CITATION REPORT List of articles citing

Shape-controlled synthesis of platinum nanocrystals for catalytic and electrocatalytic applications

DOI: 10.1016/j.nantod.2008.09.002 Nano Today, 2009, 4, 81-95.

Source: https://exaly.com/paper-pdf/46429273/citation-report.pdf

Version: 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper IF	Citations
786	Directed self-assembly of monodispersed platinum nanoclusters on graphene Moir[template. 2009 , 95, 093106	106
785	Synthesis and Characterizations of Cubic Assembly Composed of Platinum Nanoparticles. 2009 , 79-82, 1555-1558	1
784	Synthesis and application in surface-enhanced Raman scattering property of fist-like platinum microparticles. 2009 , 63, 2171-2174	4
783	Semiconductor-Gold Nanocomposite Catalysts for the Efficient Three-Component Coupling of Aldehyde, Amine and Alkyne in Water. 2009 , 351, 2887-2896	51
782	Twin-Induced Growth of Palladium Platinum Alloy Nanocrystals. <i>Angewandte Chemie</i> , 2009 , 121, 6422-643.6	13
781	Twin-induced growth of palladium-platinum alloy nanocrystals. 2009, 48, 6304-8	113
780	Directed assembly of nanowires. 2009 , 12, 34-43	150
779	Electro-oxidation of dimethyl ether on platinum nanocubes with preferential $\{100\}$ surfaces. 2009 , 11, 1596-1598	22
778	Electrocatalytic activity of Pt nanoparticles deposited on porous TiO2 supports toward methanol oxidation. 2009 , 91, 663-669	92
777	Functionalization of ZrO2 nanofibers with Pt nanostructures: The effect of surface roughness on nucleation mechanism and morphology control. 2009 , 476, 56-61	35
776	Structural characterization of Pt-Pd and Pd-Pt core-shell nanoclusters at atomic resolution. 2009 , 131, 8683-9	98
775	Nanoparticle catalysts. 2009 , 42, 233001	180
774	In situ and ex situ studies of platinum nanocrystals: growth and evolution in solution. 2009 , 131, 14590-5	151
773	Synthesis and Application of Pt Nanocrystals with Controlled Crystallographic Planes. 2009, 113, 18115-181	20 44
772	Controlled Growth and Magnetic Property of FePt Nanostructure: Cuboctahedron, Octapod, Truncated Cube, and Cube. 2009 , 21, 4955-4961	83
771	Adsorption and diffusion of Fe on a titania ultrathin film. 2009 , 113, 14860-6	12
770	From Self-Assembled Microspheres to Self-Templated Nanotubes: Morphologies and Properties of Sulfur-Bridged Fluoranthene-Based Organic Materials. 2009 , 21, 5763-5771	9

769	Supportless oxygen reduction electrocatalysts of CoCuPt hollow nanoparticles. 2010, 368, 4261-74		10
768	Prospects of colloidal nanocrystals for electronic and optoelectronic applications. <i>Chemical Reviews</i> , 2010 , 110, 389-458	.1	3354
767	Platinum-based nanostructured materials: synthesis, properties, and applications. <i>Chemical Reviews</i> , 2010 , 110, 3767-804	.1	1133
766	Large scale photochemical synthesis of M@TiO2 nanocomposites (M = Ag, Pd, Au, Pt) and their optical properties, CO oxidation performance, and antibacterial effect. <i>Nano Research</i> , 2010 , 3, 244-255 ^{1O}		223
765	Shape- and Composition-Controlled PtHello Nanoparticles for Electrocatalytic Methanol Oxidation. <i>Topics in Catalysis</i> , 2010 , 53, 686-693		25
764	Fabrication of monometallic (Co, Pd, Pt, Au) and bimetallic (Pt/Au, Au/Pt) thin films with hierarchical architectures as electrocatalysts. 2010 , 12, 822-828		8
763	An Electrochemical Approach to PtAg Alloy Nanostructures Rich in Pt at the Surface. 2010 , 20, 3734-3741		99
762	Seed-mediated synthesis of truncated gold decahedrons with a AuCl/oleylamine complex as precursor. 2010 , 22, 1930-4		63
761	Localized deposition of Au nanoparticles by direct electron transfer through cellobiose dehydrogenase. 2010 , 16, 11697-706		23
760	A Sinter-Resistant Catalytic System Based on Platinum Nanoparticles Supported on TiO2 Nanofibers and Covered by Porous Silica. <i>Angewandte Chemie</i> , 2010 , 122, 8341-8344		23
759	Pd Adatom Decorated (100) Preferentially Oriented Pt Nanoparticles for Formic Acid Electrooxidation. <i>Angewandte Chemie</i> , 2010 , 122, 7152-7155		12
758	Glfizende Aussichten ffi platinbasierte legierte Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2010 , 122, 10013-10014		6
757	A sinter-resistant catalytic system based on platinum nanoparticles supported on TiO2 nanofibers and covered by porous silica. 2010 , 49, 8165-8		109
756	Pd adatom decorated (100) preferentially oriented Pt nanoparticles for formic acid electrooxidation. 2010 , 49, 6998-7001		78
755	Shaping a bright future for platinum-based alloy electrocatalysts. 2010 , 49, 9819-20		28
754	Controlled synthesis of Pt nanoparticles via seeding growth and their shape-dependent catalytic activity. 2010 , 352, 379-85		18
753	Engineering the Properties of Metal Nanostructures via Galvanic Replacement Reactions. 2010 , 70, 44-62		166
75²	A Facile Route for Polymer Electrolyte Membrane Fuel Cell Electrodes with in situ Grown Pt Nanowires. 2010 , 195, 289-292		56

751	Morphological features of electrodeposited Pt nanoparticles and its application as anode catalysts in polymer electrolyte formic acid fuel cells. 2010 , 195, 5929-5933		29
75°	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
749	Silver triangular nanoplates as electrocatalyst for oxygen reduction reaction. 2010 , 12, 1609-1613		57
748	Nanochemistry IFrom Supramolecular Chemistry to Chemistry on the Nanoscale, Catalysis, Renewable Energy, Batteries, and Environmental Protection. 2010 , 477-526		
747	Platinum attachments on iron oxide nanoparticle surfaces. 2010 , 107, 09B311		19
746	A new shape of gold nanocrystals: singly twinned squashed dodecahedron. <i>CrystEngComm</i> , 2010 , 12, 4028	3	14
745	EDTA-directed self-assembly and enhanced catalytic properties of sphere-constructed platinum nanochains. 2010 , 43, 115403		17
744	Synthesis of Porous Single-Crystalline Platinum Nanocubes Composed of Nanoparticles. 2010 , 1, 568-71		46
743	Truncated octahedral Pt(3)Ni oxygen reduction reaction electrocatalysts. 2010, 132, 4984-5		459
742	One-Step Synthesis of Size-Tunable Rhodium Nanoparticles on Carbon Nanotubes: A Study of Particle Size Effect on Hydrogenation of Xylene. 2010 , 114, 11364-11369		32
741	Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. 2010 , 22, 6310-6318		348
740	Theoretical Model to Calculate Catalytic Activation Energies of Platinum Nanoparticles of Different Sizes and Shapes. 2010 , 114, 1534-1538		37
739	The synthesis and characterization of platinum nanoparticles: a method of controlling the size and morphology. 2010 , 21, 035605		83
738	Synthesis of platinum cubes, polypods, cuboctahedrons, and raspberries assisted by cobalt nanocrystals. 2010 , 10, 964-73		126
737	Electrocatalysis at Microelectrodes: Geometrical Considerations. 2010 , 114, 13650-13656		10
736	Electroreduction of dioxygen for fuel-cell applications: materials and challenges. <i>Inorganic Chemistry</i> , 2010 , 49, 3557-66	1	588
735	Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. 2010 , 22, 2835-2841		130
734	In situ time-resolved XAFS study on the formation mechanism of Cu nanoparticles using poly(N-vinyl-2-pyrrolidone) as a capping agent. <i>Langmuir</i> , 2010 , 26, 4473-9		38

(2011-2010)

733	Tunable Size and Shape Control of Platinum Nanocrystals from a Single Peptide Sequence. 2010 , 22, 6524-6528		48
732	Synthesis of Pt nanopetals on highly ordered silicon nanocones for enhanced methanol electrooxidation activity. ACS Applied Materials & amp; Interfaces, 2010, 2, 2231-7	,	37
731	Exploring the Limitations of the Use of Competing Reducers to Control the Morphology and Composition of Pt and PtCo Nanocrystals. 2010 , 22, 4495-4504		24
730	Evolution of various porphyrin nanostructures via an oil/aqueous medium: controlled self-assembly, further organization, and supramolecular chirality. 2010 , 132, 9644-52		151
729	Nanostructured Pt-alloy electrocatalysts for PEM fuel cell oxygen reduction reaction. 2010 , 39, 2184-202		926
728	Synthesis and Oxygen Reduction Electrocatalytic Property of Platinum Hollow and Platinum-on-Silver Nanoparticles 2010 , 22, 1098-1106		138
727	Three-dimensional Pt-on-Pd bimetallic nanodendrites supported on graphene nanosheet: facile synthesis and used as an advanced nanoelectrocatalyst for methanol oxidation. 2010 , 4, 547-55		1041
726	Visualizing materials chemistry at atomic resolution. 2010 , 82, 2599-607		28
7 2 5	Co-Assembly of Nanoparticles in Evaporating Aerosol Droplets: Preparation of Nanoporous Pt/TiO2 Composite Particles. 2010 , 44, 1140-1145		14
724	Size effect of ruthenium nanoparticles in catalytic carbon monoxide oxidation. 2010 , 10, 2709-13		329
723	Rational synthesis of heterostructured nanoparticles with morphology control. 2010 , 132, 6524-9		134
722	Composition-dependent formation of platinum silver nanowires. 2010 , 4, 1501-10		126
721	Thermal Treatment of PtNiCo Electrocatalysts: Effects of Nanoscale Strain and Structure on the Activity and Stability for the Oxygen Reduction Reaction. 2010 , 114, 17580-17590		84
720	Chromium-assisted synthesis of platinum nanocube electrocatalysts. 2010 , 46, 7184-6		41
719	CO-assisted synthesis of finely size-controlled platinum nanoparticles. 2011 , 47, 3864-6		12
718	Morphology controllable growth of Pt nanoparticles/nanowires on carbon powders and its application as novel electro-catalyst for methanol oxidation. <i>Nanoscale</i> , 2011 , 3, 5041-8	7	40
717	Mn3O4 catalyzed growth of polycrystalline Pt nanoparticles and single crystalline Pt nanorods with high index facets. 2011 , 47, 1009-11		23
716	Growth of silver nanowires on GaAs wafers. <i>Nanoscale</i> , 2011 , 3, 2247-55	7	8

