage-bell structured Au P t nanomaterials with enhanced electrocatalytic activity toward oxygen reduction. 2012 , 37, 13191-13199		17
783	Novel synthesis of N-doped porous carbons from collagen for electrocatalytic production of H2O2. 2012 , 126, 208-214		80
782	Facile synthesis of Pt nanocrystals/graphene composite with excellent methanol electro-oxidation performance. 2012 , 47, 4311-4315		13
781	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. <i>Nano Today</i> , 2012 , 7, 448-466	17.9	405
780	Hollow ruthenium nanoparticles with small dimensions derived from Ni@Ru core@shell structure: synthesis and enhanced catalytic dehydrogenation of ammonia borane. 2012 , 48, 8009-11		59
779	Supported Core/Shell Bimetallic Nanoparticles Synthesis by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2012 , 24, 2973-2977	9.6	132
778	Molecular Dynamic Simulations of the Effect on the Hydration of Nafion in the Presence of a Platinum Nanoparticle. 2012 , 116, 12890-12899		23
777	A comprehensive search for stable Pt-Pd nanoalloy configurations and their use as tunable catalysts. 2012 , 12, 4875-80		89
776	Electrostatic interaction based hollow Pt and Ru assemblies toward methanol oxidation. 2012 , 2, 7479		21
775	Surface lattice-engineered bimetallic nanoparticles and their catalytic properties. 2012 , 41, 8066-74		215
774	Composition-controlled PtCo alloy nanocubes with tuned electrocatalytic activity for oxygen reduction. 2012 , 4, 6228-34		89
773	Synthesis of spatially uniform metal alloys nanocrystals via a diffusion controlled growth strategy: The case of Au-Pd alloy trisoctahedral nanocrystals with tunable composition. <i>Nano Research</i> , 2012 , 5, 618-629	10	31

772	Weakly-coordinated stable platinum nanocrystals. 2012 , 14, 7607	29
771	Heterogeneous Au-Pt nanostructures with enhanced catalytic activity toward oxygen reduction. 2012 , 41, 2898-903	51
770	The compressibility of nanocrystalline Pt. 2012 , 101, 173111	13
769	Electron tomography and 3D molecular simulations of platinum nanocrystals. <i>Nanoscale</i> , 2012 , 4, 5125-3 / 1.7	11
768	Stability of Porous Platinum Nanoparticles: Combined In Situ TEM and Theoretical Study. 2012 , 3, 1106-10	12
767	Surfactant-Directed Synthesis of Ternary Nanostructures: Nanocubes, Polyhedrons, Octahedrons, and Nanowires of PtNiFe. Their Shape-Dependent Oxygen Reduction Activity. <i>Chemistry of</i> 9.6 <i>Materials</i> , 2012 , 24, 2527-2533	48
766	Highly active Pt3Pb and core-shell Pt3Pb-Pt electrocatalysts for formic acid oxidation. 2012, 6, 2818-25	155
765	Enhancing the activity and tuning the mechanism of formic acid oxidation at tetrahexahedral Pt nanocrystals by Au decoration. 2012 , 14, 16415-23	32
764	Tailored design of architecturally controlled Pt nanoparticles with huge surface areas toward superior unsupported Pt electrocatalysts. 2012 , 4, 2865-9	56
763	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. Chemistry of Materials, 2012 , 24, 1591-1598 9.6	148
762	Highly Active Bimetallic PdPt and CoPt Nanocrystals for Methanol Electro-oxidation. 2012, 116, 7464-7470	69
761	Enhancing the catalytic and electrocatalytic properties of Pt-based catalysts by forming bimetallic nanocrystals with Pd. 2012 , 41, 8035-49	438
760	Octahedral PtNi nanoparticle catalysts: exceptional oxygen reduction activity by tuning the alloy particle surface composition. 2012 , 12, 5885-9	470
759	Catalysis for Alternative Energy Generation. 2012,	18
75 ⁸	Development of nanoparticle composite technique for low pt-loading PEFCs. 2012, 684-688	
757	Solution-based synthesis and design of late transition metal chalcogenide materials for oxygen reduction reaction (ORR). 2012 , 8, 13-27	230
756	Metal corrosion for nanofabrication. 2012 , 8, 2621-35	25
755	Advanced Platinum Alloy Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012 , 2, 891-898	352

754	Preparation of Highly Active 40 wt.% Pt on Multiwalled Carbon Nanotube by Improved Impregnation Method for Fuel Cell Applications. 2012 , 12, 827-834	18
753	Solvothermal synthesis of Pt-Pd alloys with selective shapes and their enhanced electrocatalytic activities. <i>Nanoscale</i> , 2012 , 4, 2633-9	87
752	Cyclic electrodeposition of PtCu alloy: facile fabrication of highly porous platinum electrodes. 2012 , 24, 2916-21	61
751	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. 2012 , 124, 2404-2408	21
750	Tuning Complex Shapes in Platinum Nanoparticles: From Cubic Dendrites to Fivefold Stars. 2012 , 124, 4768-4772	10
749	Tuning complex shapes in platinum nanoparticles: from cubic dendrites to fivefold stars. 2012 , 51, 4690-4	73
748	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. 2012 , 4, 1668-1674	25
747	Study of the Durability of Faceted Pt3Ni Oxygen R eduction Electrocatalysts. 2012 , 4, 1572-1577	8
746	Mechanism of Pt(IV) sonochemical reduction in formic acid media and pure water. 2012, 18, 3879-85	25
745	Nanocube-aggregated cauliflower-like copper hierarchical architectures: synthesis, growth mechanism and electrocatalytic activity. 2012 , 14, 5737	15
744	Electrochemical biosensing based on noble metal nanoparticles. 2012 , 177, 245-270	156
743	Synthesis of PtPd bimetal nanocrystals with controllable shape, composition, and their tunable catalytic properties. 2012 , 12, 4265-70	207
742	Shape and Size Controlled Pt Nanocrystals as Novel Model Catalysts. 2012 , 16, 1-13	20
741	Evolution of Pt and Pt-Alloy Catalytic Surfaces Under Oxygen Reduction Reaction in Acid Medium. 2012 , 55, 322-335	35
740	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkk} high-index surfaces. <i>Nano Research</i> , 2012 , 5, 181-189	87
739	Colloidal Syntheses of Shape- and Size-Controlled Pt Nanoparticles for Electrocatalysis. 2012 , 3, 75-87	57
738	Improvement of activity for oxygen reduction reaction by decoration of Ir on PdCu/C catalyst. 2012 , 185, 138-142	39
737	Hierarchical structure SnO2 supported Pt nanoparticles as enhanced electrocatalyst for methanol oxidation. 2012 , 76, 475-479	25

(2013-2012)

736	Dendritic Ptttu bimetallic nanocrystals with a high electrocatalytic activity toward methanol oxidation. 2012 , 132, 244-247	36
735	Highly sensitive AlGaN/GaN diode-based hydrogen sensors using platinum nanonetworks. 2012 , 164, 64-68	29
734	Supercritical fluids in fuel cell research and development. 2012 , 62, 1-31	41
733	Removing polyvinylpyrrolidone from catalytic Pt nanoparticles without modification of superficial order. 2012 , 13, 709-15	62
732	Small adsorbate-assisted shape control of Pd and Pt nanocrystals. 2012 , 24, 862-79	369
731	Convex Polyhedral Au@Pd CoreBhell Nanocrystals with High-Index Facets. 2012 , 124, 163-167	22
730	Convex polyhedral Au@Pd core-shell nanocrystals with high-index facets. 2012 , 51, 159-63	123
729	Controlling the nucleation and growth of silver on palladium nanocubes by manipulating the reaction kinetics. 2012 , 51, 2354-8	193
728	Synthesis of nanostructured materials using supercritical CO2: Part II. Chemical transformations. 2012 , 47, 3469-3492	70
727	Structural characterization of Pt-Pd core-shell nanoparticles by Cs-corrected STEM. 2012 , 15, 1	27
726	Getrennt und gesch E zt mit fl\u00dfsigen Salzen. 2013 , 61, 754-757	12
725	A nanoscale-modified LaMer model for particle synthesis from inorganic tinplatinum complexes. 2013 , 1, 8903	16
724	The development of mixture, alloy, and core-shell nanocatalysts with nanomaterial supports for energy conversion in low-temperature fuel cells. 2013 , 2, 636-676	227
723	Multi-Metallic Nanoparticles as More Efficient Catalysts for Fuel Cell Reactions. 2013, 333-346	
722	Nanoalloy Catalysts in Electrochemical Energy Conversion and Storage. 2013, 307-344	2
721	Controlled synthesis of FePt-Au hybrid nanoparticles triggered by reaction atmosphere and FePt seeds. <i>Nanoscale</i> , 2013 , 5, 9141-9	30
720	Electrochemical synthesis of flower-like Pd nanoparticles with high tolerance toward formic acid electrooxidation. 2013 , 3, 15727	17
719	Electrocatalysis in Fuel Cells. 2013 ,	63

718	Octahedral noble-metal nanoparticles and their electrocatalytic properties. 2013, 6, 1848-57	6
717	Controlling the size of platinum nanoparticles prepared by cathodic corrosion. 2013 , 110, 796-800	17
716	Pt-Ni alloyed nanocrystals with controlled architectures for enhanced methanol oxidation. 2013 , 49, 8704-6	61
715	Electrostatic self-assembly of platinum nanochains on carbon nanotubes: A highly active electrocatalyst for the oxygen reduction reaction. 2013 , 140-141, 552-558	18
714	Electrocatalytic performance of Nicore@Ptshell/C coreBhell nanoparticle with the Pt in nanoshell. 2013 , 38, 14261-14268	22
713	AlGaN/GaN HEMT based hydrogen sensor with platinum nanonetwork gate electrode. 2013 , 13, 1746-1750	21
712	Nanoscale-phase-separated Pd-Rh boxes synthesized via metal migration: an archetype for studying lattice strain and composition effects in electrocatalysis. 2013 , 135, 14691-700	95
711	Monodisperse pattern nanoalloying for synergistic intermetallic catalysis. 2013 , 13, 5720-6	50
710	Confining the nucleation and overgrowth of Rh to the {111} facets of Pd nanocrystal seeds: the roles of capping agent and surface diffusion. 2013 , 135, 16658-67	60
709	Pt-Based CoreBhell Catalyst Architectures for Oxygen Fuel Cell Electrodes. 2013 , 4, 3273-3291	306
708	Potentiostatic deposition of differently shaped Pt and PtBi nanoparticles. 2013, 32, 375-379	3
707	A facile approach for in situ synthesis of graphene-branched-Pt hybrid nanostructures with excellent electrochemical performance. <i>Nanoscale</i> , 2013 , 5, 11265-74	46
706	Improved oxygen reduction reaction activities with amino acid R group functionalized PEG at platinum surfaces. 2013 , 1, 10267	4
705	Synthesis and characterization of mixed monolayer protected gold nanorods and their Raman activities. 2013 , 48, 4181-4185	8
704	Identification of Bot spots of the science of catalysis: bibliometric and thematic analysis of nowaday reviews and monographs. 2013 , 62, 2266-2278	5
703	Shape-enhanced ammonia electro-oxidation property of a cubic platinum nanocrystal catalyst prepared by surfactant-free synthesis. 2013 , 1, 14402	31
702	Synthesis of bimetallic Pt/Pd nanotubes and their enhanced catalytic activity in methanol electro-oxidation. 2013 , 1, 15252	29
701	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. 2013 , 52, 12577-81	164

(2013-2013)

700	Disproportionation route to monodispersed copper nanoparticles for the catalytic synthesis of propargylamines. 2013 , 3, 19812		27
699	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. 2013 , 1, 14449		57
698	Aqueous synthesis of porous platinum nanotubes at room temperature and their intrinsic peroxidase-like activity. 2013 , 49, 6024-6		106
697	Enhanced methanol oxidation and oxygen reduction reactions on palladium-decorated FeCo@Fe/C core-shell nanocatalysts in alkaline medium. 2013 , 15, 20982-91		30
696	Ternary electrocatalysts for oxidizing ethanol to carbon dioxide: making ir capable of splitting C-C bond. 2013 , 135, 132-41		149
695	Recent advances in electrocatalysts for electro-oxidation of ammonia. 2013, 1, 3216-3238		107
694	Synthesis of colloidal metal and metal alloy nanoparticles for electrochemical energy applications. 2013 , 42, 2880-904		445
693	Polyallylamine-directed green synthesis of platinum nanocubes. Shape and electronic effect codependent enhanced electrocatalytic activity. 2013 , 15, 3793-802		66
692	An atomistic thermodynamics study of the structural evolution of the Pt3Ni(111) surface in an oxygen environment. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 1434-1442	11.3	9
691	In situ analysis of optimum surface atom coordination for Pt nanoparticle oxygen reduction electrocatalysts. 2013 , 112, 258-268		15
691 690			15
	electrocatalysts. 2013 , 112, 258-268	11.3	22
690	electrocatalysts. 2013, 112, 258-268 Metal Nanoparticle Synthesis in Ionic Liquids. 2013, 17-53 Tuning the shape of ceria nanomaterials for catalytic applications. <i>Chinese Journal of Catalysis</i> , 2013	11.3	22
690 689	electrocatalysts. 2013, 112, 258-268 Metal Nanoparticle Synthesis in Ionic Liquids. 2013, 17-53 Tuning the shape of ceria nanomaterials for catalytic applications. <i>Chinese Journal of Catalysis</i> , 2013, 34, 838-850 Increase of catalyst utilization in polymer electrolyte membrane fuel cells by shape-selected Pt	11.3	70
690 689 688	electrocatalysts. 2013, 112, 258-268 Metal Nanoparticle Synthesis in Ionic Liquids. 2013, 17-53 Tuning the shape of ceria nanomaterials for catalytic applications. <i>Chinese Journal of Catalysis</i> , 2013, 34, 838-850 Increase of catalyst utilization in polymer electrolyte membrane fuel cells by shape-selected Pt nanoparticles. 2013, 38, 13393-13398 Palladium-based nanostructures with highly porous features and perpendicular pore channels as	11.3	22 70 12
690 689 688	electrocatalysts. 2013, 112, 258-268 Metal Nanoparticle Synthesis in Ionic Liquids. 2013, 17-53 Tuning the shape of ceria nanomaterials for catalytic applications. <i>Chinese Journal of Catalysis</i> , 2013, 34, 838-850 Increase of catalyst utilization in polymer electrolyte membrane fuel cells by shape-selected Pt nanoparticles. 2013, 38, 13393-13398 Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. 2013, 52, 2520-4 Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate	11.3	22 70 12
690 689 688 687	Metal Nanoparticle Synthesis in Ionic Liquids. 2013, 17-53 Tuning the shape of ceria nanomaterials for catalytic applications. Chinese Journal of Catalysis, 2013, 34, 838-850 Increase of catalyst utilization in polymer electrolyte membrane fuel cells by shape-selected Pt nanoparticles. 2013, 38, 13393-13398 Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. 2013, 52, 2520-4 Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. 2013, 113, 1904-2074 Ionic liquid assisted synthesis of Au-Pd bimetallic particles with enhanced electrocatalytic activity.	7.7	22 70 12 135 1008