715	Monomorphic platinum octapod and tripod nanocrystals synthesized by an iron nitrate modified polyol process. 2011 , 47, 11966-8	12
714	Morphology mapping of platinum catalysts over the entire nanoscale. <i>Catalysis Science and Technology</i> , 2011 , 1, 1440	24
713	1D nano- and microbelts self-assembled from the organic-inorganic hybrid molecules: oxadiazole-containing cyclotriphosphazene. <i>Langmuir</i> , 2011 , 27, 3982-90	24
712	Facile synthesis of noble metal nanotubes by using ZnO nanowires as sacrificial scaffolds and their electrocatalytic properties. 2011 , 47, 6299-301	29
711	Controllable Electrochemical Synthesis and Photocatalytic Activity of CeO2 Octahedra and Nanotubes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, E41	23
710	Enhanced activity of Pt-based electrocatalysts for oxygen reduction via a selective Pt deposition process. 2011 , 662, 70-79	20
709	Morphology-dependent nanocatalysis: metal particles. <i>Dalton Transactions</i> , 2011 , 40, 5811-26 4.3	166
708	Thermal stability of platinum nanowires: a comparison study between single-crystalline and twinned structures. 2011 , 21, 18998	16
707	The solvent matters: kinetic versus thermodynamic shape control in the polyol synthesis of rhodium nanoparticles. 2011 , 5, 8089-99	161
706	Nanomaterials of high surface energy with exceptional properties in catalysis and energy storage. 2011 , 40, 4167-85	668
705	Facile sonochemical synthesis of carbon nanotube-supported bimetallic PtRh nanoparticles for room temperature hydrogenation of arenes. 2011 , 35, 1649	52
704	Self-Assembly of Nanoparticle Building Blocks. 2011 , 203-224	
703	Attachment of Platinum Nanoparticles to Substrates by Coating and Polyol Reduction of A Platinum Precursor. 2011 , 115, 8519-8526	44
702	Iridium-platinum alloy nanoparticles: Composition-dependent electrocatalytic activity for formic acid oxidation. 2011 , 21, 9169	87
701	Nanoengineered PtCo and PtNi Catalysts for Oxygen Reduction Reaction: An Assessment of the Structural and Electrocatalytic Properties. 2011 , 115, 1682-1694	157
700	Design and synthesis of bimetallic electrocatalyst with multilayered Pt-skin surfaces. 2011 , 133, 14396-403	489
699	Surfactant-induced postsynthetic modulation of Pd nanoparticle crystallinity. 2011 , 11, 1614-7	87
698	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. <i>ACS Catalysis</i> , 2011 , 1, 1355-1359	111

(2011-2011)

697	The atomic structural dynamics of EAl2O3 supported Ir-Pt nanocluster catalysts prepared from a bimetallic molecular precursor: a study using aberration-corrected electron microscopy and X-ray absorption spectroscopy. 2011 , 133, 3582-91		40
696	Morphology of nanoclusters and nanopillars formed in nonequilibrium surface growth for catalysis applications. <i>Langmuir</i> , 2011 , 27, 8554-61	4	20
695	Novel standing NiPt alloy nanocubes. CrystEngComm, 2011, 13, 3364	3.3	21
694	Synthesis of platinum single-twinned right bipyramid and {111}-bipyramid through targeted control over both nucleation and growth using specific peptides. 2011 , 11, 3040-6		65
693	Sunlight-driven plasmonic photocatalysts based on Ag/AgCl nanostructures synthesized via an oil-in-water medium: enhanced catalytic performance by morphology selection. 2011 , 21, 16413		127
692	Enhanced electrocatalytic oxygen reduction through electrostatic assembly of Pt nanoparticles onto porous carbon supports from SnCl2-stabilized suspensions. <i>Langmuir</i> , 2011 , 27, 5781-91	4	17
691	New nanostructured heterogeneous catalysts with increased selectivity and stability. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2449-56	3.6	101
690	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO4 Crystals. 2011 , 115, 201	13-20	168
689	Pt-based composite nanoparticles for magnetic, catalytic, and biomedical applications. 2011 , 21, 12579		44
688	Fabrication of superhydrophobic surfaces on zinc substrates and their application as effective corrosion barriers. <i>Applied Surface Science</i> , 2011 , 258, 1359-1365	6.7	46
687	Synthesis and characterization of PtPd nanoparticles with core-shell morphology: Nucleation and overgrowth of the Pd shells on the as-prepared and defined Pt seeds. 2011 , 509, 7702-7709		23
686	Shape dependent electrocatalysis. 2011 , 107, 263		131
685	Crystal facet engineering of semiconductor photocatalysts: motivations, advances and unique properties. 2011 , 47, 6763-83		753
684	Shape-controlled synthesis of PtPd coreShell nanoparticles exhibiting polyhedral morphologies by modified polyol method. 2011 , 59, 2901-2907		51
683	Site Specific Deposition of Ag on the Corners of Pt Nanocubes. 2011 , 40, 705-707		3
682	Preparation and characterization of poly(3,4-ethylenedioxythiophene) poly(styrene sulfonate) composite thin films highly loaded with platinum nanoparticles. 2011 , 127, 440-445		10
681	Morphology-dependent activity of Pt nanocatalysts for ethanol oxidation in acidic media: Nanowires versus nanoparticles. 2011 , 56, 9824-9830		44
680	Controllable growth of thulti-level tower IZnO for biodiesel production. 2011 , 37, 3193-3202		15

679	Morphology-controlled synthesis and electrocatalytic characteristics of platinum structures on micro-patterned carbon nanotube platforms. 2011 , 41, 1425-1431		12
678	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
677	Ultrafine Pt Nanoclusters for the Direct Methanol Fuel Cell Reactions. 2011 , 22, 173-181		5
676	Facile synthesis and characterization of Co nanoplatelets with tunable dimensions via solution reduction process. 2011 , 13, 1709-1715		10
675	Olefin hydrogenation catalysis of platinum nanocrystals with different shapes. 2011 , 13, 5147-5156		22
674	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
673	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
672	Crystallographic control of noble metal nanocrystals. <i>Nano Today</i> , 2011 , 6, 265-285	17.9	161
671	Solvothermal synthesis of uniform bismuth nanospheres using poly(N-vinyl-2-pyrrolidone) as a reducing agent. 2011 , 6, 66		30
670	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse PtxNi1-x Nanoparticles. 2011 , 21, 147-152		204
669	Silver-Polymer Composite Stars: Synthesis and Applications. 2011 , 21, 1673-1680		41
668	Strategies for the fabrication of porous platinum electrodes. 2011 , 23, 4976-5008		151
667	Metall-Nanokristalle mit hochverzweigten Morphologien. <i>Angewandte Chemie</i> , 2011 , 123, 78-87	3.6	63
666	Surfactant-Free Platinum-on-Gold Nanodendrites with Enhanced Catalytic Performance for Oxygen Reduction. <i>Angewandte Chemie</i> , 2011 , 123, 771-774	3.6	12
665	Metal nanocrystals with highly branched morphologies. 2011 , 50, 76-85		500
664	Surfactant-free platinum-on-gold nanodendrites with enhanced catalytic performance for oxygen reduction. 2011 , 50, 745-8		92
663	Silver and gold icosahedra: one-pot water-based synthesis and their superior performance in the electrocatalysis for oxygen reduction reactions in alkaline media. 2011 , 17, 3482-9		44
662	Synthesis of mesoporous Pt nanoparticles with uniform particle size from aqueous surfactant solutions toward highly active electrocatalysts. 2011 , 17, 8810-5		65

(2012-2011)

661	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
660	Noble metal nanomaterials: Controllable synthesis and application in fuel cells and analytical sensors. <i>Nano Today</i> , 2011 , 6, 240-264	17.9	661
659	Synthesis and characterization of polyhedral Pt nanoparticles: their catalytic property, surface attachment, self-aggregation and assembly. 2011 , 359, 339-50		53
658	One-step controllable fabrication of superhydrophobic surfaces with special composite structure on zinc substrates. 2011 , 361, 388-96		25
657	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
656	Polymer end-group mediated synthesis of well-defined catalytically active platinum nanoparticles. 2011 , 21, 15788		13
655	Dispersion of Pt Nanoparticle-Doped Reduced Graphene Oxide Using Aniline as a Stabilizer. 2012 , 5, 2927-2936		19
654	The Status of Catalysts in PEMFC Technology. 2012 , 329-368		2
653	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
652	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
651	Electrochemiluminescence imaging-based high-throughput screening platform for electrocatalysts used in fuel cells. 2012 , 84, 7700-7		69
650	Surfactant-free preparation of supported cubic platinum nanoparticles. 2012 , 48, 1854-6		43
649	Template-free synthesis of cube-like Ag/AgCl nanostructures via a direct-precipitation protocol: highly efficient sunlight-driven plasmonic photocatalysts. <i>ACS Applied Materials & amp; Interfaces</i> , 2012 , 4, 6386-92	9.5	103
648	Synthesis and applications of noble metal nanocrystals with high-energy facets. <i>Nano Today</i> , 2012 , 7, 586-605	17.9	198
647	Platinum-coated porous gold nanorods in methanol electrooxidation: dependence of catalytic activity on ligament size. 2012 , 7, 2937-41		4
646	Morphology-Controlled Synthesis and Applications of Silver Halide Photocatalytic Materials. 2012 , 16, 210-230		49
645	A facile and general preparation of high-performance noble-metal-based free-standing nanomembranes by a reagentless interfacial self-assembly strategy. <i>Nanoscale</i> , 2012 , 4, 6974-80	7.7	9
644	Synthesis of surfactant-free Pt concave nanoparticles in a freshly-made or recycled molten salt. 2012 , 14, 3197		9

643	Synthesis of palladium nanocatalysts with cucurbit[n]uril as both a protecting agent and a support for Suzuki and Heck reactions. <i>Catalysis Science and Technology</i> , 2012 , 2, 156-163	5.5	34
642	FePt concave nanocubes with enhanced methanol oxidation activity. <i>CrystEngComm</i> , 2012 , 14, 7572	3.3	27
641	Control over the branched structures of platinum nanocrystals for electrocatalytic applications. 2012 , 6, 9797-806		113
640	Colloidal nanocube supercrystals stabilized by multipolar Coulombic coupling. 2012 , 6, 4203-13		42
639	Syntheses of Sub-30 nm [email´protected] Concave Nanocubes and Pt-on-([email´protected]) Trimetallic Nanostructures as Highly Efficient Catalysts for Ethanol Oxidation. 2012 , 116, 20839-20847		67
638	Facile Synthesis and Fine Morphological Tuning of Ag2O. 2012 , 12, 4180-4185		37
637	Highly sensitive room-temperature CO gas sensors: Pt and Pd nanoparticle-decorated In2O3 flower-like nanobundles. 2012 , 22, 13204		93
636	Recent Advances in Preferential Oxidation of CO Reaction over Platinum Group Metal Catalysts. <i>ACS Catalysis</i> , 2012 , 2, 1165-1178	13.1	311
635	Features of the stabilization of silver nanoparticles by carbonyl-containing polymers. 2012 , 48, 213-226		5
634	Iodine Ions Mediated Formation of Monomorphic Single-Crystalline Platinum Nanoflowers. 2012 , 24, 2645-2654		61
633	Monte Carlo simulations of the structure of Pt-based bimetallic nanoparticles. 2012 , 60, 4908-4916		63
632	Synthesis of crystalline silver nanoplates and their application for detection of nitrite in foods. 2012 , 664, 135-138		71
631	Size and Shape Control of Metal Nanoparticles for Reaction Selectivity in Catalysis. <i>ChemCatChem</i> , 2012 , 4, 1512-1524	5.2	376
630	Platinum nanoparticles stabilized by cucurbit[6]uril with enhanced catalytic activity and excellent poisoning tolerance for methanol electrooxidation. 2012 , 18, 12978-85		41
629	Electrochemical design of mesoporous Pt-Ru alloy films with various compositions toward superior electrocatalytic performance. 2012 , 18, 13142-8		24
628	Ag/AgBr/graphene oxide nanocomposite synthesized via oil/water and water/oil microemulsions: a comparison of sunlight energized plasmonic photocatalytic activity. <i>Langmuir</i> , 2012 , 28, 3385-90	4	191
627	Platinum and Palladium Nanocrystals: Soft Chemistry Approach to Shape Control from Individual Particles to Their Self-Assembled Superlattices. 2012 , 305-337		1
626	Colloids, Nanocrystals, and Surface Nanostructures of Uniform Size and Shape: Modeling of Nucleation and Growth in Solution Synthesis. 2012 , 239-268		5

625	Modeling Nanomorphology in Noble Metal Particles: Thermodynamic Cartography. 2012 , 269-303	1
624	Cage-bell structured Au P t nanomaterials with enhanced electrocatalytic activity toward oxygen reduction. 2012 , 37, 13191-13199	17
623	One-pot synthesis and its surprisingly electrocatalytic property of mesoporous Pt/AgCl nanocubes with honeycomb shape. 2012 , 89, 236-239	4
622	Highly efficient visible-light-driven plasmonic photocatalysts based on graphene oxide-hybridized one-dimensional Ag/AgCl heteroarchitectures. 2012 , 22, 21487	92
621	Controlling the morphologies of WO3 particles and tuning the gas sensing properties. 2012 , 36, 2205	64
620	Molecular Dynamic Simulations of the Effect on the Hydration of Nafion in the Presence of a Platinum Nanoparticle. 2012 , 116, 12890-12899	23
619	Electrostatic interaction based hollow Pt and Ru assemblies toward methanol oxidation. 2012, 2, 7479	21
618	Influence of adsorbates on the electronic structure, bond strain, and thermal properties of an alumina-supported Pt catalyst. 2012 , 6, 5583-95	49
617	A green chemical approach for preparation of PtxCuy nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions. 2012 , 22, 4780	52
616	Multimetallic alloy nanotubes with nanoporous framework. 2012 , 6, 5659-67	66
615	Morphology-dependent nanocatalysis on metal oxides. 2012 , 55, 2485-2496	39
614	Heterogeneous Au-Pt nanostructures with enhanced catalytic activity toward oxygen reduction. Dalton Transactions, 2012 , 41, 2898-903 4-3	51
613	Facile synthesis of concave decahedra enclosed by high-index facets and truncated decahedra with a large size. <i>Dalton Transactions</i> , 2012 , 41, 4948-54	5
612	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. 2012 , 22, 5550	72
611	Electron tomography and 3D molecular simulations of platinum nanocrystals. <i>Nanoscale</i> , 2012 , 4, 5125-3 7 .7	11
610	Ptau nanoctahedra: synthesis and comparative study with nanocubes on their electrochemical catalytic performance. 2012 , 3, 3302	59
609	A simple eco-friendly solution phase reduction method for the synthesis of polyhedra platinum nanoparticles with high catalytic activity for methanol electrooxidation. 2012 , 22, 3170	33
608	Electrocatalytic properties of hollow coral-like platinum mesocrystals. <i>ACS Applied Materials & amp; Interfaces</i> , 2012 , 4, 6942-8	39

607	Tailored design of architecturally controlled Pt nanoparticles with huge surface areas toward superior unsupported Pt electrocatalysts. <i>ACS Applied Materials & Design Section</i> , 4, 2865-9	9.5	56
606	Enhancing the catalytic and electrocatalytic properties of Pt-based catalysts by forming bimetallic nanocrystals with Pd. 2012 , 41, 8035-49		438
605	Single crystalline Pt nanotubes with superior electrocatalytic stability. 2012 , 22, 16732		19
604	Catalysis for Alternative Energy Generation. 2012 ,		18
603	Morphology Control of Palladium Nanostructures by Potential Adjustment. 2012,		
602	Advanced Platinum Alloy Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012 , 2, 891-898	13.1	352
601	Role of Metal Coordination Structures in Enhancement of Electrocatalytic Activity of Ternary Nanoalloys for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012 , 2, 795-806	13.1	57
600	Highly active and durable core-corona structured bifunctional catalyst for rechargeable metal-air battery application. 2012 , 12, 1946-52		350
599	Gram-Scale Synthesis of Multipod Pd Nanocrystals by a Simple Solid Liquid Phase Reaction and Their Remarkable Electrocatalytic Properties. 2012 , 2012, 3740-3746		4
598	Tuning Complex Shapes in Platinum Nanoparticles: From Cubic Dendrites to Fivefold Stars. Angewandte Chemie, 2012 , 124, 4768-4772	3.6	10
597	Tuning complex shapes in platinum nanoparticles: from cubic dendrites to fivefold stars. 2012 , 51, 4690-	4	73
596	Selectively deposited noble metal nanoparticles on Fe3O4/graphene composites: stable, recyclable, and magnetically separable catalysts. 2012 , 18, 7601-7		119
595	Cuprous oxide nanoparticles dispersed on reduced graphene oxide as an efficient electrocatalyst for oxygen reduction reaction. 2012 , 48, 1892-4		171
594	Shape and Size Controlled Pt Nanocrystals as Novel Model Catalysts. 2012 , 16, 1-13		20
593	Platinum Nanoclusters Exhibit Enhanced Catalytic Activity for Methane Dehydrogenation. <i>Topics in Catalysis</i> , 2012 , 55, 345-352	2.3	14
592	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkk} high-index surfaces. <i>Nano Research</i> , 2012 , 5, 181-189	10	87
591	Hydrothermal growth of flower-like CaO for biodiesel production. 2012 , 38, 3473-3482		11
590	Methanol-tolerant Pd nanocubes for catalyzing oxygen reduction reaction in H2SO4 electrolyte. 2012 , 117-118, 204-211		41

(2013-2012)

589	Dendritic Pttu bimetallic nanocrystals with a high electrocatalytic activity toward methanol oxidation. 2012 , 132, 244-247	36
588	New strategy to prepare platinum salts by electrochemical methods and subsequent synthesis of platinum nanoparticles. 2012 , 47, 167-171	3
587	Pd cluster nanowires as highly efficient catalysts for selective hydrogenation reactions. 2012 , 18, 2639-45	47
586	Removing polyvinylpyrrolidone from catalytic Pt nanoparticles without modification of superficial order. 2012 , 13, 709-15	62
585	Catalytic Properties of Nanorods. 2013 , 215-240	
584	Au@Pd nanostructures with tunable morphologies and sizes and their enhanced electrocatalytic activity. <i>CrystEngComm</i> , 2013 , 15, 7113	29
583	Physical Properties of Nanorods. 2013 ,	14
582	High-performance visible-light-driven plasmonic photocatalysts Ag/AgCl with controlled size and shape using graphene oxide as capping agent and catalyst promoter. <i>Langmuir</i> , 2013 , 29, 9259-68	92
581	Synthesis of highly branched gold nanodendrites with a narrow size distribution and tunable NIR and SERS using a multiamine surfactant. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 6886-92	47
580	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
579	Controlled synthesis of Au-loaded Fe3O4@C composite microspheres with superior SERS detection and catalytic degradation abilities for organic dyes. <i>Dalton Transactions</i> , 2013 , 42, 8597-605	97
578	Electrochemical synthesis of flower-like Pd nanoparticles with high tolerance toward formic acid electrooxidation. 2013 , 3, 15727	17
577	Octahedral noble-metal nanoparticles and their electrocatalytic properties. 2013, 6, 1848-57	6
576	Electrochemical and XAS investigation of oxygen reduction reaction on Pt-TiO2-C catalysts. 2013 , 38, 12648-12656	27
575	Crystal Plane-Dependent Surface Reactivity and Catalytic Property of Oxide Catalysts Studied with Oxide Nanocrystal Model Catalysts. <i>Topics in Catalysis</i> , 2013 , 56, 1363-1376	47
574	Nanoparticle Shape Selectivity in Catalysis: Butene Isomerization and Hydrogenation on Platinum. Topics in Catalysis, 2013 , 56, 1284-1298	23
573	Visible-light-driven Ag/Ag3PO4-based plasmonic photocatalysts: Enhanced photocatalytic performance by hybridization with graphene oxide. 2013 , 58, 84-91	41
57 ²	Metal Nanoparticle Synthesis. 2013 , 75-102	6