682	Electrochemical Desorption of Thiolates and Sulfur from Nanoparticle and Planar Platinum Surfaces. 2013 , 117, 7589-7597	6
681	Morphology dependent oxygen reduction activity of titanium carbide: bulk vs. nanowires. 2013 , 15, 8744-51	45
680	Atomic layer deposition of platinum clusters on titania nanoparticles at atmospheric pressure. 2013 , 1, 4647	60
679	CoreBhell Catalysts in PEMFC Cathode Environments. 2013, 561-587	2
678	Switching-off toluene formation in the solvent-free oxidation of benzyl alcohol using supported trimetallic Au-Pd-Pt nanoparticles. 2013 , 162, 365-78	55
677	Morphology, dimension, and composition dependence of thermodynamically preferred atomic arrangements in Ag-Pt nanoalloys. 2013 , 162, 293-306	21
676	Impact of Organic Ligands on the Structure and Hydrogenation Performance of Colloidally Prepared Bimetallic PtSn Nanoparticles. 2013 , 5, 1803-1810	12
675	Electrocatalytic activity of Pd nanoparticles supported on poly(3,4-ethylenedioxythiophene)-graphene hybrid for ethanol electrooxidation. 2013 , 17, 1039-1047	28
674	Embedded branch-like organic/metal nanowire heterostructures: liquid-phase synthesis, efficient photon-plasmon coupling, and optical signal manipulation. 2013 , 25, 2784-8	36
673	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. <i>Nano Today</i> , 2013 , 8, 168-197	376
672	Plasmonic and catalytic AuPd nanowheels for the efficient conversion of light into chemical energy. 2013 , 52, 6063-7	135
671	Investigating the multiple roles of polyvinylpyrrolidone for a general methodology of oxide encapsulation. 2013 , 135, 9099-110	159
670	Aqueous-Phase Synthesis of Sub 10 nm Pdcore@Ptshell Nanocatalysts for Oxygen Reduction Reaction Using Amphiphilic Triblock Copolymers as the Reductant and Capping Agent. 2013 , 117, 13413-134	23 ³⁷
669	Detection of sub-femtomolar DNA based on double potential electrodeposition of electrocatalytic platinum nanoparticles. 2013 , 138, 4340-4	14
668	Nanoparticle adhesion in proton exchange membrane fuel cell electrodes. 2013, 241, 634-646	19
667	Platinum-based oxygen reduction electrocatalysts. 2013 , 46, 1848-57	774
666	One-Pot Controllable Synthesis of [email[protected] Heterogeneous Nanorods with Highly Tunable Plasmonic Absorption. <i>Chemistry of Materials</i> , 2013 , 25, 2580-2590	83
665	A facile strategy to Pt3Ni nanocrystals with highly porous features as an enhanced oxygen reduction reaction catalyst. 2013 , 25, 2974-9	211

(2013-2013)

664	Pseudocapacitive hausmannite nanoparticles with (101) facets: synthesis, characterization, and charge-transfer mechanism. 2013 , 6, 1983-92	20
663	Molecular architecture of cobalt porphyrin multilayers on reduced graphene oxide sheets for high-performance oxygen reduction reaction. 2013 , 52, 5585-9	226
662	The Effect of N and B Doping on Graphene and the Adsorption and Migration Behavior of Pt Atoms. 2013 , 117, 10523-10535	59
661	Highly uniform platinum icosahedra made by hot injection-assisted GRAILS method. 2013 , 13, 2870-4	150
660	Deposition of Monodisperse Platinum Nanoparticles of Controlled Size on Different Supports. 2013 , 02, 32-38	11
659	Fabrication of highly porous platinum electrodes for micro-scale applications by pulsed electrodeposition and dealloying. 2013 , 242, 255-263	23
658	Enhancement of oxygen reduction reaction on PtAu nanoparticles via CO induced surface Pt enrichment. 2013 , 129, 375-381	40
657	Novel biocompatible nanoreactor for silica/gold hybrid nanoparticles preparation. 2013 , 102, 778-82	6
656	Molecular Architecture of Cobalt Porphyrin Multilayers on Reduced Graphene Oxide Sheets for High-Performance Oxygen Reduction Reaction. 2013 , 125, 5695-5699	95
655	Heterogeneous catalysts need not be so "heterogeneous": monodisperse Pt nanocrystals by combining shape-controlled synthesis and purification by colloidal recrystallization. 2013 , 135, 2741-7	93
654	Thermodynamic Control of Metal Loading and Composition of Carbon Aerogel Supported Pt©u Alloy Nanoparticles by Supercritical Deposition. 2013 , 117, 6777-6787	36
653	One-pot synthesis and enhanced catalytic performance of Pd and Pt nanocages via galvanic replacement reactions. 2013 , 3, 12577	14
652	Kinetically controlled growth of polyhedral bimetallic alloy nanocrystals exclusively bound by high-index facets: Au-Pd hexoctahedra. 2013 , 9, 660-5	50
651	Ionic Liquids for the Synthesis and Stabilization of Metal Nanoparticles. 2013 , 68, 1059-1089	100
650	A Review on the Binary Oxide Nanomaterials for the Electrochemical Performance. 2013, 788, 11-14	
649	The Effect of PtRuir Nanoparticle Crystallinity in Electrocatalytic Methanol Oxidation. 2013, 6, 1621-1631	21
648	Morphology control of bimetallic nanostructures for electrochemical catalysts. 2013 , 2, 487-514	21
647	Platinum nanoparticles on the surface of silica modified with silicon hydride groups. 2013 , 44, 239-243	3

646	Enhanced stability of (111)-surface-dominant core-shell nanoparticle catalysts towards the oxygen reduction reaction. 2013 , 6, 1888-92	18
645	Plasmonic and Catalytic AuPd Nanowheels for the Efficient Conversion of Light into Chemical Energy. 2013 , 125, 6179-6183	43
644	A unique platinum-graphene hybrid structure for high activity and durability in oxygen reduction reaction. 2013 , 3, 2580	52
643	Hard-templating Synthesis of Mesoporous Pt-Based Alloy Particles with Low Ni and Co Contents. 2013 , 42, 447-449	12
642	Stabilized Metal Nanoparticles from Organometallic Precursors for Low Temperature Fuel Cells. 2013 , 7, 13-25	9
641	Palladium-Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. 2013 , 125, 2580-2584	52
640	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. 2013 , 125, 12809-12813	18
639	Synthesis, characterization, and growth simulations of Cu-Pt bimetallic nanoclusters. 2014 , 5, 1371-9	19
638	Component, Microstructure and Simulation Calculation Study of Bimetallic Pt-Cu Alloys Towards Catalyzing Methanol Oxidation Reaction. 2014 , 13, 1460012	
637	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. 2014 , 57, 13-25	38
636	Facile Synthesis of 3 D Platinum Dendrites with a Clean Surface as Highly Stable Electrocatalysts. 2014 , 6, 1538-1542	8
635	Speciation of [Pt(IV) Cl6-n Brn]2- (n = 0-6) and some of their mono-aquated [Pt(IV) Cl5-n Brn (H2O)]- (n = 0-5) anions in solution at low concentrations by means of ion-pairing reversed-phase ultra-high-performance liquid chromatography coupled to electrospray ionization quadrupole	1
634	Tuning the Composition of AuPt Bimetallic Nanoparticles for Antibacterial Application. 2014 , 126, 8265-8269	15
633	Facet-Controlled Metal Alloy Electrocatalysts for Oxygen Reduction Reaction: Unconventional Post Treatment of Pt3Ni Octahedral Catalysts for Enhanced Activity. 2014 , 61, 25-34	3
632	A direct one-step synthetic route to PdPt nanostructures with controllable shape, size, and composition for electrocatalytic applications. 2014 , 2, 19239-19246	19
631	One-step and rapid synthesis of reduced graphene oxide supported Pt nanodendrites by a microwave-assisted simultaneous reduction. 2014 , 49, 119-125	17
630	Reduction by water for eco-friendly, capping agent-free synthesis of ultrasmall platinum nanocrystals. 2014 , 595-596, 77-82	9
629	Investigating the activity enhancement on PtxCo1☑ alloys induced by a combined strain and ligand effect. 2014 , 245, 908-914	26

628	Mesoporous nano/micro noble metal particles: synthesis and applications. <i>Nanoscale</i> , 2014 , 6, 4438-57 7.7	96
627	A novel approach for the in situ synthesis of Pt-Pd nanoalloys supported on Fe3O4@C core-shell nanoparticles with enhanced catalytic activity for reduction reactions. 2014 , 6, 2671-8	106
626	Efficient chemoselective reduction of nitro compounds and olefins using PdPt bimetallic nanoparticles on functionalized multi-wall-carbon nanotubes. 2014 , 45, 25-29	33
625	Electrochemistry of nanoparticles. 2014 , 53, 3558-86	287
624	Shape-directed platinum nanoparticle synthesis: nanoscale design of novel catalysts. 2014 , 28, 1-17	71
623	Effects of composition and metal particle size on ethane dehydrogenation over PtxSn100☑/Mg(Al)O (70?x?100). 2014 , 311, 161-168	83
622	Controlling the size and composition of nanosized Pt-Ni octahedra to optimize their catalytic activities toward the oxygen reduction reaction. 2014 , 7, 1476-83	67
621	High loading Pt nanoparticles on functionalization of carbon nanotubes for fabricating nonenzyme hydrogen peroxide sensor. 2014 , 59, 221-6	79
620	Recent Advances in the Stabilization of Platinum Electrocatalysts for Fuel-Cell Reactions. 2014, 6, 26-45	155
619	Nanoparticle ensemble electrodes: fabrication by short-pulse sputtering and characterization by scanning probe microscopy and voltammetry. 2014 , 18, 2233-2243	3
618	Atomic layer-by-layer deposition of Pt on Pd nanocubes for catalysts with enhanced activity and durability toward oxygen reduction. 2014 , 14, 3570-6	380
617	Generation of Monodisperse, Shape-Controlled Single and Hybrid CoreBhell Nanoparticles via a Simple One-Step Process. 2014 , 24, 841-847	11
616	Dealloyed Pt2Os nanoparticles for enhanced oxygen reduction reaction in acidic electrolytes. 2014 , 150-151, 636-646	12
615	One-pot synthesis and electrocatalytic properties of Pd@Pt core-shell nanocrystals with tailored morphologies. 2014 , 20, 7901-5	35
614	One-pot synthesis of platinum nanocubes on reduced graphene oxide with enhanced electrocatalytic activity. 2014 , 10, 2336-9	41
613	Uniform size and composition tuning of PtNi octahedra for systematic studies of oxygen reduction reactions. 2014 , 309, 343-350	34
612	Amorphous carbon enriched with pyridinic nitrogen as an efficient metal-free electrocatalyst for oxygen reduction reaction. 2014 , 50, 557-9	93
611	Facile synthesis of Pt/Pd nanodendrites for the direct oxidation of methanol. 2014 , 25, 195702	26

610	Synthesis of Fe-doped octahedral Pt3Ni nanocrystals with high electro-catalytic activity and stability towards oxygen reduction reaction. 2014 , 4, 1895-1899		22
609	Icosahedral gold-platinum alloy nanocrystals in hollow silica: a highly active and stable catalyst for Ullmann reactions. 2014 , 50, 539-41		31
608	Methanol oxidation reaction activity of microwave-irradiated and heat-treated Pt/Co and Pt/Ni nano-electrocatalysts. 2014 , 39, 18871-18881		26
60 7	Bimetallic nanodendrites via selective overgrowth of noble metals on multiply twinned Au seeds. 2014 , 2, 6130-6137		32
606	Evolution of nanoscale amorphous, crystalline and phase-segregated PtNiP nanoparticles and their electrocatalytic effect on methanol oxidation reaction. 2014 , 16, 3593-602		51
605	Anisotropic growth-induced synthesis of dual-compartment Janus mesoporous silica nanoparticles for bimodal triggered drugs delivery. 2014 , 136, 15086-92		298
604	[email[protected]2 Catalyst Membranes Fabricated by Electrospinning and Atomic Layer Deposition. <i>ACS Catalysis</i> , 2014 , 4, 144-151	13.1	74
603	CO Oxidation Over TiO2-Supported PtEe Catalysts Prepared by Coimpregnation Methods. 2014 , 144, 1653-1660		20
602	Facile synthesis of high-quality Pt nanostructures with a controlled aspect ratio for methanol electro-oxidation. 2014 , 16, 8340-8343		11
601	Probing the surface of platinum nanoparticles with 13CO by solid-state NMR and IR spectroscopies. <i>Nanoscale</i> , 2014 , 6, 539-46	7.7	26
600	Fabrication of SPR Nanosensor Using Gold Nanoparticles and Self-Assembled Monolayer Technique for Detection of Cu2+ in an Aqueous Solution. 2014 , 35, 717-724		3
599	Synthesis of Au@ZIF-8 single- or multi-core-shell structures for photocatalysis. 2014 , 50, 8651-4		135
598	Wet chemical synthesis of intermetallic Pt3Zn nanocrystals via weak reduction reaction together with UPD process and their excellent electrocatalytic performances. <i>Nanoscale</i> , 2014 , 6, 7019-24	7.7	57
597	Learning from nature: introducing an epiphyte-host relationship in the synthesis of alloy nanoparticles by co-reduction methods. 2014 , 50, 9765-8		6
596	From Pt-rich dendrites to Ni-rich cuboctahedrons: structural evolution and electrocatalytic property studies. 2014 , 16, 5331-5337		8
595	Highly monodisperse multiple twinned AuCu-Pt trimetallic nanoparticles with high index surfaces. 2014 , 16, 16278-83		29
594	Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations. 2014 , 4, 35959-35965		61
593	Propane dehydrogenation over Al2O3 supported Pt nanoparticles: Effect of cerium addition. 2014 , 128, 283-288		17