571	Shape-controlled nanostructures in heterogeneous catalysis. 2013 , 6, 1797-820	117
57°	Hydrazine detection by shape-controlled palladium nanostructures on carbon nanotube thin films. 2013 , 7, 156-163	6
569	Size and Shape Effects of [email´protected] CoreBhell Nanoparticles: Unique Role of Surface Contraction and Local Structural Flexibility. 2013 , 117, 16144-16149	55
568	Polymeric Hydrogels and Nanoparticles: A Merging and Emerging Field. 2013 , 66, 997	136
567	Electrocatalytic performance of Nicore@Ptshell/C coreShell nanoparticle with the Pt in nanoshell. 2013 , 38, 14261-14268	22
566	Hydrogen Deposition on Pt(111) during Electrochemical Hydrogen Evolution from a First-Principles Multiadsorption-Site Study. 2013 , 117, 22696-22704	40
565	Equilibrium Crystal Shape of Ni from First Principles. 2013 , 117, 21274-21280	40
564	Facile synthesis of clean Pt nanoparticles supported on reduced graphene oxide composites: Their growth mechanism and tuning of their methanol electro-catalytic oxidation property. 2013 , 111, 779-783	27
563	Tuning the Morphology of Metal Oxides for Catalytic Applications. 2013 , 333-403	1
562	Synthesis of single-crystal dendritic iron hydroxyl phosphate as a Fenton catalyst. <i>CrystEngComm</i> , 2013 , 15, 9104	13
561	Covalently grafted platinum nanoparticles to multi walled carbon nanotubes for enhanced electrocatalytic oxygen reduction. 2013 , 92, 168-175	51
560	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
559	Improved oxygen reduction reaction activities with amino acid R group functionalized PEG at platinum surfaces. 2013 , 1, 10267	4
558	Surfactant effects on the microstructures of Fe3O4 nanoparticles synthesized by microemulsion method. 2013 , 436, 675-683	74
557	Synthesis of bimetallic Pt/Pd nanotubes and their enhanced catalytic activity in methanol electro-oxidation. 2013 , 1, 15252	29
556	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. 2013 , 52, 12577-81	164
555	Sunlight-driven Ag-AgCl(1-x)Br(x) photocatalysts: enhanced catalytic performances via continuous bandgap-tuning and morphology selection. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12709-16	16
554	Facile synthesis of ionic-liquid functionalized graphite oxide nanosheets for a highly efficient fuel cell. 2013 , 3, 3655	6

553	Metastability and structural polymorphism in noble metals: the role of composition and metal atom coordination in mono- and bimetallic nanoclusters. 2013 , 7, 1542-57		32
552	High-Performance and Long-Lived Pd Nanocatalyst Directed by Shape Effect for CO Oxidative Coupling to Dimethyl Oxalate. <i>ACS Catalysis</i> , 2013 , 3, 118-122	.1	109
551	High yield synthesis of catalytically active five-fold twinned Pt nanorods from a surfactant-ligated precursor. 2013 , 49, 573-5		32
550	Growth of Pt Subnano Clusters on Limited Surface Areas of Prussian Blue Nanoparticles. 2013 , 23, 216-222		3
549	Nanostructured materials for applications in heterogeneous catalysis. 2013 , 42, 2746-62		491
548	Highly Branched Concave Au/Pd Bimetallic Nanocrystals with Superior Electrocatalytic Activity and Highly Efficient SERS Enhancement. <i>Angewandte Chemie</i> , 2013 , 125, 673-677	ó	20
547	Highly branched concave Au/Pd bimetallic nanocrystals with superior electrocatalytic activity and highly efficient SERS enhancement. 2013 , 52, 645-9		138
546	Surfactant-free and template-free electrochemical approach to prepare well-dispersed Pt nanosheets and their high electrocatalytic activities for ammonia oxidation. 2013 , 111, 562-566		28
545	Pt nanodendrites anchored on bamboo-shaped carbon nanofiber arrays as highly efficient electrocatalyst for oxygen reduction reaction. 2013 , 38, 16677-16684		21
544	Tuning the shape of ceria nanomaterials for catalytic applications. 2013 , 34, 838-850		70
543	Increase of catalyst utilization in polymer electrolyte membrane fuel cells by shape-selected Pt nanoparticles. 2013 , 38, 13393-13398		12
542	Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. 2013 , 52, 2520-4		135
541	Nanoparticle-modified electrode with size- and shape-dependent electrocatalytic activities. <i>Langmuir</i> , 2013 , 29, 3125-32		86
540	Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. <i>Chemical Reviews</i> , 2013 , 113, 1904-2074	.1	1008
539	Room temperature H2 sensing using functionalized GaN nanotubes with ultra low activation energy. 2013 , 38, 3513-3520		30
538	Metal ions to control the morphology of semiconductor nanoparticles: copper selenide nanocubes. 2013 , 135, 4664-7		97
537	Strongly coupled inorganic/nanocarbon hybrid materials for advanced electrocatalysis. 2013, 135, 2013-36		771
536	Shape-control and electrocatalytic activity-enhancement of Pt-based bimetallic nanocrystals. 2013 , 46, 1867-77		332

535	Shape-controlled synthesis of metal nanocrystals. 2013 , 38, 335-344		99
534	Fine tuning of the structure of Pt-Cu alloy nanocrystals by glycine-mediated sequential reduction kinetics. 2013 , 9, 3063-9		90
533	Ecofriendly Synthesis and Photocatalytic Activity of Uniform Cubic Ag@AgCl Plasmonic Photocatalyst. 2013 , 117, 213-220		192
532	Atomically precise gold nanoclusters as new model catalysts. 2013 , 46, 1749-58		770
531	Tuning nanoparticle catalysis for the oxygen reduction reaction. 2013 , 52, 8526-44		808
530	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. <i>Nano Today</i> , 2013 , 8, 198-215	17.9	83
529	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. <i>Nano Today</i> , 2013 , 8, 168-197	17.9	376
528	Effect of Support Structure and Composition on the Catalytic Activity of Pt Nanoclusters for Methane Dehydrogenation. 2013 , 52, 15447-15454		24
527	Nanoparticle adhesion in proton exchange membrane fuel cell electrodes. 2013, 241, 634-646		19
526	Platinum-based oxygen reduction electrocatalysts. 2013 , 46, 1848-57		774
525	Highly uniform platinum icosahedra made by hot injection-assisted GRAILS method. 2013, 13, 2870-4		150
524	Graphene oxide induced formation of Pt-CeO[hybrid nanoflowers with tunable CeO[thickness for catalytic hydrolysis of ammonia borane. 2013 , 19, 8082-6		44
523	In situ synthesis of 3D platinum nanoflowers on porous silicon for monolithic integrated micro direct methanol fuel cells. 2013 , 1, 8127		18
522	Facet-dependent catalytic activity of platinum nanocrystals for triiodide reduction in dye-sensitized solar cells. 2013 , 3, 1836		133
521	Shape-controlled synthesis of monodisperse PdCu nanocubes and their electrocatalytic properties. 2013 , 6, 1878-82		60
520	Diffusion-reaction compromise the polymorphs of precipitated calcium carbonate. 2013 , 11, 301-308		30
519	Fast growth of nanoparticles in a hollow cathode plasma through orbit motion limited ion collection. 2013 , 103, 193108		28
518	Preparation and Characterization of Platinum Nanorods Using Ascorbic Acid as the Reducing Agent. 2013 , 774-776, 577-580		2

517	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. 2013 , 110, 6669-73		285
516	Underpotential deposition-induced synthesis of composition-tunable Pt-Cu nanocrystals and their catalytic properties. 2013 , 19, 3119-24		58
515	Hard-templating Synthesis of Mesoporous Pt-Based Alloy Particles with Low Ni and Co Contents. 2013 , 42, 447-449		12
514	PdPt Nanocubes: A High-Performance Catalyst for Hydrolytic Dehydrogenation of Ammonia Borane. 2013 , 30, 888-892		49
513	Stabilized Metal Nanoparticles from Organometallic Precursors for Low Temperature Fuel Cells. 2013 , 7, 13-25		9
512	Palladium-Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. <i>Angewandte Chemie</i> , 2013 , 125, 2580-2584	5	52
511	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. <i>Angewandte Chemie</i> , 2013 , 125, 12809-12813	5	18
510	Optimierte Nanopartikel-Katalyse fildie Sauerstoffreduktionsreaktion. <i>Angewandte Chemie</i> , 2013 , 125, 8686-8705	5	105
509	Biological Synthesis of Metallic Nanoparticles by Bacteria, Fungi and Plants. 2014 , 05,		263
508	Investigations on the Separation of Platinum Nanoparticles With Magnetic Beads. 2014 , 50, 1-4		5
507	Anode Catalysts for Low-Temperature Direct Alcohol Fuel Cells. 2014 , 69-110		0
506	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. 2014 , 57, 13-25		38
505	Graphene on Crystalline Metal Surfaces. 2014 , 691-736		
504	Adsorption of a Pt13 Cluster on Graphene Oxides at Varied Ratios of Oxygen to Carbon and Its Catalytic Reactions for CO Removal Investigated with Quantum-Chemical Calculations. 2014 , 118, 26764-2	677	1 ¹⁶
503	Surface modification of platinum by laser-produced X-rays. 2014 , 169, 942-953		1
502	Application of Carbon Supported Ptcore Aushell Nanoparticles in Methanol Electrooxidation. 2014 , 118, 29845-29853		17
501	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
500	time-of-flight mass spectrometry. 2014 , 28, 505-19 Oxygen electrochemistry as a cornerstone for sustainable energy conversion. 2014 , 53, 102-21		1002

499	Ligand-controlled Co-reduction versus electroless Co-deposition: synthesis of nanodendrites with spatially defined bimetallic distributions. 2014 , 8, 12461-7		35
498	Facet-Controlled Metal Alloy Electrocatalysts for Oxygen Reduction Reaction: Unconventional Post Treatment of Pt3Ni Octahedral Catalysts for Enhanced Activity. 2014 , 61, 25-34		3
497	A comparative study of elemental additives (Ni, Co and Ag) on electrocatalytic activity improvement of PdSn-based catalysts for ethanol and formic acid electro-oxidation. 2014 , 148, 291-301		76
496	A direct one-step synthetic route to Pd P t nanostructures with controllable shape, size, and composition for electrocatalytic applications. 2014 , 2, 19239-19246		19
495	Die Elektrochemie des Sauerstoffs als Meilenstein fileine nachhaltige Energieumwandlung. Angewandte Chemie, 2014 , 126, 104-124	3.6	118
494	Shape-controlled metal nanocrystals for catalytic applications. 2014 , 39, 727-737		30
493	Arginine-assisted synthesis and catalytic properties of single-crystalline palladium tetrapods. ACS Applied Materials & Damp; Interfaces, 2014, 6, 22790-5	9.5	97
492	A new strategy for the synthesis of 3-D Pt nanoparticles on reduced graphene oxide through surface functionalization, Application for methanol oxidation and oxygen reduction. 2014 , 130, 397-405		51
491	Scaling up the production of colloidal nanocrystals: should we increase or decrease the reaction volume?. 2014 , 26, 2600-6		85
490	Formation of nanoclusters and nanopillars in nonequilibrium surface growth for catalysis applications: growth by diffusional transport of matter in solution synthesis. 2014 , 50, 383-392		11
489	The Influence of Particle Shape and Size on the Activity of Platinum Nanoparticles for Oxygen Reduction Reaction: A Density Functional Theory Study. 2014 , 144, 380-388		57
488	Shape-directed platinum nanoparticle synthesis: nanoscale design of novel catalysts. 2014 , 28, 1-17		71
487	Approaches to single-nanoparticle catalysis. 2014 , 65, 395-422		118
486	Interfacial assembly of mussel-inspired au@ag@ polydopamine core-shell nanoparticles for recyclable nanocatalysts. 2014 , 26, 701-5		171
485	Recent Advances in the Stabilization of Platinum Electrocatalysts for Fuel-Cell Reactions. ChemCatChem, 2014 , 6, 26-45	5.2	155
484	Nonlinear optical behavior of silver nanopentagons. 2014 , 116, 1-4		18
483	Generation of Monodisperse, Shape-Controlled Single and Hybrid CoreBhell Nanoparticles via a Simple One-Step Process. 2014 , 24, 841-847		11
482	Dealloyed Pt2Os nanoparticles for enhanced oxygen reduction reaction in acidic electrolytes. 2014 , 150-151, 636-646		12

481	A review on counter electrode materials in dye-sensitized solar cells. 2014 , 2, 4474-4490		411
480	Nanomaterials and biomaterials in electrochemical arrays for protein detection. 2014 , 2,		50
479	Facile synthesis of Pt/Pd nanodendrites for the direct oxidation of methanol. 2014 , 25, 195702		26
478	Aberration Corrected Electron Microscopy Study of Bimetallic PdBt Nanocrystal: CoreBhell Cubic and CoreBrame Concave Structures. 2014 , 118, 28876-28882		24
477	The effect of NH4+ on shape modulation of La1\(\mathbb{R}\)SrxMnO3 crystals in a hydrothermal environment. CrystEngComm, 2014, 16, 9842-9846	3.3	15
476	High-index-faceted platinum nanoparticles: insights into structural and thermal stabilities and shape evolution from atomistic simulations. 2014 , 2, 11480-11489		21
475	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. 2014 , 7, 2957-2962		147
474	Shaped platinum nanoparticles directly synthesized inside mesoporous silica supports. <i>Nanoscale</i> , 2014 , 6, 12540-6	7.7	11
473	High pressure synthesis of FePt nanoparticles with controlled morphology and Fe content. 2014 , 4, 116	58-117	3 4
472	The morphology dependent electrocatalytic activity of Ir nanostructures towards oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16815-23	3.6	17
471	Novel nickelpalladium catalysts encased in a platinum nanocage. 2014 , 4, 26667-26672		10
470	Clarifying stability, probability and population in nanoparticle ensembles. <i>Nanoscale</i> , 2014 , 6, 9983-90	7.7	17
469	Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations. 2014 , 4, 35959-35965		61
468	Polyelectrolyte assisted synthesis and enhanced oxygen reduction activity of Pt nanocrystals with controllable shape and size. <i>ACS Applied Materials & Amp; Interfaces</i> , 2014 , 6, 14043-9	9.5	43
467	CoreBhell Catalysts of Metal Nanoparticle Core and MetalDrganic Framework Shell. <i>ACS Catalysis</i> , 2014 , 4, 4409-4419	13.1	281
466	One-step synthesis of hybrid nanocrystals with rational tuning of the morphology. 2014 , 14, 6666-71		30
465	Oxygen reduction reaction and peroxide generation on shape-controlled and polycrystalline platinum nanoparticles in acidic and alkaline electrolytes. <i>Langmuir</i> , 2014 , 30, 8995-9006	4	71
464	Shape-directional growth of Pt and Pd nanoparticles. <i>Nanoscale</i> , 2014 , 6, 11364-71	7.7	15

463	Robust nonenzymatic hybrid nanoelectrocatalysts for signal amplification toward ultrasensitive electrochemical cytosensing. 2014 , 136, 2288-91	168
462	Functional links between Pt single crystal morphology and nanoparticles with different size and shape: the oxygen reduction reaction case. 2014 , 7, 4061-4069	176
461	Utilization of shape-controlled nanoparticles as catalysts with enhanced activity and selectivity. 2014 , 4, 41017-41027	47
460	Effects of heat treatment temperature and atmosphere on electrocatalytic properties of platinum nanocrystals. 2014 , 729, 53-60	5
459	Modeling of Growth Morphology of CoreBhell Nanoparticles. 2014 , 118, 24959-24966	9
458	In situ synthesis of ultra-small platinum nanoparticles using a water soluble polyphenolic polymer with high catalytic activity. 2014 , 4, 51745-51753	11
457	Multimetallic core/interlayer/shell nanostructures as advanced electrocatalysts. 2014, 14, 6361-7	127
456	Electrospinning: a facile technique for fabricating polymeric nanofibers doped with carbon nanotubes and metallic nanoparticles for sensor applications. 2014 , 4, 52598-52610	126
455	Hydrogen induced p-phosphonic acid calix[8]arene controlled growth of Ru, Pt and Pd nanoparticles. 2014 , 50, 15167-70	13
454	Liquid-like pseudoelasticity of sub-10-nm crystalline silver particles. 2014 , 13, 1007-12	205
453	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
452	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. 2014 , 6, 252-257	21
45 ¹	Surfactant-free platinum nanocubes with greatly enhanced activity towards methanol/ethanol electrooxidation. 2014 , 4, 28832	11
450	Self-assembled monolayers of thiolates on metals: a review article on sulfur-metal chemistry and surface structures. 2014 , 4, 27730-27754	142
449	Facile synthesis of Pd P t alloy concave nanocubes with high-index facets as electrocatalysts for methanol oxidation. <i>CrystEngComm</i> , 2014 , 16, 2411-2416	58
448	Hydrogen evolution assisted electrodeposition of bimetallic 3D nano/micro-porous PtPd films and their electrocatalytic performance. 2014 , 39, 8194-8203	43
447	Tailored design of functional nanoporous carbon materials toward fuel cell applications. <i>Nano Today</i> , 2014 , 9, 305-323	230
446	A switch from classic crystallization to non-classic crystallization by controlling the diffusion of chemicals. <i>CrystEngComm</i> , 2014 , 16, 7633-7637	15

(2015-2014)

445	Nanocatalyst superior to Pt for oxygen reduction reactions: the case of core/shell Ag(Au)/CuPd nanoparticles. 2014 , 136, 15026-33		151	
444	Preparation and cyclic voltammetric dissolution of coreShellShell AgPtAg nanocubes and their comparison in oxygen reduction reaction in alkaline media. 2014, 39, 5528-5536		12	
443	Atomic-Scale Theory and Simulations for Colloidal Metal Nanocrystal Growth. 2014 , 59, 3113-3119		16	
442	Morphology-controlled growth of Pt nanoparticles taking advantage of smaller molecule and inorganic salt. 2014 , 63, 202-208		7	
441	Shape evolution in BrustBchiffrin synthesis of Au nanoparticles. 2014 , 118, 196-199		17	
440	Facile synthesis of platinumfuthenium nanodendrites supported on reduced graphene oxide with enhanced electrocatalytic properties. 2014 , 266, 259-267		32	
439	Exceptional methanol electro-oxidation activity by bimetallic concave and dendritic Pt¶u nanocrystals catalysts. 2014 , 245, 663-670		57	
438	Controlled synthesis of kinked ultrathin ZnS nanorods/nanowires triggered by chloride ions: a case study. 2014 , 10, 1394-402		32	
437	Controlled synthesis of MnFeO nanoparticles and Gd complex-based nanocomposites as tunable and enhanced T/T-weighted MRI contrast agents. 2014 , 2, 4748-4753		34	
436	One-step electroless growth of nano-fibrous platinum catalyst from paint-onPtCl62- solution in poly-(ethylene-glycol). 2014 , 137, 484-488		7	
435	Metallic nanocrystals synthesized in solution: a brief review of crystal shape theory and crystallographic characterization. 2015 , 50, 801-816		3	
434	Direct synthesis of mesostructured carbon nanofibers decorated with silver-nanoparticles as a multifunctional membrane for water treatment. 2015 , 6, 045003		8	
433	Synthesis and Immobilization of Pt Nanoparticles on Amino-Functionalized Halloysite Nanotubes toward Highly Active Catalysts. 2015 , 5, 4		27	
432	Enhancing the methanol tolerance of platinum nanoparticles for the cathode reaction of direct methanol fuel cells through a geometric design. 2015 , 5, 16219		24	
431	Recent Advances in the Synthesis and Electrocatalytic Applications of Platinum-Based Bimetallic Alloy Nanostructures. <i>ChemCatChem</i> , 2015 , 7, 3206-3228	5.2	58	
430	Dynamic Simulation of Oxygen Transport Rates in Highly Ordered Electrodes for Proton Exchange Membrane Fuel Cells. 2015 , 15, 456-462		3	
429	. 2015,		6	
428	Novel platinum-palladium bimetallic nanoparticles synthesized by Dioscorea bulbifera: anticancer and antioxidant activities. 2015 , 10, 7477-90		59	