592	Platinum Nanoparticles as Photoactive Substrates for Mass Spectrometry and Spectroscopy Sensors. 2014 , 118, 11432-11439	24
591	One-step synthesis of hybrid nanocrystals with rational tuning of the morphology. 2014 , 14, 6666-71	30
590	Pt-based nanoparticles on non-covalent functionalized carbon nanotubes as effective electrocatalysts for proton exchange membrane fuel cells. 2014 , 4, 46265-46284	51
589	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. 2014 , 50, 2077-88	22
588	Oxygen reduction reaction and peroxide generation on shape-controlled and polycrystalline platinum nanoparticles in acidic and alkaline electrolytes. 2014 , 30, 8995-9006	71
587	Small palladium islands embedded in palladium-tungsten bimetallic nanoparticles form catalytic hotspots for oxygen reduction. 2014 , 5, 5253	65
586	Semiconductor and metallic core-shell nanostructures: synthesis and applications in solar cells and catalysis. 2014 , 20, 11256-75	34
585	Effect of the type of Pt precursor on PtNi nanostructures for electro-oxidation of ammonia. 2014 , 147, 722-727	4
584	Aqueous solution synthesis of Pt-M (M = Fe, Co, Ni) bimetallic nanoparticles and their catalysis for the hydrolytic dehydrogenation of ammonia borane. 2014 , 6, 12429-35	90
583	Tuning the composition of AuPt bimetallic nanoparticles for antibacterial application. 2014 , 53, 8127-31	159
582	Nanoparticle catalysts for proton exchange membrane fuel cells: can surfactant effects be beneficial for electrocatalysis?. 2014 , 16, 11435-46	30
581	Synthesis of three-dimensional Pd nanospheres decorated with a Pt monolayer for the oxygen reduction reaction. 2014 , 39, 14018-14026	11
580	Electrospinning: a facile technique for fabricating polymeric nanofibers doped with carbon nanotubes and metallic nanoparticles for sensor applications. 2014 , 4, 52598-52610	126
579	Hydrogen induced p-phosphonic acid calix[8]arene controlled growth of Ru, Pt and Pd nanoparticles. 2014 , 50, 15167-70	13
578	Synthesis and electrocatalytic activity of Au@Pd core-shell nanothorns for the oxygen reduction reaction. <i>Nano Research</i> , 2014 , 7, 1205-1214	107
577	Effect of Stabilizing Polymers on Catalysis of Hydrotalcite-Supported Platinum Nanoparticles for Aerobic Oxidation of 1,2-Propanediol in Aqueous Solution at Room Temperature. 2014 , 118, 11723-11730	20
576	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. 2014 , 6, 252-257	21
575	Carbon monoxide tolerant platinum electrocatalysts on niobium doped titania and carbon nanotube composite supports. 2014 , 272, 845-859	30

574	High activity of cubic PtRh alloys supported on graphene towards ethanol electrooxidation. 2014 , 13662-71	73
573	Facile synthesis of Pd P t alloy concave nanocubes with high-index facets as electrocatalysts for methanol oxidation. 2014 , 16, 2411-2416	58
572	Reasons for the Differences in the Kinetics of Thermal Oxidation of the Support in Pt/C Electrocatalysts. 2014 , 118, 23835-23844	14
571	Amylamine stabilized platinum(0) nanoparticles: active and reusable nanocatalyst in the room temperature dehydrogenation of dimethylamine-borane. 2014 , 4, 1526-1531	92
57°	Preparation and cyclic voltammetric dissolution of corellhelllhell Aget Aget Agen anocubes and their comparison in oxygen reduction reaction in alkaline media. 2014 , 39, 5528-5536	12
569	Iridium-decorated palladium-platinum core-shell catalysts for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Journal of Colloid and Interface Science</i> , 2014 , 427, 91-7	19
568	Green synthesis of Pt-on-Pd bimetallic nanodendrites on graphene via in situ reduction, and their enhanced electrocatalytic activity for methanol oxidation. 2014 , 127, 377-383	45
567	Synthesis and Peroxidase-Like Activity of Salt-Resistant Platinum Nanoparticles by Using Bovine Serum Albumin as the Scaffold. 2014 , 6, 1543-1548	47
566	The role of twin boundary and surface energies in periodically twinned <111> nanowires. 2014 , 75, 180-187	6
565	Shape-Controllable Pulse Electrodeposition of Ultrafine Platinum Nanodendrites for Methanol Catalytic Combustion and the Investigation of their Local Electric Field Intensification by Electrostatic Force Microscope and Finite Element Method. 2014 , 136, 66-74	26
564	Synthesis of PtCu nanowires in nonaqueous solvent with enhanced activity and stability for oxygen reduction reaction. 2014 , 267, 380-387	51
563	Elektrochemie von Nanopartikeln. 2014 , 126, 3630-3660	44
562	Synthesis and Immobilization of Pt Nanoparticles on Amino-Functionalized Halloysite Nanotubes toward Highly Active Catalysts. 2015 , 5, 4	27
561	A New Approach towards Improving the Specific Energy and Specific Power of a Carbon-Based Supercapacitor using Platinum-Nanoparticles on Etched Stainless Steel Current Collector. 2015 , 83, 1053-106	50 ⁶
560	The Application of Bactericidal Silver Nanoparticles in Wound Treatment. 2015 , 5, 23	43
559	Enhancing the methanol tolerance of platinum nanoparticles for the cathode reaction of direct methanol fuel cells through a geometric design. 2015 , 5, 16219	24
558	Structure of Nanocrystalline Nickel Prepared by Powder Metallurgy. 2015 , 647, 102-107	
557	Facile Synthesis of Quasi-One-Dimensional Au/PtAu Heterojunction Nanotubes and Their Application as Catalysts in an Oxygen-Reduction Reaction. 2015 , 21, 7556-61	11

(2015-2015)

556	Recent Advances in the Synthesis and Electrocatalytic Applications of Platinum-Based Bimetallic Alloy Nanostructures. 2015 , 7, 3206-3228	58
555	Dual Lewis Acidic/Basic Pd0.5Ru0.5Poly(N-vinyl-2-pyrrolidone) Alloyed Nanoparticle: Outstanding Catalytic Activity and Selectivity in SuzukiMiyaura Cross-Coupling Reaction. 2015 , 7, 3887-3894	20
554	Mechanochemical Synthesis of Free-Standing Platinum Nanosheets and Their Electrocatalytic Properties. 2015 , 27, 4430-4437	41
553	Chitosan Waste-Derived Co and N Co-doped Carbon Electrocatalyst for Efficient Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015 , 2, 1806-1812	43
552	Coating Platinum Nanoparticles with Methyl Radicals: Effects on Properties and Catalytic Implications. 2015 , 21, 19000-9	13
551	Fabrication of Supported AuPt Alloy Nanocrystals with Enhanced Electrocatalytic Activity for Formic Acid Oxidation through Conversion Chemistry of Layer-Deposited Pt(2+) on Au Nanocrystals. 2015 , 11, 4884-93	16
550	Platinum nanoparticles/graphene-oxide hybrid with excellent peroxidase-like activity and its application for cysteine detection. 2015 , 140, 5251-6	81
549	Recent development in the preparation of nanoparticles as fuel cell catalysts. 2015 , 8, 89-97	21
548	Evolution from small sized Au nanoparticles to hollow Pt/Au nanostructures with Pt nanorods and a mechanistic study. 2015 , 5, 103797-103802	5
547	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. <i>Nano Research</i> , 2015 , 8, 82-96	77
546	Au B d Alloy Octapods with High Electrocatalytic Activity for the Oxidation of Formic Acid. 2015 , 32, 295-300	21
545	An Overview of One-Dimensional Metal Nanostructures for Electrocatalysis. 2015 , 19, 88-121	20
544	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. 2015 , 26, 094002	55
543	High-yield synthesis of sub-10 nm Pt nanotetrahedra with bare <111> facets for efficient electrocatalytic applications. 2015 , 7, 4998-5005	22
542	A Platinum Highly Concave Cube with one Leg on each Vertex as an Advanced Nanocatalyst for Electrocatalytic Applications. 2015 , 7, 1064-1069	22
541	Facile Synthesis of Carbon Supported Pd3[email[protected] Pt Core/Shell Electrocatalyst with a Remarkable Activity for Oxygen Reduction. 2015 , 119, 4052-4061	18
540	Atomic Structure of Bimetallic Nanoparticles in PtAg/C Catalysts: Determination of Components Distribution in the Range from Disordered Alloys to DoreBhell Structures. 2015, 119, 3217-3227	29
539	Noble metal-based composite nanomaterials fabricated via solution-based approaches. 2015 , 3, 3182-3223	82

538	Size-Controlled Synthesis of Platinum Copper Hierarchical Trigonal Bipyramid Nanoframes. 2015 , 127, 110-115		29
537	The Effect of Reducing Agents on the Electronic, Magnetic and Electrocatalytic Properties of Thiol-Capped Pt/Co and Pt/Ni Nanoparticles. 2015 , 6, 274-285		8
536	Growth of Au on Pt icosahedral nanoparticles revealed by low-dose in situ TEM. 2015 , 15, 2711-5		90
535	Achieving Site-Specificity in Multistep Colloidal Synthesis. 2015 , 137, 7624-7		66
534	Co@Pt coreEhell nanoparticles supported on carbon nanotubes as promising catalyst for methanol electro-oxidation. 2015 , 28, 344-350		28
533	Platinum Dendritic-Flowers Prepared by Tellurium Nanowires Exhibit High Electrocatalytic Activity for Glycerol Oxidation. 2015 , 7, 17725-30		42
532	Facile synthesis of Pt3Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 309-316	5.7	12
531	Enhanced methanol electrooxidation at Pt skin@PdPt nanocrystals. 2015, 3, 17771-17779		24
530	Phase properties of carbon-supported platinumgold nanoparticles for formic acid eletro-oxidation. 2015 , 294, 201-207		7
529	Effect of ionic liquid on the synthesis and electrocatalytic property of platinum-based bimetallic nanoparticles. 2015 , 482, 386-393		4
528	Ionic Liquids (ILs) in Organometallic Catalysis. 2015,		16
527	Engineering Ordered and Nonordered Porous Noble Metal Nanostructures: Synthesis, Assembly, and Their Applications in Electrochemistry. 2015 , 115, 8896-943		470
526	Increasing the Collision Rate of Particle Impact Electroanalysis with Magnetically Guided Pt-Decorated Iron Oxide Nanoparticles. 2015 , 9, 7583-95		43
525	Cu2+ underpotential-deposition assisted synthesis of Au and Au B d alloy nanocrystals with systematic shape evolution. 2015 , 17, 5556-5561		12
524	Impacts of Copper Position on the Electronic Structure of [Au25-xCux(SH)18][Nanoclusters. 2015 , 119, 8290-8298		24
523	Au-Ag core-shell nanoparticle array by block copolymer lithography for synergistic broadband plasmonic properties. 2015 , 9, 5536-43		112
522	Challenges of modelling real nanoparticles: Ni@Pt electrocatalysts for the oxygen reduction reaction. 2015 , 17, 28286-97		22
521	Carbon-supported Pt-based alloy electrocatalysts for the oxygen reduction reaction in polymer electrolyte membrane fuel cells: particle size, shape, and composition manipulation and their impact to activity. 2015 , 115, 3433-67		907

(2015-2015)

520	Real-time monitoring of H2O2 release from single cells using nanoporous gold microelectrodes decorated with platinum nanoparticles. 2015 , 140, 3753-8	35
519	N- and S-doped high surface area carbon derived from soya chunks as scalable and efficient electrocatalysts for oxygen reduction. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 014803 ^{7.1}	24
518	Porous-structured platinum nanocrystals supported on a carbon nanotube film with super catalytic activity and durability. 2015 , 3, 7862-7869	8
517	First-principles calculations of the dissolution and coalescence properties of Pt nanoparticle ORR catalysts: The effect of nanoparticle shape. <i>Nano Research</i> , 2015 , 8, 1689-1697	32
516	Air- and water-resistant noble metal coated ferromagnetic cobalt nanorods. 2015, 9, 2792-804	25
515	Synthesis of Pt dendritic nanocubes with enhanced catalytic properties. 2015 , 5, 16497-16500	8
514	Facile synthesis of PtCu nanowires with enhanced electrocatalytic activity. <i>Nano Research</i> , 2015 , 8, 2308-2316	83
513	Metal-free catalysts for oxygen reduction reaction. 2015 , 115, 4823-92	1763
512	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , 2015 , 10, 240-267 17.9	149
511	Noble metal alloy complex nanostructures: controllable synthesis and their electrochemical property. 2015 , 44, 3056-78	359
510	Polyhedral Pt vs. spherical Pt nanoparticles on commercial titanias: Is shape tailoring a guarantee of achieving high activity?. 2015 , 325, 156-167	22
509	Platinum Nanoparticle During Electrochemical Hydrogen Evolution: Adsorbate Distribution, Active Reaction Species, and Size Effect. <i>ACS Catalysis</i> , 2015 , 5, 2376-2383	81
508	Noble Metal Nanomaterials: Synthetic Routes, Fundamental Properties, and Promising Applications. 2015 , 66, 131-211	12
507	A seed-mediated approach to the morphology-controlled synthesis of bimetallic copper p latinum alloy nanoparticles with enhanced electrocatalytic performance for the methanol oxidation reaction. 2015 , 286, 488-494	39
506	Atomistic investigation on the diffusion mechanism of Pt nanoclusters on well-aligned multi-walled carbon nanotubes. 2015 , 103, 157-164	1
505	Enhancement of the catalytic performance of a CNT supported Pt nanorod cluster catalyst by controlling their microstructure. 2015 , 5, 80176-80183	3
504	Preparation and electrocatalytic performance of the Pt supported on the alkali-treated nanoporous TiO2 material. 2015 , 21, 2863-2869	2
503	Recent advances in surface and interface engineering for electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1476-1493	35

502	Efficient and facile tuning of Vulcan XC72 with ultra-small Pt nanoparticles for electrocatalytic applications. 2015 , 5, 90691-90697		16
501	Engineering Structural Diversity in Gold Nanocrystals by Ligand-Mediated Interface Control. <i>Chemistry of Materials</i> , 2015 , 27, 8032-8040	9.6	13
500	Epitaxial Growth of ZnO Films on Patternedc-Plane GaN Layer Using Hydrothermal Method. 2015 , 4, N111-N116		3
499	Wet-chemical synthesis and applications of non-layer structured two-dimensional nanomaterials. 2015 , 6, 7873		425
498	Growth of Cu particles on a Cu2O truncated octahedron: tuning of the Cu content for efficient glucose sensing. 2015 , 17, 24361-9		18
497	Core-shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. 2015 , 44, 7540-90		696
496	Reduced graphene oxide nanosheets decorated with Au, Pd and Au P d bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. 2015 , 3, 20254-20266		121
495	Etching approach to hybrid structures of PtPd nanocages and graphene for efficient oxygen reduction reaction catalysts. <i>Nano Research</i> , 2015 , 8, 2789-2799	10	34
494	Large-scale template-free synthesis of ordered mesoporous platinum nanocubes and their electrocatalytic properties. <i>Nanoscale</i> , 2015 , 7, 19461-7	7.7	19
493	Key parameters governing metallic nanoparticle electrocatalysis. <i>Nanoscale</i> , 2015 , 7, 16151-64	7.7	39
492	Toward Ending the Guessing Game: Study of the Formation of Nanostructures Using In Situ Liquid Transmission Electron Microscopy. 2015 , 6, 5051-61		27
491	In Situ Study of Fe3Pt-Fe2O3 Core-Shell Nanoparticle Formation. 2015 , 137, 14850-3		42
490	Stable and methanol tolerant Pt/TiOx-C electrocatalysts for the oxygen reduction reaction. 2015 , 40, 14529-14539		27
489	Selective electrocatalysts toward a prototype of the membraneless direct methanol fuel cell. 2014 , 4, 3813		25
488	Synthesis of shaped Pt nanoparticles using common anions or small molecules as shape-directing agents: observation of a strong halide or pseudo-halide effect. 2015 , 3, 2012-2018		19
487	Evidence for Independent Glycerol Electrooxidation Behavior on Different Ordered Domains of Polycrystalline Platinum. <i>ChemElectroChem</i> , 2015 , 2, 263-268	4.3	33
486	Metal-Based Composite Nanomaterials. 2015 ,		5
485	Size-controlled synthesis of platinum-copper hierarchical trigonal bipyramid nanoframes. 2015 , 54, 108	-13	141

(2016-2015)

484	Spiny-porous platinum nanotubes with enhanced electrocatalytic activity for methanol oxidation. 2015 , 3, 1388-1391	25
483	Stellated Ag-Pt bimetallic nanoparticles: an effective platform for catalytic activity tuning. 2014 , 4, 3969	63
482	Metallic Nanostructures for Electrocatalysis. 2015 , 205-241	
481	Metallic Nanostructures. 2015,	11
480	Porous Core-Shell Platinum-Silver Nanocatalyst for the Electrooxidation of Methanol. 2015 , 27, 135-143	9
479	Capillary force lithography: the versatility of this facile approach in developing nanoscale applications. <i>Nanoscale</i> , 2015 , 7, 401-14	33
478	Graphitized carbon nanofiber-Pt nanoparticle hybrids as sensitive tool for preparation of screen printing biosensors. Detection of lactate in wines and ciders. 2015 , 101, 58-65	47
477	Bibliography. 2016 , 10, 289-327	
476	Synthesis and experimental characterization of nanoalloy structures. 2016 , 10, 47-74	3
475	Electrochemical Behavior of GoldBilver Alloy Nanoparticles. <i>ChemElectroChem</i> , 2016 , 3, 1039-1043 4.3	11
474	In situfabricated platinumpoly(vinyl alcohol) nanocomposite thin film: a highly reusable dip catalyst for hydrogenation. 2016 , 3, 045018	4
473	Effects of Pt shell thickness on self-assembly monolayer Pd@Pt core-shell nanocrystals based hydrogen sensing. 2016 , 41, 15399-15410	25
472	One-pot synthesis of Pd@Pt coreBhell nanocrystals for electrocatalysis: control of crystal morphology with polyoxometalate. 2016 , 18, 6029-6034	8
47 ¹	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. 2016 , 116, 10414-72	1046
470	Recent Development of Platinum-Based Nanocatalysts for Oxygen Reduction Electrocatalysis. 2016 , 253-280	2
469	Nanomaterials for Fuel Cell Catalysis. 2016 ,	10
468	Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. 2016 , 31-92	7
467	Morphological and Interfacial Control of Platinum Nanostructures for Electrocatalytic Oxygen Reduction. <i>ACS Catalysis</i> , 2016 , 6, 5260-5267	100

466	In situ ETEM study of composition redistribution in Pt-Ni octahedral catalysts for electrochemical reduction of oxygen. 2016 , 62, 399-407	19
465	Regioselective Atomic Rearrangement of Ag-Pt Octahedral Catalysts by Chemical Vapor-Assisted Treatment. 2016 , 16, 7988-7992	19
464	Explicit Detection of the Mechanism of Platinum Nanoparticle Shape Control by Polyvinylpyrrolidone. 2016 , 120, 7532-7542	29
463	Controlling the Growth of Au on Icosahedral Seeds of Pd by Manipulating the Reduction Kinetics. 2016 , 120, 20768-20774	22
462	Fibrous AuPt bimetallic nanocatalyst with enhanced catalytic performance. 2016 , 6, 27696-27705	14
461	Monodisperse PdCu@PtCu Core@Shell nanocrystal and their high activity and durability for oxygen reduction reaction. 2016 , 192, 227-233	8
460	Kinetics of precipitation of non-ideal solid-solutions in a liquid environment. 2016 , 431, 20-35	5
459	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. 2016 , 779, 156-160	5
458	Shape evolution of carbon supported Pt nanoparticles: From synthesis to application. 2016 , 196, 174-184	13
457	Atomic structure of PtCu nanoparticles in PtCu/C catalysts from EXAFS spectroscopy data. 2016 , 58, 752-762	12
456	Controlled synthesis of highly multi-branched Pt-based alloy nanocrystals with high catalytic performance. 2016 , 18, 2356-2362	14
455	Room temperature photo-induced deposition of platinum mirrors and nano-layers from simple Pt(II) precursor complexes in waterfhethanol solutions. 2016 , 6, 34014-34018	8
454	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. 2016 , 4, 7352-7364	51
453	Recent advances in the design of tailored nanomaterials for efficient oxygen reduction reaction. 2016 , 29, 149-165	162
452	Surface-functionalizable amphiphilic nanoparticles for pickering emulsions with designer fluidfluid interfaces. 2016 , 6, 39926-39932	22
451	Shape-controlled synthesis of Au-Pd bimetallic nanocrystals for catalytic applications. 2016 , 45, 3916-34	193
450	Guide to by-products formed in organic solvents under solvothermal conditions. 2016 , 113, 166-197	24
449	Particle-mediated nucleation and growth of solution-synthesized metal nanocrystals: A new story beyond the LaMer curve. <i>Nano Today</i> , 2016 , 11, 145-167	90

448	Molecular dynamics simulations of ternary PtxPdyAuz fuel cell nanocatalyst growth. 2016 , 41, 22589-22.	597	7
447	Pt-Containing Heterogeneous Nanomaterials for Methanol Oxidation and Oxygen Reduction Reactions. 2016 , 93-168		
446	Facile fabrication of highly durable Pt NPs/3D graphene hierarchical nanostructure for proton exchange membrane fuel cells. 2016 , 109, 805-812		10
445	Large faceted Pd nanocrystals supported small Pt nanoparticles as highly durable electrocatalysts for oxygen reduction. 2016 , 326, 23-34		13
444	NANOMATERIALS PROPERTIES. 2016 , 2657-2706		
443	Shaping electrocatalysis through tailored nanomaterials. <i>Nano Today</i> , 2016 , 11, 587-600	17.9	114
442	Engineering high-energy surfaces of noble metal nanocrystals with enhanced catalytic performances. <i>Nano Today</i> , 2016 , 11, 661-677	17.9	66
441	Melanoma Prevention: Challenges and Progresses in Nanotechnology for Melanoma Prevention and Treatment. 2016 , 480-497		
440	Pt/C nanocatalysts for methanol electrooxidation prepared by water-in-oil microemulsion method. 2016 , 20, 3405-3414		1
439	Electron transfer number control of the oxygen reduction reaction on nitrogen-doped reduced graphene oxides for the air electrodes of zinc-air batteries and organic degradation. 2016 , 183, 551-560		7
438	Continuous Production of Carbon-Supported Cubic and Octahedral Platinum-Based Catalysts Using Conveyor Transport System. 2016 , 12, 4808-4814		4
437	Rudimentary simple, single step fabrication of nano-flakes like AgCd alloy electro-catalyst for oxygen reduction reaction in alkaline fuel cell. 2016 , 212, 122-129		8
436	Formation of Asymmetric Bowl-Like Mesoporous Particles via Emulsion-Induced Interface Anisotropic Assembly. 2016 , 138, 11306-11		205
435	Self-Heating Approach to the Fast Production of Uniform Metal Nanostructures. 2016 , 2, 37-41		5
434	Structural evolution of concave trimetallic nanocubes with tunable ultra-thin shells for oxygen reduction reaction. <i>Nanoscale</i> , 2016 , 8, 16640-16649	7.7	31
433	Two stage formation of silver nanoparticles in PZT thin films controlled by re-nucleation through transition phase of Ag-Pb alloy. 2016 , 616, 252-259		2
432	Electrochemical Characterisation of Platinum Nanoparticles Prepared in a Water-in-Oil Microemulsion in the Presence of Different Modifiers and Metal Precursors. <i>ChemElectroChem</i> , 2016 , 3, 1601-1608	4.3	4
431	Asymmetric Au-core Pd-shell nanoparticles supported on reduced graphene oxide for enhanced electrocatalytic activity. 2016 , 6, 84334-84341		9

430	One-Step Synthesis of Platinum Nanochain Networks toward Methanol Electrooxidation. <i>ChemElectroChem</i> , 2016 , 3, 2093-2099	4.3	9
429	Inclusion of Ethyl Acetoacetate Bearing 7-Hydroxycoumarin Dye by ¶Cyclodextrin and its Cooperative Assembly with Mercury(II) Ions: Spectroscopic and Molecular Modeling Studies. 2016 , 17, 3300-3308		4
428	Porous Pt Aggregates Deposited on a Carbon Nanotube Film with High Catalytic Activity and Durability. <i>ChemElectroChem</i> , 2016 , 3, 1908-1914	4.3	3
427	In situ synthesis of PtPd bimetallic nanocatalysts supported on graphene nanosheets for methanol oxidation using triblock copolymer as reducer and stabilizer. 2016 , 783, 132-139		26
426	In Situ Environmental TEM in Imaging Gas and Liquid Phase Chemical Reactions for Materials Research. 2016 , 28, 9686-9712		88
425	Solvent-controlled platinum nanocrystals with a high growth rate along <100> to <111> and enhanced electro-activity in the methanol oxidation reaction. 2016 , 6, 89098-89102		5
424	Asymmetric silica encapsulation toward colloidal Janus nanoparticles: a concave nanoreactor for template-synthesis of an electocatalytic hollow Pt nanodendrite. <i>Nanoscale</i> , 2016 , 8, 14593-9	7.7	13
423	Heterostructured palladium-platinum core-shell nanocubes for use in a nonenzymatic amperometric glucose sensor. 2016 , 183, 3311-3320		23
422	Gold Nanofiber-Based Electrodes for Plasmon-Enhanced Electrocatalysis. 2016 , 163, H1132-H1135		14
421	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. 2016 , 354, 1414-1419		986
421 420			986
	reaction. 2016 , 354, 1414-1419 Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol		
420	reaction. 2016 , 354, 1414-1419 Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol electrooxidation. 2016 , 222, 1094-1102		21
420 419	Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol electrooxidation. 2016, 222, 1094-1102 Anisotropic etching of platinum electrodes at the onset of cathodic corrosion. 2016, 7, 12653 Small gold nanocomposites obtained in reverse micelles as nanoreactors. Effect of surfactant,		21
420 419 418	Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol electrooxidation. 2016, 222, 1094-1102 Anisotropic etching of platinum electrodes at the onset of cathodic corrosion. 2016, 7, 12653 Small gold nanocomposites obtained in reverse micelles as nanoreactors. Effect of surfactant, optical properties and activity against Pseudomonas aeruginosa. 2016, 40, 10432-10439 Synthesis and Application of Metal Nanoparticle Catalysts in Ionic Liquid Media using Metal		21 49 7
420 419 418 417	Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol electrooxidation. 2016, 222, 1094-1102 Anisotropic etching of platinum electrodes at the onset of cathodic corrosion. 2016, 7, 12653 Small gold nanocomposites obtained in reverse micelles as nanoreactors. Effect of surfactant, optical properties and activity against Pseudomonas aeruginosa. 2016, 40, 10432-10439 Synthesis and Application of Metal Nanoparticle Catalysts in Ionic Liquid Media using Metal Carbonyl Complexes as Precursors. 2016, 147-169		21 49 7
419 418 417 416	Free-standing ternary PtPdRu nanocatalysts with enhanced activity and durability for methanol electrooxidation. 2016, 222, 1094-1102 Anisotropic etching of platinum electrodes at the onset of cathodic corrosion. 2016, 7, 12653 Small gold nanocomposites obtained in reverse micelles as nanoreactors. Effect of surfactant, optical properties and activity against Pseudomonas aeruginosa. 2016, 40, 10432-10439 Synthesis and Application of Metal Nanoparticle Catalysts in Ionic Liquid Media using Metal Carbonyl Complexes as Precursors. 2016, 147-169 Shape-Controlled Synthesis of Pt Nanopeanuts. 2016, 6, 31404		21 49 7 1

(2016-2016)

412	Hierarchical Pt/PtxPb Core/Shell Nanowires as Efficient Catalysts for Electrooxidation of Liquid Fuels. <i>Chemistry of Materials</i> , 2016 , 28, 4447-4452	9.6	84	
411	Facile synthesis of platinum octahedra and cubes through the manipulation of reduction kinetics. 2016 , 27, 1862-1867		4	
410	Recent advances in Pt-based octahedral nanocrystals as high performance fuel cell catalysts. 2016 , 4, 11559-11581		49	
409	Highly-branched mesoporous Au-Pd-Pt trimetallic nanoflowers blooming on reduced graphene oxide as an oxygen reduction electrocatalyst. 2016 , 52, 8659-62		47	
408	A green synthesis of BakedIPt and PtPd catalysts for highly efficient methanol electrooxidation. 2016 , 6, 56083-56090		11	
407	Comparative Synthesis of Cu and Cu2O Nanoparticles from Different Copper Precursors in an Ionic Liquid or Propylene Carbonate. 2016 , 2016, 2106-2113		15	
406	Construction of three-dimensional models of bimetallic nanoparticles based on X-ray absorption spectroscopy data. 2016 , 120, 926-932		7	
405	CoreBhell Nanostructured Au@NimPt2Electrocatalysts with Enhanced Activity and Durability for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016 , 6, 1680-1690	13.1	67	
404	High second-order nonlinear response of platinum nanoflowers: the role of surface corrugation. <i>Nanoscale</i> , 2016 , 8, 3489-95	7.7	6	
403	Control of the composition of Pt-Ni electrocatalysts in surfactant-free synthesis using neat N-formylpiperidine. <i>Nanoscale</i> , 2016 , 8, 2548-53	7.7	11	
402	Platinum-based heterogeneous nanomaterials via wet-chemistry approaches toward electrocatalytic applications. 2016 , 230, 29-53		44	
401	Chloride (Cl(-)) ion-mediated shape control of palladium nanoparticles. 2016 , 27, 065603		23	
400	Green and rapid synthesis of a water-dispersible PtDeduced graphene oxide hybrid material for hydrogen peroxide detection. 2016 , 8, 816-823		7	
399	Unravelling Thiol's Role in Directing Asymmetric Growth of Au Nanorod-Au Nanoparticle Dimers. 2016 , 16, 617-23		46	
398	Supersaturation-controlled surface structure evolution of Pd@Pt core-shell nanocrystals: enhancement of the ORR activity at a sub-10 nm scale. <i>Nanoscale</i> , 2016 , 8, 1698-703	7.7	22	
397	Gold-catalyzed formation of corelinell goldpalladium nanoparticles with palladium shells up to three atomic layers. 2016 , 4, 3813-3821		51	
396	A sensitive enzyme-free hydrogen peroxide sensor based on a chitosan@raphene quantum dot/silver nanocube nanocomposite modified electrode. 2016 , 8, 2448-2455		21	
395	Reactivity of boron- and nitrogen-doped carbon nanotubes functionalized by (Pt, Eu) atoms toward O2 and CO: A density functional study. 2016 , 27, 1650075		2	