427	Synthesis of cubic PtPd alloy nanoparticles as anode electrocatalysts for methanol and formic acid oxidation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8642-8	3.6	35
426	Facet-dependent photocatalytic and antibacterial properties of EAg2WO4 crystals: combining experimental data and theoretical insights. <i>Catalysis Science and Technology</i> , 2015 , 5, 4091-4107	5.5	110
425	Ultrathin two-dimensional ∄n2S3 nanocrystals: oriented-attachment growth controlled by metal ions and photoelectrochemical properties. 2015 , 3, 11294-11301		53
424	Ag@TiO2 nanocomposite; synthesis, characterization and its application as a novel and recyclable catalyst for the one-pot synthesis of benzoxazole derivatives in aqueous media. 2015 , 5, 46545-46551		42
423	Recent advances in heterogeneous electrocatalysts for the hydrogen evolution reaction. 2015 , 3, 1494	2-1496	5 2 826
422	ELECTROCHEMISTRY. High-performance transition metal-doped PtNi octahedra for oxygen reduction reaction. 2015 , 348, 1230-4		1307
421	Recent Advances in Carbon Supported Metal Nanoparticles Preparation for Oxygen Reduction Reaction in Low Temperature Fuel Cells. 2015 , 5, 310-348		73
420	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. 2015 , 137, 15036-42		246
419	Investigation of ZnCo2O4-Pt hybrids with different morphologies towards catalytic CO oxidation. <i>Dalton Transactions</i> , 2015 , 44, 21124-30	4.3	5
418	Evolution from small sized Au nanoparticles to hollow Pt/Au nanostructures with Pt nanorods and a mechanistic study. 2015 , 5, 103797-103802		5
417	Depositing Catalyst Layers in Polymer Electrolyte Membrane Fuel Cells: A Review. 2015 , 12,		27
416	Synthesis of poly (2-Methoxyaniline)/sodium dodecyl sulfate film including bimetallic Pt ū u nanoparticles and its application for formic acid oxidation. 2015 , 40, 2182-2192		13
415	An Overview of One-Dimensional Metal Nanostructures for Electrocatalysis. 2015 , 19, 88-121		20
414	A general strategy for the facile synthesis of AuM (M = Pt/Pd) alloyed flowerlike-assembly nanochains for enhanced oxygen reduction reaction. 2015 , 3, 5352-5359		44
413	Atomic layer-by-layer deposition of platinum on palladium octahedra for enhanced catalysts toward the oxygen reduction reaction. 2015 , 9, 2635-47		180
412	Aromaticity driven interfacial synthetic strategy for porous platinum nanostructure: An efficient electrocatalyst for methanol and formic acid oxidation. 2015 , 159, 52-60		14
411	Facile synthesis of PtPd@Silicon nanostructure as an advanced electrocatalyst for direct methanol fuel cells. 2015 , 282, 452-461		27
410	A Platinum Highly Concave Cube with one Leg on each Vertex as an Advanced Nanocatalyst for Electrocatalytic Applications. <i>ChemCatChem</i> , 2015 , 7, 1064-1069	5.2	22

409	Graphene-supported platinum catalysts for fuel cells. <i>Science Bulletin</i> , 2015 , 60, 864-876	20.6	72
408	Topological indices for nanoclusters. 2015 , 99, 73-80		3
407	Controlled synthesis and visible light photocatalytic activity of Bi12GeO20 uniform microcrystals. 2014 , 4, 6298		33
406	Porous hollow carbon spheres for electrode material of supercapacitors and support material of dendritic Pt electrocatalyst. 2015 , 280, 30-38		57
405	Flower-like gold nanostructures electrodeposited on indium tin oxide (ITO) glass as a SERS-active substrate for sensing dopamine. 2015 , 182, 1313-1321		30
404	Controlling structure and porosity in catalytic nanoparticle superlattices with DNA. 2015 , 137, 1658-62		70
403	Recent advancements in Pt and Pt-free catalysts for oxygen reduction reaction. 2015 , 44, 2168-201		1524
402	Graphene-Based Solar-Driven Water-Splitting Devices. 2015 , 215-248		
401	Noble metal-based composite nanomaterials fabricated via solution-based approaches. 2015 , 3, 3182-322	23	82
400	Size-Controlled Synthesis of Platinum@opper Hierarchical Trigonal Bipyramid Nanoframes. Angewandte Chemie, 2015 , 127, 110-115	6	29
399	Catalytic hydrogenation by noble-metal nanocrystals with well-defined facets: a review. <i>Catalysis Science and Technology</i> , 2015 , 5, 2532-2553	5.5	77
398	CHAPTER 9:Nanostructured Carbon Materials for Energy Conversion and Storage. <i>RSC Catalysis Series</i> , 2015 , 445-506	0.3	
397	Concentration-dependent platinum nanoassemblies with morphology-controlled electroactivity and high durability for direct methanol fuel cells. <i>CrystEngComm</i> , 2015 , 17, 6716-6723	3.3	3
396	Facile synthesis of Pt3Ni alloy nanourchins by temperature modulation and their enhanced electrocatalytic properties. 2015 , 645, 309-316		12
395	Hollow palladiumBopper bimetallic nanospheres with high oxygen reduction activity. 2015 , 176, 222-229		20
394	Faceted metal and metal oxide nanoparticles: design, fabrication and catalysis. <i>Nanoscale</i> , 2015 , 7, 1415	.9 0	146
393	EVOLUTION. A four-legged snake from the Early Cretaceous of Gondwana. 2015 , 349, 416-9		64
392	NANOCATALYSTS. Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. 2015 , 349, 412-6		724

391	Trimetallic PtSnRh Wavy Nanowires as Efficient Nanoelectrocatalysts for Alcohol Electrooxidation. <i>ACS Applied Materials & District Science</i> , 2015, 7, 15061-7	9.5	75
390	Continuous crafting of uniform colloidal nanocrystals using an inert-gas-driven microflow reactor. <i>Nanoscale</i> , 2015 , 7, 9731-7	7.7	9
389	All-graphene composite materials for signal amplification toward ultrasensitive electrochemical immunosensing of tumor marker. 2015 , 71, 108-114		55
388	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. <i>Chemical Reviews</i> , 2015 , 115, 3433-67	68.1	907
387	Synthesis of Pt Decorated Copper Oxide Nanoleaves and Its Electrochemical Detection of Glucose. Journal of the Electrochemical Society, 2015 , 162, H392-H396	3.9	14
386	Morphology and size effects on the reduction of silver oxide by hydrogen. 2015 , 212, 1202-1209		6
385	Colorimetric detection of the flux of hydrogen peroxide released from living cells based on the high peroxidase-like catalytic performance of porous PtPd nanorods. 2015 , 71, 456-462		78
384	Electrodeposition of nanoflake Pd structures: structure-dependent wettability and SERS activity. <i>ACS Applied Materials & Discrete Series</i> , 2015, 7, 7129-35	9.5	25
383	Engineering noble metal nanomaterials for environmental applications. <i>Nanoscale</i> , 2015 , 7, 7502-19	7.7	104
382	Synthesis of Pt dendritic nanocubes with enhanced catalytic properties. 2015 , 5, 16497-16500		8
381	Nanocomposites of Gold and Semiconductors. 2015 , 31-91		
3 80	Metal-free catalysts for oxygen reduction reaction. <i>Chemical Reviews</i> , 2015 , 115, 4823-92	68.1	1763
379	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , 2015 , 10, 240-267	17.9	149
378	Surface Profile Control of FeNiPt/Pt Core/Shell Nanowires for Oxygen Reduction Reaction. 2015 , 11, 3545-9		54
377	Nanocrystal engineering of noble metals and metal chalcogenides: controlling the morphology, composition and crystallinity. <i>CrystEngComm</i> , 2015 , 17, 3727-3762	3.3	100
376	Platinum Nanoparticle During Electrochemical Hydrogen Evolution: Adsorbate Distribution, Active Reaction Species, and Size Effect. <i>ACS Catalysis</i> , 2015 , 5, 2376-2383	13.1	81
375	Noble Metal Nanomaterials: Synthetic Routes, Fundamental Properties, and Promising Applications. 2015 , 66, 131-211		12
374	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

373	Nanocatalysis: size- and shape-dependent chemisorption and catalytic reactivity. 2015 , 70, 135-187	237
372	Light-induced synthesis of clean-surface PdPt@Pt coreBhell nanoparticles with excellent electrocatalytic activity. 2015 , 5, 48992-48996	19
371	Density-functional calculations of the conversion of methane to methanol on platinum-decorated sheets of graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26191-7	21
370	Magnetic Beads - Basics and Applications. 2015 , 64, 49-65	3
369	Selective electrocatalysts toward a prototype of the membraneless direct methanol fuel cell. 2014 , 4, 3813	25
368	Metal-Based Composite Nanomaterials. 2015 ,	5
367	Palladium Nanoparticle-Loaded Cellulose Paper: A Highly Efficient, Robust, and Recyclable Self-Assembled Composite Catalytic System. 2015 , 6, 230-8	74
366	Dealloying of mesoporous PtCu alloy film for the synthesis of mesoporous Pt films with high electrocatalytic activity. 2015 , 10, 316-20	21
365	Synthesis of Pd 9 Ru@Pt nanoparticles for oxygen reduction reaction in acidic electrolytes. 2015 , 277, 116-123	25
364	Size-controlled synthesis of platinum-copper hierarchical trigonal bipyramid nanoframes. 2015 , 54, 108-13	141
363	Dual-functional Pt-on-Pd supported on reduced graphene oxide hybrids: peroxidase-mimic activity and an enhanced electrocatalytic oxidation characteristic. 2015 , 134, 132-135	18
362	Performance improvement of passive direct methanol fuel cells with surface-patterned Nafion 6.7 membranes. <i>Applied Surface Science</i> , 2015 , 327, 205-212	14
361	Stellated Ag-Pt bimetallic nanoparticles: an effective platform for catalytic activity tuning. 2014 , 4, 3969	63
360	Temperature-controlled growth of single-crystal Pt nanowire arrays for high performance catalyst electrodes in polymer electrolyte fuel cells. 2015 , 164, 389-395	33
359	Magnetic Bead-Magic Bullet. 2016 , 7,	29
358	Hydrogen Adsorption Properties of Carbon Nanotubes and Platinum Nanoparticles from a New Ammonium-Ethylimidazolium Chloroplatinate Salt. 2016 , 9, 1153-65	2
357	Recent Development of Platinum-Based Nanocatalysts for Oxygen Reduction Electrocatalysis. 2016 , 253-280	2
356	Nanomaterials for Fuel Cell Catalysis. 2016 ,	10