394	Output Coupling of Perovskite Lasers from Embedded Nanoscale Plasmonic Waveguides. 2016 , 138, 2122-5		115
393	Hybrid Vesicles with Alterable Fully Covered Armors of Nanoparticles: Fabrication, Catalysis, and Surface-Enhanced Raman Scattering. 2016 , 32, 991-6		18
392	Shape-controlled continuous synthesis of metal nanostructures. <i>Nanoscale</i> , 2016 , 8, 7534-43	7.7	57
391	Pt-M/C (M = Cu, Ag) electrocatalysts with an inhomogeneous distribution of metals in the nanoparticles. 2016 , 41, 1609-1626		35
390	Photo-catalyzed and phyto-mediated rapid green synthesis of silver nanoparticles using herbal extract of Salvinia molesta and its antimicrobial efficacy. 2016 , 155, 51-9		52
389	Bio-directed one-pot synthesis of Pt-Pd alloyed nanoflowers supported on reduced graphene oxide with enhanced catalytic activity for ethylene glycol oxidation. 2016 , 188, 696-703		43
388	Increased activity in hydrogen evolution electrocatalysis for partial anionic substitution in cobalt oxysulfide nanoparticles. 2016 , 4, 2842-2848		24
387	Pt3Re alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. 2016 , 20, 202-211		31
386	Underpotential Deposition and Related Phenomena at the Nanoscale: Theory and Applications. 2016 , 277-334		3
385	A simple synthesis of urchin-like Pt-Ni bimetallic nanostructures as enhanced electrocatalysts for the oxygen reduction reaction. 2016 , 52, 597-600		44
384	Synthesis of Au@UiO-66(NH2) structures by small molecule-assisted nucleation for plasmon-enhanced photocatalytic activity. 2016 , 52, 116-9		87
383	Effect of the OHIPt Ratio During Polyol Synthesis on Metal Loading and Particle Size in DMFC Catalysts. 2016 , 7, 13-21		6
382	Influence of the metal loading on the electrocatalytic activity of carbon-supported (100) Pt nanoparticles. 2016 , 20, 1107-1118		6
381	Surface Coordination Chemistry of Metal Nanomaterials. 2017 , 139, 2122-2131		381
380	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. 2017 , 91, 885-891		201
379	Electrocatalysts for low temperature fuel cells. 2017 , 285, 3-12		41
378	The comparison of direct borohydride-hydrogen peroxide fuel cell performance with membrane electrode assembly prepared by catalyst coated membrane method and catalyst coated gas diffusion layer method using Ni@Pt/C as anodic catalyst. 2017 , 42, 10363-10375		19
377	Bifunctional Ag@SiO2/Au Nanoparticles for Probing Sequential Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. 2017 , 3, 245-251		9

376	Platinum Supported on Functionalized Carbon Nanotubes for Oxygen Reduction Reaction in PEM/AEM Hybrid Fuel Cells. 2017 , 164, F217-F223	5
375	Core-Shell Au-Pt Nanoparticles and Nanodendrites for Methanol Oxidation Reaction. 2017 , 1142, 234-237	
374	Electrochemically Shape-Controlled Nanoparticles. 2017 , 59-95	1
373	One-Dimensional Pt Nanostructures for Polymer Electrolyte Membrane Fuel Cells. 2017 , 145-198	
372	A unique approach to designing resilient bi-functional nano-electrocatalysts based on ultrafine bimetallic nanoparticles dispersed in carbon nanospheres. 2017 , 5, 10544-10553	28
37 ¹	Recent Advances in Nanostructured Electrocatalysts for Low-temperature Direct Alcohol Fuel Cells. 2017 , 347-371	4
370	Chitosan-Covered Pd@Pt Core-Shell Nanocubes for Direct Electron Transfer in Electrochemical Enzymatic Glucose Biosensor. 2017 , 2, 1896-1904	48
369	Electrochemical Cleaning of Polyvinylpyrrolidone-capped Pt Nanocubes for the Oxygen Reduction Reaction. 2017 , 241, 544-552	30
368	Facile solvothermal synthesis of Pt76Co24 nanomyriapods for efficient electrocatalysis. 2017 , 5, 10554-10	560 ₄₇
367	Synthesis of NiPt alloy nanoparticles by galvanic replacement method for direct ethanol fuel cell. 2017 , 42, 13192-13197	12
366	Electrocatalytic performance of Ni@Pt coreBhell nanoparticles supported on carbon nanotubes for methanol oxidation reaction. 2017 , 795, 17-25	52
365	Stable structure optimization of Pt-X-Cu (X = Au, Ag, Pd and Rh) trimetallic nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 716, 240-250 5.7	7 14
364	Phase behavior of Pttu nanoparticles with different architecture upon their thermal treatment. 2017 , 12, 147-155	13
363	Diffraction peak profiles of surface relaxed spherical nanocrystals. 2017 , 97, 2317-2346	5
362	Nanocrystal Catalysts of High-Energy Surface and Activity. 2017, 177, 439-475	2
361	Shell-Thickness-Controlled Synthesis of Core-Shell Pd@Pt Nanocubes and Tuning of Their Oxygen Reduction Activities. 2017 , 164, H112-H118	8
360	Solvent-Mediated Shape Tuning of Well-Defined Rhodium Nanocrystals for Efficient Electrochemical Water Splitting. <i>Chemistry of Materials</i> , 2017 , 29, 5009-5015	6 68
359	Degradation-Restructuring Induced Anisotropic Epitaxial Growth for Fabrication of Asymmetric Diblock and Triblock Mesoporous Nanocomposites. 2017 , 29, 1701652	39

358	Self-Assembled Dendritic Pt Nanostructure with High-Index Facets as Highly Active and Durable Electrocatalyst for Oxygen Reduction. 2017 , 10, 3063-3068	17
357	Local structure and composition of PtRh nanoparticles produced through cathodic corrosion. 2017 , 19, 10301-10308	11
356	Preparation method of Ni@Pt/C nanocatalyst affects the performance of direct borohydride-hydrogen peroxide fuel cell: Improved power density and increased catalytic oxidation 9.3 of borohydride. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 264-275	27
355	Synthesis of Janus Au@periodic mesoporous organosilica (PMO) nanostructures with precisely controllable morphology: a seed-shape defined growth mechanism. <i>Nanoscale</i> , 2017 , 9, 4826-4834	36
354	Supercritical Flow Synthesis of Pt1\(\text{Rux Nanoparticles: Comparative Phase Diagram Study of Nanostructure versus Bulk. \(\text{Chemistry of Materials, } \text{2017}, 29, 3265-3273 \)	6
353	Facile Synthesis of Pd@Pt3IL CoreBhell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. 2017 , 9, 414-419	14
352	Kinetic study and growth behavior of template-based electrodeposited platinum nanotubes controlled by overpotential. 2017 , 187, 141-148	
351	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. 2017 , 129, 60-98	55
350	Superior Bifunctional Liquid Fuel Oxidation and Oxygen Reduction Electrocatalysis Enabled by PtNiPd Core-Shell Nanowires. 2017 , 29, 1603774	90
349	Seed-Mediated Growth of Colloidal Metal Nanocrystals. 2017 , 56, 60-95	428
349 348	Seed-Mediated Growth of Colloidal Metal Nanocrystals. 2017, 56, 60-95 Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017, 6, 115-127	428
348	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017 , 6, 115-127 Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium	34
348	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017 , 6, 115-127 Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium Electrocatalysts for the Formic Acid Oxidation Reaction. <i>ChemElectroChem</i> , 2017 , 4, 3126-3133	34
348 347 346	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017, 6, 115-127 Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium Electrocatalysts for the Formic Acid Oxidation Reaction. ChemElectroChem, 2017, 4, 3126-3133 4.3 Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. 2017, 9, 35133-35140	34
348 347 346 345	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017, 6, 115-127 Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium Electrocatalysts for the Formic Acid Oxidation Reaction. ChemElectroChem, 2017, 4, 3126-3133 4-3 Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. 2017, 9, 35133-35140 Nanostructured Catalysts in Vehicle Exhaust Control Systems. 2017, 1-22 Ammonia Mediated One-Step Synthesis of Three-Dimensional Porous PtxCu100 Nanochain	34 15 82
348347346345344	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017, 6, 115-127 Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium Electrocatalysts for the Formic Acid Oxidation Reaction. ChemElectroChem, 2017, 4, 3126-3133 Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. 2017, 9, 35133-35140 Nanostructured Catalysts in Vehicle Exhaust Control Systems. 2017, 1-22 Ammonia Mediated One-Step Synthesis of Three-Dimensional Porous PtxCu100\(\text{M} \) Nanochain Networks with Enhanced Electrocatalytic Activity toward Polyhydric Alcohol Oxidation. 2017, 5, 11086-11095 Controlled synthesis of sponge-like porous Au\(\text{M} \) alloy nanocubes for surface-enhanced Raman	34 15 82

340	Decoration of Carbon Nitride Surface with Bimetallic Nanoparticles (Ag/Pt, Ag/Pd, and Ag/Au) via Galvanic Exchange for Hydrogen Evolution Reaction. 2017 , 121, 19548-19558	47
339	Electrochemical Synthesis of Nanoporous Platinum Nanoparticles Using Laser Pulse Heating: Application to Methanol Oxidation. <i>ACS Catalysis</i> , 2017 , 7, 7388-7398	25
338	Uniformly dispersed platinum-cobalt alloy nanoparticles with stable compositions on carbon substrates for methanol oxidation reaction. 2017 , 7, 11421	20
337	Nitrogen-Doped Carbon Activated in Situ by Embedded Nickel through the Mott-Schottky Effect for the Oxygen Reduction Reaction. 2017 , 18, 3454-3461	33
336	Quantitative Analysis of Different Formation Modes of Platinum Nanocrystals Controlled by Ligand Chemistry. 2017 , 17, 6146-6150	43
335	Rhodium-on-Palladium Nanocatalysts for Selective Methanation of Carbon Dioxide. 2017 , 3, 639-645	9
334	Capillary electrophoresis and nanomaterials - Part I: Capillary electrophoresis of nanomaterials. 2017 , 38, 2389-2404	15
333	Decoration of Pd and Pt nanoparticles on a carbon nitride (C3N4) surface for nitro-compounds reduction and hydrogen evolution reaction. 2017 , 41, 9658-9667	24
332	Structural and Morphological Description of Sn/SnO Core-Shell Nanoparticles Synthesized and Isolated from Ionic Liquid. 2017 , 56, 10099-10106	5
331	Polymer-based hybrid catalyst of low Pt content for electrochemical hydrogen evolution. 2017 , 42, 22821-22	8 <i>29</i> 7
330	Dendritic Ternary Alloy Nanocrystals for Enhanced Electrocatalytic Oxidation Reactions. 2017, 9, 44018-4402	6 27
329	Tailoring the light absorption of Ag-PZT thin films by controlling the growth of hexagonal- and cubic-phase Ag nanoparticles. 2017 , 123, 1	1
328	Ternary PtPdAg alloy nanoflowers for oxygen reduction reaction electrocatalysis. 2017, 19, 6964-6971	18
327	Design of Ultrathin Pt-Based Multimetallic Nanostructures for Efficient Oxygen Reduction Electrocatalysis. 2017 , 13, 1702156	57
326	Platinum nanoparticles in nanobiomedicine. 2017 , 46, 4951-4975	216
325	First-Principles Calculation of Pt Surface Energies in an Electrochemical Environment: Thermodynamic Driving Forces for Surface Faceting and Nanoparticle Reconstruction. 2017 , 33, 7043-7052	22
324	PtPb/PtNi Intermetallic Core/Atomic Layer Shell Octahedra for Efficient Oxygen Reduction Electrocatalysis. 2017 , 139, 9576-9582	158
323	3D porous nanostructured platinum prepared using atomic layer deposition. 2017 , 5, 19007-19016	8

322	PtBe nanostructures with oxidase-like activity and their application in a selective colorimetric assay for mercury(II). 2017 , 52, 10738-10750	30
321	Nanomaterials and their Classification. 2017 , 3-45	21
320	EMR/ESR/EPR Spectroscopy for Characterization of Nanomaterials. 2017,	11
319	Depletion sphere: Explaining the number of Ag islands on Au nanoparticles. 2017 , 8, 430-436	33
318	A Simple and Highly Stable Porous Gold-based Electrochemical Sensor for Bisphenol A Detection. 2017 , 29, 472-480	14
317	Layer-controlled Pt-Ni porous nanobowls with enhanced electrocatalytic performance. <i>Nano Research</i> , 2017 , 10, 187-198	39
316	An acetic acid refluxing-electrochemistry combined strategy to activate supported-platinum electrocatalysts. 2017 , 30, 111-117	4
315	Effect of Co-catalyst on the Selective Electrooxidation of Glycerol over Ruthenium-based Nanomaterials. <i>ChemElectroChem</i> , 2017 , 4, 39-45	25
314	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. 2017 , 8, 795-799	64
313	Metal Nanoparticles and Their Toxicity. 2017 , 237-293	1
313	Metal Nanoparticles and Their Toxicity. 2017, 237-293 Metal Nanoparticles and Their Toxicity. 2017, 203-259	1
		20
312	Metal Nanoparticles and Their Toxicity. 2017 , 203-259	
312	Metal Nanoparticles and Their Toxicity. 2017, 203-259 . 2017, Hydrothermal growth of n-ZnO films on a patterned p-GaN epilayer and its application in	20
312 311 310	Metal Nanoparticles and Their Toxicity. 2017, 203-259 . 2017, Hydrothermal growth of n-ZnO films on a patterned p-GaN epilayer and its application in heterojunction light-emitting diodes. 2017, 56, 04CH03	20
312 311 310 309	Metal Nanoparticles and Their Toxicity. 2017, 203-259 . 2017, Hydrothermal growth of n-ZnO films on a patterned p-GaN epilayer and its application in heterojunction light-emitting diodes. 2017, 56, 04CH03 Fuel Cells: Hydrogen and Ethanol Technologies. 2017, Advanced Nanocomposites With Noble Metal Antimicrobial Nanoparticles: How to Design a	20 5 2
312 311 310 309 308	Metal Nanoparticles and Their Toxicity. 2017, 203-259 . 2017, Hydrothermal growth of n-ZnO films on a patterned p-GaN epilayer and its application in heterojunction light-emitting diodes. 2017, 56, 04CH03 Fuel Cells: Hydrogen and Ethanol Technologies. 2017, Advanced Nanocomposites With Noble Metal Antimicrobial Nanoparticles: How to Design a Balance Among Antimicrobial Activity, Bioactivity, and Safe Delivery to the Place of Infection. 2017, 623-651	20 5 2

304	Noble Metal Electrocatalysts for Anode and Cathode in Polymer Electrolyte Fuel Cells. 2018, 171-197		1
303	Enhanced Stability of Pt/M/WC(0001) Multilayer Alloys under Electrochemical Conditions: A First Principle Study. 2018 , 10, 15704-15711		3
302	Synthetic Routes to Shaped AuPt CoreBhell Particles with Smooth Surfaces Based on Design Rules for Au Nanoparticle Growth. 2018 , 35, 1700401		9
301	Hierarchical concave layered triangular PtCu alloy nanostructures: rational integration of dendritic nanostructures for efficient formic acid electrooxidation. <i>Nanoscale</i> , 2018 , 10, 9369-9375	7.7	22
300	Simultaneous formation of trimetallic Pt-Ni-Cu excavated rhombic dodecahedrons with enhanced catalytic performance for the methanol oxidation reaction. <i>Nano Research</i> , 2018 , 11, 4786-4795	10	39
299	Pt/C electrocatalysts based on the nanoparticles with the gradient structure. 2018 , 43, 3676-3687		28
298	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. 2018 , 10, 6055-6072		76
297	Rapid microwave synthesis and optical activity of highly crystalline platinum nanocubes. 2018 , 8, 71-78		8
296	Electrocatalytic N-Doped Graphitic Nanofiber - Metal/Metal Oxide Nanoparticle Composites. 2018 , 14, e1703459		42
295	Electrochemical processes on solid shaped nanoparticles with defined facets. 2018 , 47, 715-735		100
295 294	Electrochemical processes on solid shaped nanoparticles with defined facets. 2018 , 47, 715-735 High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018 , 4, 647-653		100
	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized		
294	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018 , 4, 647-653 Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the		29
294	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018 , 4, 647-653 Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the Colorimetric Detection of Glutathione from Human Blood Serum. 2018 , 6, 7662-7675 N-doped graphitic carbon materials hybridized with transition metals (compounds) for hydrogen		29 40
294 293 292	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018, 4, 647-653 Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the Colorimetric Detection of Glutathione from Human Blood Serum. 2018, 6, 7662-7675 N-doped graphitic carbon materials hybridized with transition metals (compounds) for hydrogen evolution reaction: Understanding the synergistic effect from atomistic level. 2018, 133, 260-266		29 40 75
294 293 292 291	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018, 4, 647-653 Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the Colorimetric Detection of Glutathione from Human Blood Serum. 2018, 6, 7662-7675 N-doped graphitic carbon materials hybridized with transition metals (compounds) for hydrogen evolution reaction: Understanding the synergistic effect from atomistic level. 2018, 133, 260-266 Catalyst design by scanning probe block copolymer lithography. 2018, 115, 3764-3769 Biomimetic synthesis of platinum nanoparticles utilizing a terrestrial weed Antigonon leptopus.		29 40 75 28
294 293 292 291 290	High Antifungal Activity against Species of Monometallic and Bimetallic Nanoparticles Synthesized in Nanoreactors. 2018, 4, 647-653 Size-Dependent Synthesis of Gold Nanoparticles and Their Peroxidase-Like Activity for the Colorimetric Detection of Glutathione from Human Blood Serum. 2018, 6, 7662-7675 N-doped graphitic carbon materials hybridized with transition metals (compounds) for hydrogen evolution reaction: Understanding the synergistic effect from atomistic level. 2018, 133, 260-266 Catalyst design by scanning probe block copolymer lithography. 2018, 115, 3764-3769 Biomimetic synthesis of platinum nanoparticles utilizing a terrestrial weed Antigonon leptopus. 2018, 36, 681-688 Aqueous-phase synthesis of metal hydroxide nanoplates and platinum/nickel hydroxide hybrid		29 40 75 28

286	Atomic Vacancies Control of Pd-Based Catalysts for Enhanced Electrochemical Performance. 2018 , 30, 1704171	74
285	Oxygen Reduction Catalysts on Nanoparticle Electrodes. 2018 , 796-811	2
284	Synthesis of PtCu/E-lectrocatalysts with Different Structures and Study of Their Functional Characteristics. 2018 , 54, 1209-1221	2
283	Roles played by polysaccharides with different structures in biomimetic synthesis of cuprous oxide. 2018 , 20, 6243-6251	
282	Iodide-mediated templating synthesis of highly porous rhodium nanospheres for enhanced dehydrogenation of ammonia borane. 2018 , 6, 24166-24174	18
281	Quantitative analysis of the reduction kinetics of a Pt(II) precursor in the context of Pt nanocrystal synthesis 2018 , 31, 370-374	8
2 80	3. Size and Shape Controlled Synthesis of Pd Nanocrystals. 2018 , 155-198	
279	4. Size and shape-controlled synthesis of Ru nanocrystals. 2018 , 199-278	
278	Biogenic synthesis of biopolymer-based Ag-Au bimetallic nanoparticle constructs and their anti-proliferative assessment. 2018 , 12, 1047-1055	7
277	Dendritic Pt shells coated on concave Pd nanocrystals: synthesis and use as electrocatalysts for acidic oxygen reduction reaction. 2018 , 43, 22195-22204	2
276	Calcination Atmosphere Regulated Morphology and Catalytic Performance of Pt/SiO2 in Gas-phase Oxidative Dehydrogenation of KA-oil. 2018 , 10, 5689-5697	3
275	Chalcogenide Electrocatalysts for Energy Conversion Fuel Cell. 2018, 419-445	3
274	The Enhanced Electro-catalytic Performance of Au@Pd Nanoparticles Self-assembled on Fluorine-Modified Multi-walled Carbon Nanotubes for Methanol Oxidation. 2018 , 148, 3281-3291	4
273	Facile synthesis of PtAg octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. 2018 , 33, 3891-3897	1
272	Alkali Metal Cation Effects in Structuring Pt, Rh, and Au Surfaces through Cathodic Corrosion. 2018 , 10, 39363-39379	24
271	Au Nanowires@Pd-Polyethylenimine Nanohybrids as Highly Active and Methanol-Tolerant Electrocatalysts toward Oxygen Reduction Reaction in Alkaline Media. <i>ACS Catalysis</i> , 2018 , 8, 11287-112951	85
270	Size and shape-controlled synthesis of Ru nanocrystals. 2018, 3,	
269	One-Pot Seedless Aqueous Design of Metal Nanostructures for Energy Electrocatalytic Applications. 2018 , 1, 531-547	7

(2018-2018)

268	Synthesis of Pt nanocrystals with different shapes using the same protocol to optimize their catalytic activity toward oxygen reduction. 2018 , 21, 834-844		44
267	Ligand-mediated bifunctional catalysis for enhanced oxygen reduction and methanol oxidation tolerance in fuel cells. 2018 , 6, 18884-18890		16
266	Preparation optimization and single cell application of PtNi/C octahedral catalyst with enhanced ORR performance. 2018 , 288, 126-133		16
265	Janus nanoarchitectures: From structural design to catalytic applications. <i>Nano Today</i> , 2018 , 22, 62-82	17.9	93
264	3. Shape-controlled metal nanoparticles for electrocatalytic applications. 2018 , 103-156		1
263	Post-treatment of Pt-M (M = Cu, Co, Ni)/C Electrocatalysts with Different Distribution of Metals in Nanoparticles: Evolution of Structure and Activity. 2018 , 65-77		1
262	119Sn MBsbauer spectroscopy of the time-resolved evolution of SnCl3Iligand structure on the surface of growing platinum nanoparticles. <i>Applied Surface Science</i> , 2018 , 448, 362-368	6.7	3
261	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. <i>ACS Catalysis</i> , 2018 , 8, 6948-6960	13.1	45
260	On the nexus between atom probe microscopy and density functional theory simulations. 2018 , 146, 347-358		15
259	Preparation of an octahedral PtNi/CNT catalyst and its application in high durability PEMFC cathodes 2018 , 8, 18381-18387		24
258	Synthesis of zero-valent iron nanoparticles via laser ablation in a formate ionic liquid under atmospheric conditions. 2018 , 54, 7834-7837		13
257	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. 2018, 459-541		
256	Solution-Grown Dendritic Pt-Based Ternary Nanostructures for Enhanced Oxygen Reduction Reaction Functionality. 2018 , 8,		9
255	Size and Shape Controlled Synthesis of Pd Nanocrystals. 2018 , 3,		1
254	Platinum nanoworms for imaging-guided combined cancer therapy in the second near-infrared window. 2018 , 6, 5069-5079		23
253	Influence of PtBn System Nanostructure on the Electronic Conditions at a Pt Adsorption Surface Site. 2018 , 122, 11371-11377		4
252	Electrocatalysis. 2018 , 315-359		
251	Seedless, one-step synthesis of porous Pt-Pd nanoflowers for electroreduction of oxygen in acidic medium. <i>Applied Surface Science</i> , 2018 , 458, 910-916	6.7	11

250 Development of Nanoparticle Composite Technique for Low Pt-Loading PEFCs. **2018**, 543-546

249	Stability of nanostructured silver-platinum alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 934-941	5.7	8
248	Shape-controlled metal nanoparticles for electrocatalytic applications. 2019, 4,		13
247	Salt-Templated Platinum-Copper Porous Macrobeams for Ethanol Oxidation. <i>Catalysts</i> , 2019 , 9, 662	4	2
246	Simple chemistry drives controlled synthesis of platinum nanocrystal to micron size. 2019 , 9, 197-202		3
245	Facilitating the CI bond cleavage on sub-10 nm concavity-tunable Rh@Pt coreIhell nanocubes for efficient ethanol electrooxidation. 2019 , 7, 17987-17994		19
244	Fine Control over the Compositional Structure of Trimetallic Core-Shell Nanocrystals for Enhanced Electrocatalysis. 2019 , 11, 25901-25908		10
243	The effects of size and shape on the structural and thermal stability of platinum nanoparticles. 2019 , 169, 109090		6
242	Self-Selective Catalyst Synthesis for CO2 Reduction. 2019 , 3, 1927-1936		35
241	In Situ Formed PtTi Nanoparticles on a Two-Dimensional Transition Metal Carbide (MXene) Used as Efficient Catalysts for Hydrogen Evolution Reactions. 2019 , 19, 5102-5108		69
240	Composition, Structure and Stability of PtCu/C Electrocatalysts with Non-uniform Distribution of Metals in Nanoparticles. 2019 , 31-46		
239	In Situ Transmission Electron Microscopy Study of Nanocrystal Formation for Electrocatalysis. 2019 , 5, 1439-1455		7
238	Composites of Platinum-Iridium Alloy Nanoparticles and Graphene Oxide for the Dimethyl Amine Borane (DMAB) dehydrogenation at ambient conditions: An Experimental and Density Functional Theory Study. 2019 , 9, 15543		6
237	. 2019,		О
236	Improvement of Catalytic Activity of Platinum Nanoparticles Decorated Carbon Graphene Composite on Oxygen Electroreduction for Fuel Cells. 2019 , 7, 586		11
235	General Solvothermal Synthesis Method for Complete Solubility Range Bimetallic and High-Entropy Alloy Nanocatalysts. 2019 , 29, 1905933		57
234	Recent Advances in the Synthesis, Properties, and Biological Applications of Platinum Nanoclusters. 2019 , 2019, 1-31		9
233	Altering polythiophene derivative substrates to control the electrodeposition morphology of Au particles toward ultrafine nanoparticles. 2019 , 55, 12088-12091		2

232	Electrocatalysis of Oxygen Reduction Reaction on Shape-Controlled Pt and Pd Nanoparticles-Importance of Surface Cleanliness and Reconstruction. 2019 , 7, 648	17
231	NiS2/MoS2 on carbon cloth as a bifunctional electrocatalyst for overall water splitting. 2019 , 326, 134983	26
230	NH-MIL-125(Ti)-derived porous cages of titanium oxides to support Pt-Co alloys for chemoselective hydrogenation reactions. 2019 , 10, 2111-2117	24
229	Rational design and construction of nanoporous iron- and nitrogen-doped carbon electrocatalysts for oxygen reduction reaction. 2019 , 7, 1380-1393	111
228	Improved control on the morphology and LSPR properties of plasmonic Pt NPs through enhanced solid state dewetting by using a sacrificial indium layer 2019 , 9, 2231-2243	3
227	Pt-Based electrocatalysts with high atom utilization efficiency: from nanostructures to single atoms. 2019 , 12, 492-517	275
226	Ternary Heterostructural Pt/CN/Ni as a Supercatalyst for Oxygen Reduction. 2019, 11, 388-397	22
225	Metal-doped carbon nanoparticles with intrinsic peroxidase-like activity for colorimetric detection of HO and glucose. 2019 , 7, 296-304	42
224	Highly efficient hydrogen evolution of platinum via tuning the interfacial dissolved-gas concentration. 2019 , 55, 1378-1381	18
223	Nanomaterials Properties of Environmental Interest and How to Assess Them. 2019 , 45-105	2
222	The role of polyvinylpyrrolidone (PVP) as a capping and structure-directing agent in the formation of Pt nanocubes. 2019 , 1, 3095-3106	83
221	Exploring the synthesis conditions to control the morphology of gold-iron oxide heterostructures. Nano Research, 2019, 12, 1781-1788	11
220	Fabrication of monodisperse ITO submicro-spheres using l-Histidine-assisted one-step solvothermal method. 2019 , 45, 17562-17566	5
219	ZnO and ZnO/CaO nanoparticles in alginate films. Synthesis, mechanical characterization, barrier properties and release kinetics. 2019 , 112, 108217	23
218	Preparation of Pt-skin PtRhNi Nanoframes Decorated with Small SnO Nanoparticles as an Efficient Catalyst for Ethanol Oxidation Reaction. 2019 , 11, 22352-22363	11
217	Tweaking the Interplay among Galvanic Exchange, Oxidative Etching, and Seed-Mediated Deposition toward Architectural Control of Multimetallic Nanoelectrocatalysts. 2019 , 11, 23482-23494	5
216	Composition- and shape-controlled synthesis of the PtNi alloy nanotubes with enhanced activity and durability toward oxygen reduction reaction. 2019 , 429, 1-8	11
215	A Non-Pt Electronically Coupled Semiconductor Heterojunction for Enhanced Oxygen Reduction Electrocatalytic Property. 2019 , 4, 5264-5268	2

214	Pd@Pt CoreBhell Nanodots Arrays for Efficient Electrocatalytic Oxygen Reduction. 2019 , 2, 3695-3700	6
213	Effect of the Pt Precursor and Loading on the Structural Parameters and Catalytic Properties of Pt/Al2O3. 2019 , 11, 3064-3074	10
212	The experimental and theoretical insights towards the CO induced Pd-Graphene and their multifunctional energy conversion applications. 2019 , 149, 307-317	6
211	Orientation control for a-axis or c-axis oriented crystal films of hydroxyapatite, and a possible growth mechanism derived from X-ray diffraction. <i>Applied Surface Science</i> , 2019 , 484, 433-440	5
210	Metal Particle Size Effects on the Photocatalytic Hydrogen Ion Reduction. ACS Catalysis, 2019, 9, 3946-3958	25
209	Ethanol-Mediated Phase Transfer of Metal Ions and Nanoparticles. 2019 , 35-67	
208	An Introduction to Noble Metal-Based Composite Nanomaterials. 2019 , 1-33	1
207	Nanocomposites Consisting of Chalcogenide Semiconductors and Other Noble Metals. 2019 , 149-192	1
206	Gas-Phase Synthesis of Trimetallic Nanoparticles. <i>Chemistry of Materials</i> , 2019 , 31, 2151-2163 9.6	44
205	Fabrication of bilayer Pd-Pt nanocages with sub-nanometer thin shells for enhanced hydrogen evolution reaction. <i>Nano Research</i> , 2019 , 12, 2268-2274	23
204	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. 2019 , 119, 8972-9073	148
203	Facile Synthesis of Sea-Urchin-Like Pt and Pt/Au Nanodendrites and Their Enhanced Electrocatalytic Properties. 2019 , 58, 5375-5379	6
202	Asymmetric Multimetallic Mesoporous Nanospheres. 2019 , 19, 3379-3385	43
201	A novel route for the generation of Co/CoZn/CoNi layered double hydroxides at ambient temperature. 2019 , 6, 1415-1421	11
200	Nanocomposites Consisting of Silver Sulfide and Noble Metals. 2019 , 193-216	
199	Pt-Containing Ag2SNoble Metal Nanocomposites for Direct Methanol Fuel Cells Operated at High Fuel Concentrations. 2019 , 277-299	
198	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Size-Dependent Activity toward Oxygen Reduction. 2019 , 11, 2458-2463	9
197	Nanomaterials With Different Dimensions for Electrocatalysis. 2019 , 435-464	5