355	Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. 2016 , 31-92		7
354	Manipulating the d-Band Electronic Structure of Platinum-Functionalized Nanoporous Gold Bowls: Synergistic Intermetallic Interactions Enhance Catalysis. 2016 , 28, 5080-5086		33
353	The Effect of Different Carbon Materials on Manganese Oxide-Based LithiumAir Batteries in Ambient Environment. 2016 , 4, 510-516		3
352	Synthesis of nanoparticles by pulsed laser ablation in air: a versatile means for flexible synthesis and separation. 2016 ,		O
351	Explicit Detection of the Mechanism of Platinum Nanoparticle Shape Control by Polyvinylpyrrolidone. 2016 , 120, 7532-7542		29
350	Shape-Controlled Metal Nanocrystals for Heterogeneous Catalysis. 2016 , 7, 327-48		82
349	Development of functional nanostructures and their applications in catalysis and solar cells. <i>Coordination Chemistry Reviews</i> , 2016 , 320-321, 153-180	23.2	36
348	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. 2016 , 779, 156-160		5
347	Room temperature photo-induced deposition of platinum mirrors and nano-layers from simple Pt(II) precursor complexes in waterthethanol solutions. 2016 , 6, 34014-34018		8
346	Synthetic and Spectroscopic Study of the Mechanism of Atomic Layer Deposition of Tin Dioxide. 2016 , 35, 1202-1208		9
345	A Highly Sensitive Amperometric Glucose Biosensor Based on a Nano-cube Cu2O Modified Glassy Carbon Electrode. 2016 , 44, 822-827		4
344	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	17.9	90
343	Hollow porous nanoparticles with Pt skin on a Ag P t alloy structure as a highly active electrocatalyst for the oxygen reduction reaction. 2016 , 4, 8803-8811		93
342	Quantitative Analysis of the Reduction Kinetics Responsible for the One-Pot Synthesis of Pd-Pt Bimetallic Nanocrystals with Different Structures. 2016 , 138, 12263-70		92
341	Pt-Containing Heterogeneous Nanomaterials for Methanol Oxidation and Oxygen Reduction Reactions. 2016 , 93-168		
340	Facile Synthesis of Pt P d Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. <i>ChemNanoMat</i> , 2016 , 2, 1086-1091	3.5	13
339	Nafion functionalized carbon nanohorns as catalyst support for proton exchange membrane fuel cells. 2016 , 70, 26-32		8
338	3D Quantification of Low-Coordinate Surface Atom Density: Bridging Catalytic Activity to Concave Facets of Nanocatalysts in Fuel Cells. 2016 , 12, 6332-6337		4

337	Shaping electrocatalysis through tailored nanomaterials. <i>Nano Today</i> , 2016 , 11, 587-600	17.9	114
336	Melanoma Prevention: Challenges and Progresses in Nanotechnology for Melanoma Prevention and Treatment. 2016 , 480-497		
335	A Facile Method for Synthesizing Dendritic CoreBhell Structured Ternary Metallic Aerogels and Their Enhanced Electrochemical Performances. 2016 , 28, 7928-7934		50
334	Surface-Functionalized Electrospun Titania Nanofibers for the Scavenging and Recycling of Precious Metal Ions. 2016 , 9, 2912-2916		16
333	Synthesis and Characterization of Pt-Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. 2016 , 16, 6644-6649		132
332	Ultrathin PtCu hexapod nanocrystals with enhanced catalytic performance for electro-oxidation reactions. 2016 , 4, 13425-13430		47
331	Electrochemical Characterisation of Platinum Nanoparticles Prepared in a Water-in-Oil Microemulsion in the Presence of Different Modifiers and Metal Precursors. 2016 , 3, 1601-1608		4
330	Ultra-small Tetrametallic Pt-Pd-Rh-Ag Nanoframes with Tunable Behavior for Direct Formic Acid/Methanol Oxidation. 2016 , 12, 5261-5268		42
329	Understanding of the major reactions in solution synthesis of functional nanomaterials. 2016 , 59, 938-9	96	75
328	Platinum Cubic Nanoframes with Enhanced Catalytic Activity and Durability Toward Oxygen Reduction. 2016 , 9, 2855-2861		40
327	One-step synthesis of hollow-like porous palladium sphere with enhanced electrocatalytic performance. 2016 , 185, 468-471		3
326	Green, Nonchemical Route for the Synthesis of ZnO Superstructures, Evaluation of Its Applications toward Photocatalysis, Photoluminescence, and Biosensing. 2016 , 16, 6828-6840		69
325	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
324	Coating Pt-Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. 2016 , 9, 2209-15		31
323	A review of applications of poly(diallyldimethyl ammonium chloride) in polymer membrane fuel cells: From nanoparticles to support materials. 2016 , 37, 1025-1036		10
322	Crystallinity-induced shape evolution of Pt-Ag nanosheets from branched nanocrystals. 2016 , 52, 10547	'-50	13
321	Photocatalytic oxidation of NO over TiO2-Graphene catalyst by UV/H2O2 process and enhanced mechanism analysis. 2016 , 423, 339-346		18
320	Simultaneous tunable structure and composition of PtAg alloyed nanocrystals as superior catalysts. <i>Nanoscale</i> , 2016 , 8, 14971-8	7.7	32

319	Tuning the Photoelectrocatalytic Hydrogen Evolution of Pt-Decorated Silicon Photocathodes by the Temperature and Time of Electroless Pt Deposition. <i>Langmuir</i> , 2016 , 32, 11728-11735	10
318	Engineering Crystal Modifiers: Bridging Classical and Nonclassical Crystallization. 2016 , 28, 8453-8465	74
317	Surface engineering of hierarchical platinum-cobalt nanowires for efficient electrocatalysis. 2016 , 7, 11850	494
316	Shape-Controlled Synthesis of Pt Nanopeanuts. 2016 , 6, 31404	7
315	Rational design and synthesis of noble-metal nanoframes for catalytic and photonic applications. 2016 , 3, 520-533	45
314	Gaseous NH3 Confers Porous Pt Nanodendrites Assisted by Halides. 2016 , 6, 26196	7
313	Glycerol as green hydrogen source for catalytic reduction over anisotropic silver nanoparticles. 2016 , 6, 103471-103477	12
312	Engineering Multimetallic Nanocrystals for Highly Efficient Oxygen Reduction Catalysts. 2016 , 6, 1600236	81
311	Size- and shape-dependent catalytic performances of oxidation and reduction reactions on nanocatalysts. 2016 , 45, 4747-65	399
310	Nanostructured catalysts for electrochemical water splitting: current state and prospects. 2016 , 4, 11973-12	009 90
309	Shape-dependent photocatalytic hydrogen evolution activity over a Pt nanoparticle coupled g-C3N4 photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19457-63	160
308	In situ development of highly concave and composition-confined PtNi octahedra with high oxygen reduction reaction activity and durability. <i>Nano Research</i> , 2016 , 9, 149-157	52
307	Facile synthesis of platinum octahedra and cubes through the manipulation of reduction kinetics. 2016 , 27, 1862-1867	4
306	Capping agent-free highly dispersed noble metal nanoparticles supported in ordered mesoporous carbon with short channels and their catalytic applications. 2016 , 6, 61064-61072	11
305	Cube-like Ag/AgCl fabricated via a photoirradiation method and its substantially boosted plasmonic photocatalytic reactivity by an oxidation@hloridization treatment. 2016 , 6, 47062-47071	5
304	One-Pot Fabrication of Mesoporous Core-Shell Au@PtNi Ternary Metallic Nanoparticles and Their Enhanced Efficiency for Oxygen Reduction Reaction. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 9.5 8, 4739-44	48
303	Platinum-based heterogeneous nanomaterials via wet-chemistry approaches toward electrocatalytic applications. 2016 , 230, 29-53	44
302	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. 2016 , 16, 1467-71	197

(2017-2016)

301	A 3D platform for the morphology modulation of materials: first principles calculations on the thermodynamic stability and surface structure of metal oxides: Co3O4, Fe2O3, and In2O3. 2016 , 24, 025007		46
300	Highly stable and sub-3 nm Ni nanoparticles coated with carbon nanosheets as a highly active heterogeneous hydrogenation catalyst. 2016 , 79, 63-67		17
299	Chemically Engraving Semiconductor Nanowires: Using Three-Dimensional Nanoscale Morphology to Encode Functionality from the Bottom Up. 2016 , 7, 685-92		24
298	Porous single-crystalline AuPt@Pt bimetallic nanocrystals with high mass electrocatalytic activities. 2016 , 7, 3500-3505		53
297	Au-Pd bimetallic nanoparticles anchored on FeO nonenzymatic hybrid nanoelectrocatalyst for simultaneous electrochemical detection of dopamine and uric acid in the presence of ascorbic acid. 2016 , 4, 2561-2569		28
296	Enhanced reactivity of high-index surface platinum hollow nanocrystals. 2016 , 4, 200-208		30
295	TiO2-modified CNx nanowires as a Pt electrocatalyst support with high activity and durability for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1500-6	3.6	14
294	Hollow AgPt/SiO2 nanomaterials with controlled surface morphologies: is the number of Pt surface atoms imperative to optimize catalytic performances?. <i>Catalysis Science and Technology</i> , 2016 , 6, 2162-	2₱₱0	20
293	Influence of the metal loading on the electrocatalytic activity of carbon-supported (100) Pt nanoparticles. 2016 , 20, 1107-1118		6
292	Improvement in CO2 sensing characteristics using Pd nanoparticles decorated La2O3 thin films. 2017 , 49, 76-81		25
291	Catalysts of 3D ordered macroporous ZrO2-supported coreBhell Pt@CeO2\(\mathbb{N}\) nanoparticles: effect of the optimized Pt\(\mathbb{L}\)eO2 interface on improving the catalytic activity and stability of soot oxidation. Catalysis Science and Technology, 2017, 7, 968-981	5.5	21
290	Square wave voltammetry restructuring of platinum nanoparticle at boron doped diamond electrode for enhanced ammonia oxidation. 2017 , 793, 174-183		7
289	Pt nanocrystals selectively shaped by tuning the reductant concentration. 2017 , 189, 80-83		5
288	Porous Iron-Tungsten Carbide Electrocatalyst with High Activity and Stability toward Oxygen Reduction Reaction: From the Self-Assisted Synthetic Mechanism to Its Active-Species Probing. <i>ACS Applied Materials & Applied & Appli</i>	9.5	32
287	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. 2017, 29, 1605997		246
286	Facile Synthesis of Nanoporous Pt-Y alloy with Enhanced Electrocatalytic Activity and Durability. 2017 , 7, 41826		39
285	High-Indexed PtNi Alloy Tetrahexahedral Nanoframes Evolved through Preferential CO Etching. 2017 , 17, 2204-2210		92
284	Nanostructured Materials for Heterogeneous Electrocatalytic CO Reduction and their Related Reaction Mechanisms. 2017 , 56, 11326-11353		588