196	Synthesis of CuBiO2 CoreBhell Using Ultrasonic Waves and Its Antibacterial Activity. 2019, 45, 518-524	3
195	PtFe Alloy Nanoparticles Confined on Carbon Nanotube Networks as Air Cathodes for Flexible and Wearable Energy Devices. 2019 , 2, 7870-7879	14
194	Pt3MeAu (Me = Ni, Cu) Fuel Cell Nanocatalyst Growth, Shapes, and Efficiency: A Molecular Dynamics Simulation Approach. 2019 , 123, 29656-29664	3
193	Galvanic replacement mediated 3D porous PtCu nano-frames for enhanced ethylene glycol oxidation. 2019 , 55, 14526-14529	10
192	Multicomponent Plasmonic Nanoparticles: From Heterostructured Nanoparticles to Colloidal Composite Nanostructures. 2019 , 119, 12208-12278	153
191	Optical and Thermal Properties of Laser-Ablated Platinum Nanoparticles Graphene Oxide Composite. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	8
190	Nanoscale Structure Design for High-Performance Pt-Based ORR Catalysts. 2019 , 31, e1802234	286
189	Formation of the core-shell structures from bimetallic Janus-like nanoclusters under low-energy Ar and Ar13 impacts: A molecular dynamics study. 2019 , 159, 110-119	2
188	Surface Atomic Regulation of Core-Shell Noble Metal Catalysts. 2019 , 25, 5113-5127	14
187	Salt-templated platinumpalladium porous macrobeam synthesis. 2019 , 9, 280-287	3
186	Tuning saw-toothed morphology on Pd/Pt nanocubes as oxygen reduction catalysts by co-surfactant synthesis method. <i>Applied Surface Science</i> , 2019 , 467-468, 844-850	9
185	Pt nanoparticles supported on non-carbon titanium chromium nitride nanotubes with high activity and durability for methanol oxidation reaction. 2019 , 23, 315-324	8
184	Plasmonic-Enhanced Oxygen Reduction Reaction of Silver/Graphene Electrocatalysts. 2019 , 19, 1371-1378	49
183	Introduction. 2019 , 1-36	1
182	Cu-Pd alloy nanoparticles as highly selective catalysts for efficient electrochemical reduction of CO2 to CO. 2019 , 246, 82-88	102
181	A Simple and Fast Method to Synthesize Cubic Iridium Nanoparticles with Clean Surface Free from Surfactants. 2019 , 9,	10
180	Self-assembled Pt screen printed electrodes with a novel peroxidase Panicum maximum and zinc oxide nanoparticles for H2O2 detection. 2019 , 561, 18-24	12
179	Graphene-Based Metal Particles. 2019 , 153-202	2

178	Platinum as an electrocatalyst: effect of morphological aspects of Pt/Pt-based materials. 2019, 35, 1-11		17
177	Facile Fabrication of Graphene-Supported Pt Electrochemical Sensor for Determination of Caffeine. 2020 , 190, 529-539		8
176	Support interaction of Pt/CeO2 and Pt/SiC catalysts prepared by nano platinum colloid deposition for CO oxidation. 2020 , 38, 376-383		18
175	Au Plasmonic Shofar Structures. 2020 , 15, 201-208		
174	Lowering Interfacial Dissolved Gas Concentration for Highly Efficient Hydrazine Oxidation at Platinum by Fluorosurfactant Modulation. <i>ChemElectroChem</i> , 2020 , 7, 55-58	3	3
173	Well-Defined Nanoparticle Electrocatalysts for the Refinement of Theory. 2020 , 120, 814-850		47
172	Single-atom catalysts for electrochemical clean energy conversion: recent progress and perspectives. 2020 , 4, 996-1011		22
171	Synthesis of anisotropic Au L u alloy nanostructures and its application in SERS for detection of methylene blue. 2020 , 7, 015052		6
170	Design of bimetallic catalysts and electrocatalysts through the control of reactive environments. Nano Today, 2020 , 31, 100832	7.9	19
169	Plasmonic hybrid platinum-titania nanocomposites as highly active photocatalysts: self-cleaning of cotton fiber under solar light. 2020 , 9, 1447-1456		16
168	Hollow AuAg Alloy Nanourchins: Twin Plane and Surface Treatment for Enhanced Methanol Electrooxidation Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 723-732	1	10
167	Porous Strained Pt Nanostructured Thin-Film Electrocatalysts via Dealloying for PEM Fuel Cells. 2020 , 7, 1901326		14
166	Facile synthesis of Nafion-supported Pt nanoparticles with ultra-low loading as a high-performance electrocatalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2020 , 566, 505-51	<u>3</u>	7
165	Improved Hydrogen Sensing Performance of AlGaN/GaN Based Gas Sensors with Controlled Surface Nanostructures of Platinum Nanoparticulate Films. 2020 , 20, 2503-2507		1
164	Preserving the shape of silver nanocubes under corrosive environment by covering their edges and corners with iridium. <i>Nanoscale</i> , 2020 , 12, 20859-20867	7	1
163	Low temperature electrochemical production of hydrogen: Challenge in anode and cathode materials. 2020 , 135-169		
162	Nickel platinum (NixPt1☑) nanoalloy monodisperse particles without the core⊡hell structure by colloidal synthesis. 2020 , 2, 3882-3889		2
161	Direct photocatalytic synthesis of N2/H2O to ammonia by plasmonic metal Pt supported on coal based graphene oxide/silica dioxide. 2020 , 130, 1155-1170		2

(2020-2020)

160	Polyaniline/Platinum Composite Cathode Catalysts Towards Durable Polymer Electrolyte Membrane Fuel Cells. 2020 , 9, 1109-1112	1
159	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: effects of pH and organic ligands. 2020 , 22, 1	2
158	An Le-melting kinetic control strategy for highly photocatalytic organic nanocrystals. 2020, 8, 25275-25282	2
157	Plasmonic Metallic Heteromeric Nanostructures. 2020 , 16, e2002588	18
156	From platinum atoms in molecules to colloidal nanoparticles: A review on reduction, nucleation and growth mechanisms. 2020 , 286, 102300	29
155	Size-dependent electronic, mechanical and optical properties of noble metal nanoribbons. 2020 , 262, 114786	1
154	Continuous Tuning of Aulu2O Janus Nanostructures for Efficient Charge Separation. 2020, 132, 22430-22435	5 4
153	Metal Nanoparticles-Enhanced Biosensors: Synthesis, Design and Applications in Fluorescence Enhancement and Surface-enhanced Raman Scattering. 2020 , 15, 3180-3208	37
152	Applications of Metal Nanocrystals with Twin Defects in Electrocatalysis. 2020, 15, 3254-3265	9
151	Continuous Tuning of Au-Cu O Janus Nanostructures for Efficient Charge Separation. 2020 , 59, 22246-22251	30
150	The impact of synthetic method on the catalytic application of intermetallic nanoparticles. Nanoscale, 2020 , 12, 18545-18562 7:7	7
149	Oxygen Transport Routes in Ionomer Film on Polyhedral Platinum Nanoparticles. 2020 ,	6
148	Precursor-templated synthesis of thermodynamically unfavored platinum nanoplates for the oxygen reduction reaction. 2020 , 49, 15837-15842	1
147	High-Index CoreBhell NiPt Nanoparticles as Oxygen Reduction Electrocatalysts. 2020, 3, 5718-5731	11
146	Boosting Oxygen and Peroxide Reduction Reactions on PdCu Intermetallic Cubes. ChemElectroChem, 2020, 7, 2614-2620 4-3	4
145	Stable and Efficient PtRu Electrocatalysts Supported on Zn-BTC MOF Derived Microporous Carbon for Formic Acid Fuel Cells Application. 2020 , 8, 367	7
144	In Situ Exsolved Metal Nanoparticles: A Smart Approach for Optimization of Catalysts. <i>Chemistry of Materials</i> , 2020 , 32, 5424-5441	40
143	Efficient and Facile Synthesis of High-Quality Au Nanotwins. 2020 , 94, 231-232	2

142	Synergistic enhancement effect of MoO@Ag hybrid nanostructures for boosting selective detection sensitivity. 2020 , 241, 118611	5
141	Formation of microns long thin wire networks with a controlled spatial distribution of elements. 2020 , 10, 2020-2028	3
140	A CTAB-mediated antisolvent vapor route to shale-like CsPbBr microplates showing an eminent photoluminescence 2020 , 10, 10023-10029	2
139	Rapid Laser Pulse Synthesis of Supported Metal Nanoclusters with Kinetically Tunable Size and Surface Density for Electrocatalytic Hydrogen Evolution. 2020 , 3, 2959-2968	5
138	Energy-dispersive X-ray spectroscopy for an atomic-scale quantitative analysis of Pd-Pt core-shell nanoparticles. 2020 , 69, 26-30	1
137	Preparation of Nonprecious Metal Electrocatalysts for the Reduction of Oxygen Using a Low-Temperature Sacrificial Metal. 2020 , 142, 5477-5481	62
136	Engine-Trailer-Structured Nanotrucks for Efficient Nano-Bio Interactions and Bioimaging-Guided Drug Delivery. 2020 , 6, 1097-1112	33
135	Dewetted Pt nanostructures on Silicon Carbide surface. 2020 , 140, 109403	2
134	Review of supported metal nanoparticles: synthesis methodologies, advantages and application as catalysts. 2020 , 55, 6195-6241	99
133	Preparation of a Graphitized-Carbon-Supported PtNi Octahedral Catalyst and Application in a Proton-Exchange Membrane Fuel Cell. 2020 , 12, 7047-7056	10
132	Molecular Patching Engineering to Drive Energy Conversion as Efficient and Environment-Friendly Cell toward Wireless Power Transmission. 2020 , 30, 1908299	125
131	Synergistic Effect of Plasma and Laser Processes in Liquid for Alloyed-Nanoparticle Synthesis. 2020 , 13,	6
130	Highly efficient, cell reversal resistant PEMFC based on PtNi/C octahedral and OER composite catalyst. 2020 , 45, 8930-8940	14
129	Nonplatinum-based anode catalyst systems for direct methanol fuel cells. 2020 , 201-256	O
128	Morphological control of carbon-supported Pt-based nanoparticles via one-step synthesis. 2020 , 22, 100443	2
127	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. 2020 , 11, 2016	61
126	Fundamental Electrochemical Insights of Vertically Aligned Carbon Nanofiber Architecture as a Catalyst Support for ORR. 2020 , 167, 066523	8
125	Atomistic Explanation of the Dramatically Improved Oxygen Reduction Reaction of Jagged Platinum Nanowires, 50 Times Better than Pt. 2020 , 142, 8625-8632	32

(2021-2021)

124	Toward expanding the realm of high entropy materials to platinum group metals: A review. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156838	24
123	Comparison of the performance and durability of PEM fuel cells with different Pt-activated microporous layers. 2021 , 46, 18093-18106	1
122	Tuning the surface using palladium based metallosurfactant for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2021 , 582, 894-905 9-3	3
121	A mild approach to bimetallic ZIF-derived porous carbons as highly efficient oxygen reduction electrocatalysts. 2021 , 46, 6188-6196	2
120	Synthesis of PDA-Mediated Magnetic Bimetallic Nanozyme and Its Application in Immunochromatographic Assay. 2021 , 13, 1413-1423	16
119	Ultra-small hollow ternary alloy nanoparticles for efficient hydrogen evolution reaction. 2021 , 8, nwaa204	5
118	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. 2021 , 121, 736-795	92
117	Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis.	1
116	PdAgPt Corner-Satellite Nanocrystals in Well-Controlled Morphologies and the Structure-Related Electrocatalytic Properties. 2021 , 11,	1
115	Electrochemical reduction of CO2 using shape-controlled nanoparticles. 2021 , 155-181	
115	Electrochemical reduction of CO2 using shape-controlled nanoparticles. 2021, 155-181 Geometric and electronic properties of AuPt (+ 🗓 0) clusters: a first-principles study. 2021, 23, 3050-3062	
Ĭ		13
114	Geometric and electronic properties of AuPt (+ 🖺 0) clusters: a first-principles study. 2021 , 23, 3050-3062 Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. 2020 ,	13
114	Geometric and electronic properties of AuPt (+ 🗓 0) clusters: a first-principles study. 2021, 23, 3050-3062 Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. 2020, 12, 517-532	13
114 113 112	Geometric and electronic properties of AuPt (+ 🗓 0) clusters: a first-principles study. 2021, 23, 3050-3062 Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. 2020, 12, 517-532 Highly Toxic Nanomaterials for Cancer Treatment. 2021, 161-185 Ultrafast Synthesis of Wavy Gold-Silver Alloy Nanowires with Tunable Diameters in the Range of	
114 113 112	Geometric and electronic properties of AuPt (+ 🗓 0) clusters: a first-principles study. 2021, 23, 3050-3062 Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. 2020, 12, 517-532 Highly Toxic Nanomaterials for Cancer Treatment. 2021, 161-185 Ultrafast Synthesis of Wavy Gold-Silver Alloy Nanowires with Tunable Diameters in the Range of 2-10 nm via a Seed-Mediated Co-Reduction. 2021, 2021, 1152-1159	2
114 113 112 111 110	Geometric and electronic properties of AuPt (+ 🖺 0) clusters: a first-principles study. 2021, 23, 3050-3062 Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. 2020, 12, 517-532 Highly Toxic Nanomaterials for Cancer Treatment. 2021, 161-185 Ultrafast Synthesis of Wavy Gold-Silver Alloy Nanowires with Tunable Diameters in the Range of 2-10 nm via a Seed-Mediated Co-Reduction. 2021, 2021, 1152-1159 Electrocatalysts in Polymer Electrolyte Membrane Fuel Cells. 2021, 571-592	2

106	Phase-Controlled Synthesis of Pd-Se Nanocrystals for Phase-Dependent Oxygen Reduction Catalysis. 2021 , 21, 3805-3812	11
105	Initial nucleation process in the synthesis of Platinum Nanoparticle from chloroplatinic acid. <i>Nano Today</i> , 2021 , 37, 101093	3
104	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures. 2021 , 33, e2006966	15
103	Core-shell Ag P t nanoparticles: A versatile platform for the synthesis of heterogeneous nanostructures towards catalyzing electrochemical reactions. 2021 , 32, 3288-3288	3
102	Anisotropic polymer-mesoporous silica hybrid particles with tailorable morphology. 2021 , 617, 126379	1
101	Improving the Purity and Uniformity of Pd and Pt Nanocrystals by Decoupling Growth from Nucleation in a Flow Reactor. <i>Chemistry of Materials</i> , 2021 , 33, 3791-3801	3
100	Characterization and Electrocatalytic Features of PtPd and PdPt Bimetallic Nanoparticles for Methanol Electro-oxidation. 2021 , 7, 958-965	2
99	A review of energy and environment electrocatalysis based on high-index faceted nanocrystals. 2021 , 40, 3406-3441	15
98	Surface Engineering and Controlled Ripening for Seed-Mediated Growth of Au Islands on Au Nanocrystals. 2021 , 60, 16958-16964	12
97	Flow field-flow fractionation hyphenated with inductively coupled plasma mass spectrometry: a robust technique for characterization of engineered elemental metal nanoparticles in the environment. 1-22	3
96	Engineering the Spatial Arrangement of Aul 60 Heterostructures. <i>Chemistry of Materials</i> , 2021 , 33, 5268-587	5 1
95	Microwave Synthetic Routes for Shape-Controlled Catalyst Nanoparticles and Nanocomposites. 2021 , 26,	5
94	Surface Engineering and Controlled Ripening for Seed-Mediated Growth of Au Islands on Au Nanocrystals. 2021 , 133, 17095-17101	0
93	In Situ Growth of Pt-Co Nanocrystals on Different Types of Carbon Supports and Their Electrochemical Performance toward Oxygen Reduction. 2021 ,	1
92	Bimetallic Nanocrystals: Structure, Controllable Synthesis and Applications in Catalysis, Energy and Sensing. 2021 , 11,	10
91	Seed-Mediated Synthesis and Catalytic ORR Reactivity of Facet-Stable, Monodisperse Platinum Nano-Octahedra. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9542-9552	6
90	Fabrication and characterization of La-added MgFe2O4 as catalyst support for CO oxidation. 2021 , 47, 32786-32786	
89	Formic acid electrooxidation on small, {1 0 0} structured, and Pd decorated carbon-supported Pt nanoparticles. 2021 , 400, 140-147	2

88	Proton selective anode nanochannel for efficient methanol utilization. <i>Nano Today</i> , 2021 , 39, 101213	17.9	12
87	Recent developments in Ptto catalysts for proton-exchange membrane fuel cells. 2021 , 28, 100715		4
86	Gold Nanorods: The Most Versatile Plasmonic Nanoparticles. 2021 , 121, 13342-13453		42
85	High Activity of Platinum-Cobalt Supported by Natto-like N-Doped Carbon Sphere as Durable Catalyst for Oxygen Reduction Reaction. 2021 , 35, 15074-15083		1
84	Boosting the activity of non-platinum group metal electrocatalyst for the reduction of oxygen via dual-ligated atomically dispersed precursors immobilized on carbon supports. 2021 , 106547		2
83	Facile synthesis of Pt5La nanoalloys as the enhanced eletrocatalysts for oxygen reduction reaction and methanol oxidation reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 161892	5.7	2
82	Electrodeposited PtNi nanoparticles towards oxygen reduction reaction: A study on nucleation and growth mechanism. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2068-2077	11.3	2
81	Critical Raw Materials in Polymer Electrolyte Fuel Cells. 2021 , 35-56		O
80	Proton selective adsorption on PtNi nano-thorn array electrodes for superior hydrogen evolution activity. 2021 , 14, 1594-1601		17
79	CHAPTER 9:Hydrides. 2021 , 219-248		O
78	Enriching the branching of Au@PdAu coreBhell nanocrystals using a syringe pump: kinetics control meets lattice mismatch. 2021 , 23, 2582-2589		1
77	Fabrication of electro-catalytic nano-particles and applications to proton exchange membrane fuel cells. 2015 , 95-129		2
76	Development of Facile Preparation Methods for Precisely Structure-controlled Pt Nanocrystals and Their Application as Olefin Hydrogenation Model Catalysts. 2013 , 56, 214-220		1
75	Fabrication of Mn-N-C Catalyst for Oxygen Reduction Reactions Using Mn-Embedded Carbon Nanofiber. 2020 , 13, 2561		3
74	Pt Nano-Layer Formation by Redox Replacement of Cu Adlayer on Au(111) Surface. 2009 , 30, 2875-2876	1	11
73	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. 2014 , 6, 252		1
72	Interfacial Assembly and Applications of Functional Mesoporous Materials. 2021 , 121, 14349-14429		24
71	Wire arc additive manufacturing: A brief review on advancements in addressing industrial challenges incurred with processing metallic alloys. 2021 ,		1

70	Recent Development of Pt-Based Core-Shell Structured Electrocatalysts in Fuel Cells. <i>Chinese Journal of Catalysis</i> , 2013 , 33, 222-229	11.3	
69	Preparation of Metallic Nanoparticles. <i>Manufacturing Technology</i> , 2013 , 13, 358-361	0.7	O
68	Nanocomposite-Related Scientific Issues. 2015 , 199-255		
67	Chemical Synthesis of Nanoscale Heterogeneous Catalysts. 9-29		
66	HYBRID NANOSTRUCTURES WITH QUANTUM DOTS A2B6 AND METAL NANOPARTICLES (REVIEW). Optolektronika I Poluprovodnikova Tehnika, 2016 , 51, 7-30		
65	Nanostructured Catalysts in Vehicle Exhaust Control Systems. 2019 , 1679-1700		1
64	Catalyst Enhanced by Controlling Structure and Shape of Nanocrystals, Support Materials, and Hybrid System in DMFCs. <i>Ceramist</i> , 2019 , 22, 189-197	0.3	
63	One-step synthesis of Pt/a-CoO core/shell nanocomposites. <i>Applied Microscopy</i> , 2019 , 49, 12	1.1	
62	Construction of Concave PdAg Nanoshells with Limited Thickness for Efficient Electroxidation of Ethanol. <i>Frontiers in Materials</i> , 2021 , 8,	4	
61	Denatured proteins as a novel template for the synthesis of well-defined, ultra-stable and water-soluble metal nanostructures for catalytic applications. <i>Journal of Leather Science and Engineering</i> , 2020 , 2,	3.6	1
60	The Electrocatalysis of Oxygen Reduction on Platinum and Its Alloys. <i>Energy and Environment Research in China</i> , 2021 , 25-61	0.3	
59	Solid-State Preparation of Metal and Metal Oxides Nanostructures and Their Application in Environmental Remediation <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
58	Engineering surface strain for site-selective island growth of Au on anisotropic Au nanostructures. <i>Nano Research</i> , 1	10	
57	Ultra Weak Chemiluminescence Enhanced by Noble Metal Nanoparticle. 2022 , 143-171		
56	Nis/Mos2 Complex Grown on Carbon Paper as Bifunctional Electrocatalyst for Full Water Splitting. SSRN Electronic Journal,	1	
55	The Nexus between ASAT and Density Functional Theory. 2022 , 201-221		
54	Remarkable Activity of 002 Facet of Ruthenium Nanoparticles Grown on Graphene Films on the Photocatalytic CO 2 Methanation. <i>Advanced Sustainable Systems</i> , 2100487	5.9	3
53	Controllable Surfactant-free Synthesis of Colloidal Platinum Nanocuboids Enabled by Bromide Ions and Carbon Monoxide. <i>ChemElectroChem</i> ,	4.3	

52	Influence of polyvinylpyrrolidone as stabilizing agent on Pt nanoparticles in Pt/H-BEA catalyzed hydroconversion of n-hexadecane. <i>Fuel</i> , 2022 , 317, 123506	7.1	
51	Layered Pt-Co alloys: Bulk, surface and nanoparticle analysis, based on DFT. <i>Surface Science</i> , 2022 , 721, 122082	1.8	1
50	Continuous tuning the wetting growth of Au on Se nanoparticles <i>Journal of Colloid and Interface Science</i> , 2022 , 618, 451-461	9.3	0
49	Recent development on core-shell photo(electro)catalysts for elimination of organic compounds from pharmaceutical wastewater <i>Chemosphere</i> , 2022 , 134311	8.4	1
48	Electrodeposition of PtRh Trioctahedral Nanocrystals for the Oxidation Reactions of Methanol and Ethanol. <i>ACS Applied Energy Materials</i> , 2022 , 5, 807-814	6.1	0
47	Rational design and synthesis of one-dimensional platinum-based nanostructures for oxygen-reduction electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1459-1472	11.3	19
46	Chapter 2. Nanoalloy Electrocatalysts for Alcohol Oxidation Reactions. <i>RSC Energy and Environment Series</i> , 71-96	0.6	
45	Data_Sheet_1.docx. 2020 ,		
44	Highly Durable Pt-Based CoreBhell Catalysts with Metallic and Oxidized Co Species for Boosting the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 6394-6408	13.1	0
43	Research Progress in ZIF-8 Derived Single Atomic Catalysts for Oxygen Reduction Reaction. <i>Catalysts</i> , 2022 , 12, 525	4	O
		<u>'</u>	
42	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585	5.7	1
42 41	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and</i>		1
	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585		1 0
41	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585 Numerical modeling of nanofluidsIflow and heat transfer. 2022 , 151-202 Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. <i>Science China: Physics</i> ,	5.7	
40	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585 Numerical modeling of nanofluidsIflow and heat transfer. 2022 , 151-202 Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for	5·7 3.6	0
40	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585 Numerical modeling of nanofluids[flow and heat transfer. 2022 , 151-202 Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for Cisplatin Detection at ppb Level. <i>Biosensors</i> , 2022 , 12, 375 Solution-phase polyol synthesis and coadsorption MD calculations from faceted platinum	5·7 3.6 5·9	0 2
41 40 39 38	Recent research progress on high-entropy alloys as electrocatalytic materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165585 Numerical modeling of nanofluids[flow and heat transfer. 2022 , 151-202 Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for Cisplatin Detection at ppb Level. <i>Biosensors</i> , 2022 , 12, 375 Solution-phase polyol synthesis and coadsorption MD calculations from faceted platinum nanoparticles: NOVEL NPs-polymer morphology controlling. <i>Chemical Papers</i> , Enhanced Pt dispersion and catalytic properties of NaCl-promoted Pt/MFI zeolite catalysts for	5.7 3.6 5.9	0 2

34	Versatile nanoarchitectonics of Pt with morphology control of oxygen reduction reaction catalysts. <i>Science and Technology of Advanced Materials</i> , 2022 , 23, 413-423	7.1	2
33	Experimental Sabatier plot for predictive design of active and stable Pt-alloy oxygen reduction reaction catalysts. <i>Nature Catalysis</i> , 2022 , 5, 513-523	36.5	5
32	Tuning Aullu Janus Structures through Strong Ligand-Mediated Interfacial Energy Control. <i>Chemistry of Materials</i> ,	9.6	1
31	Non-Precious Metal-Doped Carbon Materials Derived From Porphyrin-Based Porous Organic Polymers for Oxygen Reduction Electrocatalysis. <i>ChemPlusChem</i> , 2022 , 87,	2.8	
30	Fabrication of Gold-Based Sphere-on-Plate Hybrid Nanostructures with Dual Plasmonic Absorptions Covering Visible and Near-Infrared II Windows via the Volmer Weber Growth Mode. 2022 , 38, 9669-9677		0
29	Carbon nanotubes do not provide strong seeding effect for the nucleation of C3S hydration. 2022 , 55,		
28	Formation of Ag/Pt bimetallic nanoparticles obtained by ion implantation in #Al2O3. 2022 , 51, 101051		
27	Electrochemical synthesis of monodispersed and highly alloyed PtCo nanoparticles with a remarkable durability towards oxygen reduction reaction. 2022 , 318, 121831		1
26	First principles study of adsorption and simulation of desorption properties of Pd1⊠Agx. 2022 , 33, e007	41	0
25	Promising approach for preparing metallic single-atom catalysts: electrochemical deposition.		О
24	CAT: A Compound Attachment Tool for the Construction of Composite Chemical Compounds.		О
23	Continuous and Scalable Production of Platinum Nanocubes with Uniform and Controllable Sizes in Air-Free Droplet Reactors. 2022 , 126, 8588-8595		1
22	High-Entropy Nanomaterials for Electrochemical Energy Conversion and Storage. 1,		0
21	Recent advances of electrodeposition of Bi2Te3 and its thermoelectric applications in miniaturized power generation and cooling. 1-35		O
20	Kirkendall effect-driven formation of hollow PtNi alloy nanostructures with enhanced oxygen reduction reaction performance. 2023 , 556, 232483		0
19	Structure and dynamics of 38-atom Ag-Pt nanoalloys using ANN based-interatomic potential. 2023 , 1220, 113985		O
18	Studies on the Effect of Solvent for the Synthesis of Low Cost and Efficient Pt-Co / C AB Cathode Electrocatalyst to Enhance the Performance of a hydrogen based PEMFC.		0
17	Synthesis of Pt Double-Walled Nanoframes with Well-Defined and Controllable Facets.		O

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16	One-Step Synthesis of Light Metal Nanoparticle from Metastable Complex. 2206518	0
15	Emulsion-assisted interfacial polymerization strategy: Controllable architectural engineering of anisotropic and isotropic nanoparticles for high-performance supercapacitors. 20220058	O
14	Dual/Triple Template-Induced Evolved Emulsion for Controllable Construction of Anisotropic Carbon Nanoparticles from Concave to Convex. 2210963	0
13	Diffusion-controlled bridging of the Au Island and Au core in Au@Rh(OH)3 core-shell structure. 11,	O
12	Scalable production of an intermetallic Ptto electrocatalyst for high-power proton-exchange-membrane fuel cells.	O
11	Recent advances in mixing-induced nanoprecipitation: from creating complex nanostructures to emerging applications beyond biomedicine.	O
10	Anisotropic Heavy-Metal-Free Semiconductor Nanocrystals: Synthesis, Properties, and Applications. 2023 , 123, 3625-3692	0
9	Pt-Based Intermetallic Compound Catalysts for the Oxygen Reduction Reaction: Structural Control at the Atomic Scale to Achieve a WinWin Situation Between Catalytic Activity and Stability. 2023 , 6,	Ο
8	Molecular dynamics simulation of ion dynamics within PEM Fuel Cells. 2023, 816, 140380	0
7	Two-Dimensional Metal Nanostructures: From Theoretical Understanding to Experiment. 2023 , 123, 3443-3492	Ο
6	Structural Size Effect in Capped Metallic Nanoparticles. 2023 , 17, 5663-5672	0
5	Green nanoparticles for stereospecific and stereoselective organic synthesis. 2023 , 195-240	O
4	Design principles for the synthesis of platinumBobalt intermetallic nanoparticles for electrocatalytic applications. 2023 , 59, 4852-4871	0
3	Engineering the Au-Cu 2 O Crystalline Interfaces for Structural and Catalytic Integration.	O
2	Bubble-propelled micro-/nanomotors of variable sizes by regulating the surface microstructure of partially coated Pt shells.	0
1	Nanoparticle drug delivery systems in hepatocellular carcinoma: A focus on targeting strategies and therapeutic applications. 2023 , 12, 100159	Ο