283	Nanostrukturierte Materialien fil die elektrokatalytische CO2-Reduktion und ihre Reaktionsmechanismen. <i>Angewandte Chemie</i> , 2017 , 129, 11482-11511	5	86
282	Core-Shell Au-Pt Nanoparticles and Nanodendrites for Methanol Oxidation Reaction. 2017 , 1142, 234-237		
281	Electrochemically Shape-Controlled Nanoparticles. 2017, 59-95		1
2 80	One-Dimensional Pt Nanostructures for Polymer Electrolyte Membrane Fuel Cells. 2017 , 145-198		
279	Green synthesis and characterization of polyvinyl alcohol stabilized palladium nanoparticles: effect of solvent on diameter and catalytic activity. 2017 , 8, 025002		8
278	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. 2017 , 29, 1606459		943
277	Trimetallic PtCoFe Alloy Monolayer Superlattices as Bifunctional Oxygen-Reduction and Ethanol-Oxidation Electrocatalysts. 2017 , 13, 1700250		35
276	Atomically thin SiC nanoparticles obtained via ultrasonic treatment to realize enhanced catalytic activity for the oxygen reduction reaction in both alkaline and acidic media. 2017 , 7, 22875-22881		15
275	Insights into the catalytic reduction of organic dyes and antibacterial activity of graphene oxide supported mono and bimetallic nanocomposites. 2017 , 41, 4348-4359		11
274	Enhanced catalytic activity of ppy-coated pencil electrode in the presence of chitosan and Au nanoparticles for hydrogen evolution reaction. 2017 , 21, 2791-2798		12
273	Synthesis and Characterization of Cu3(Sb1\(\text{LAsx}\)S4 Semiconducting Nanocrystal Alloys with Tunable Properties for Optoelectronic Device Applications. 2017 , 29, 573-578		13
272	A comprehensive review of Pt electrocatalysts for the oxygen reduction reaction: Nanostructure, activity, mechanism and carbon support in PEM fuel cells. 2017 , 5, 1808-1825		543
271	Nanocrystal Catalysts of High-Energy Surface and Activity. 2017 , 177, 439-475		2
270	Facile Aqueous Phase Synthesis of Carbon Supported B-doped Pt3Ni Nanocatalyst for Efficient Oxygen Reduction Reaction. 2017 , 246, 242-250		25
269	CO2 gas sensing properties of La2O3 thin films deposited at various substrate temperatures. 2017 , 28, 13112-13119		9
268	Plasmonic nanoparticles and their analytical applications: A review. 2017 , 52, 774-820		53
267	Efficient extraction and separation of palladium (Pd) and ruthenium (Ru) from simulated HLLW by photoreduction. 2017 , 182, 9-18		19
266	Quantum Mechanical Study of N-Heterocyclic Carbene Adsorption on Au Surfaces. 2017 , 121, 2674-2682		23

265 controlled by overpotential. 2017, 187, 141-148 Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. Angewandte Chemie, 2017, 129, 60-98 3.6 264 55 An experimental and theoretical investigation on the optical and photocatalytic properties of ZnS 263 33 nanoparticles. 2017, 103, 179-189 One-pot synthesis of ultrafine decahedral platinum crystal decorated graphite nanosheets for the 262 11 electro-oxidation of formic acid. 2017, 345, 70-77 261 Seed-Mediated Growth of Colloidal Metal Nanocrystals. 2017, 56, 60-95 428 Polyethyleneimine functionalized platinum superstructures: enhancing hydrogen evolution 260 101 performance by morphological and interfacial control. 2017, 8, 8411-8418 Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017, 6, 115-127 259 34 One-Pot Synthesis of Concave Platinum-Cobalt Nanocrystals and Their Superior Catalytic 258 Performances for Methanol Electrochemical Oxidation and Oxygen Electrochemical Reduction. ACS 9.5 50 Applied Materials & Description of the Applied Materials Structural stability and uniformity of magnetic Pt nanoparticles in NaY zeolite. Nanoscale, 2017, 9, 15658-156651 257 Foreign In treatment improving the photoelectrochemical performance of a hematite nanosheet 256 7.7 14 array for water splitting. Nanoscale, 2017, 9, 17513-17523 Counter electrodes in dye-sensitized solar cells. 2017, 46, 5975-6023 255 439 Deconstructing Quinoline-Class Antimalarials to Identify Fundamental Physicochemical Properties 254 of Beta-Hematin Crystal Growth Inhibitors. 2017, 23, 13638-13647 One-step Simultaneous Synthesis of Graphene and Pt Nanoparticles under the Action of Pulsed 253 5 Alternating Current and Electrochemical Performance of Pt/Graphene Catalysts. 2017, 2, 6979-6983 Uniformly dispersed platinum-cobalt alloy nanoparticles with stable compositions on carbon 252 20 substrates for methanol oxidation reaction. 2017, 7, 11421 Electric-field-induced alignment of electrically neutral disk-like particles: modelling and calculation. 251 7 2017, 7, 8449 Fabrication of Trimetallic PtPdto Porous Nanostructures on Reduced Graphene Oxide by Galvanic Replacement: Application to Electrocatalytic Oxidation of Ethylene Glycol. Electroanalysis, 250 11 2017, 29, 2591-2601 Water-Based Synthesis of Sub-10 nm Pt Octahedra and Their Performance towards the Oxygen 249 3.5 14 Reduction Reaction. ChemNanoMat, 2017, 3, 879-884 Writing on Nanocrystals: Patterning Colloidal Inorganic Nanocrystal Films through 248 23 Irradiation-Induced Chemical Transformations of Surface Ligands. 2017, 139, 13250-13259

Kinetic study and growth behavior of template-based electrodeposited platinum nanotubes

247	Photo-enhanced electrocatalysis of sea-urchin shaped Ni3(VO4)2 for the hydrogen evolution reaction. 2017 , 5, 18038-18043		32
246	One-Pot Seedless Aqueous Synthesis of Reduced Graphene Oxide (rGO)-Supported CoreBhell [email´protected] Nanoflowers as Advanced Catalysts for Oxygen Reduction and Hydrogen Evolution. 2017 , 5, 8675-8683		43
245	Isolable C@Fe3O4 nanospheres supported cubical Pd nanoparticles as reusable catalysts for Stille and Mizoroki-Heck coupling reactions. 2017 , 58, 3276-3282		18
244	Platinum nanoparticles in nanobiomedicine. 2017 , 46, 4951-4975		216
243	A high-performance electrochemical dopamine sensor based on a platinumBickel bimetallic decorated poly(dopamine)-functionalized reduced graphene oxide nanocomposite. 2017 , 9, 4566-4573		14
242	Structure of Nanocrystals, Nanoparticles, and Nanotubes. 2017 , 581-652		1
241	A systematic study of the catalytic durability of Pd@Pt2BL nano-sized octahedra toward oxygen reduction. 2017 , 280, 266-273		10
240	An acetic acid refluxing-electrochemistry combined strategy to activate supported-platinum electrocatalysts. 2017 , 30, 111-117		4
239	Anomalous Growth Rate of Ag Nanocrystals Revealed by in situ STEM. 2017 , 7, 16420		4
238	Fabricating Core-Shell WC@C/Pt Structures and its Enhanced Performance for Methanol Electrooxidation. 2017 , 30, 450-456		2
237	Fuel Cells: Hydrogen and Ethanol Technologies. 2017,		2
236	Engineering Surface Ligands of Noble Metal Nanocatalysts in Tuning the Product Selectivity. 2017 , 7, 44		34
235	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. 2018 , 9, 1011		64
234	Monocrystalline platinum-nickel branched nanocages with enhanced catalytic performance towards the hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 5072-5077	7.7	31
233	Pt-Pd Bimetal Popcorn Nanocrystals: Enhancing the Catalytic Performance by Combination Effect of Stable Multipetals Nanostructure and Highly Accessible Active Sites. 2018 , 14, e1703613		24
232	Acetylene-Mediated Synthesis of Supported Pt Nanocatalyst for Selective Hydrogenation of Halonitrobenzene. <i>ChemNanoMat</i> , 2018 , 4, 518-523	3.5	1
231	Enhanced Stability of Pt/M/WC(0001) Multilayer Alloys under Electrochemical Conditions: A First Principle Study. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 15704-15711	9.5	3
230	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

229	Design, Synthesis and Applications of One-Dimensional Chalcogenide Hetero-Nanostructures. Springer Theses, 2018,	Ĺ	2
228	Sub-2 nm Single-Crystal Pt Nanoparticles via Sputtering onto a Liquid Polymer. <i>Langmuir</i> , 2018 , 34, 2876 ₂ 25	881	14
227	Magnetohydrodynamik in der Mikrofluidik. 2018 , 27-56		
226	Ultrathin-Branched Pt Grown on Quasi-Sphere Pd with Enhanced Electrocatalytic Performances. 2018 , 3, 1531-1536		
225	Rapid microwave synthesis and optical activity of highly crystalline platinum nanocubes. 2018 , 8, 71-78		8
224	La0.1Ca0.9MnO3/Co3O4 for oxygen reduction and evolution reactions (ORER) in alkaline electrolyte. 2018 , 22, 1697-1710		9
223	Electrochemical processes on solid shaped nanoparticles with defined facets. 2018 , 47, 715-735		100
222	Controllable synthesis of CoO nanocrystals as efficient catalysts for oxygen reduction reaction. 2018 , 29, 105401		5
221	Size-dependent activity and selectivity of carbon dioxide photocatalytic reduction over platinum nanoparticles. 2018 , 9, 1252		271
220	Manipulation of Pt-Ni Tetrahexahedral Nanoframes Using a Gaseous Etching Method. 2018 , 3, 943-948		3
219	Facile synthesis of 3D flower-like Pt nanostructures on polypyrrole nanowire matrix for enhanced methanol oxidation 2018 , 8, 10367-10375		6
218	Fabrication of highly stable silver nanoparticles with shape-dependent electrochemical efficacy. 2018 , 271, 641-651		16
217	Controlling the size of Pt nanoparticles with a cationic surfactant, CnTABr. <i>CrystEngComm</i> , 2018 , 20, 2010-2015	}	11
216	Dendritic Core-Frame and Frame Multimetallic Rhombic Dodecahedra: A Comparison Study of Composition and Structure Effects on Electrocatalysis of Methanol Oxidation. <i>ChemNanoMat</i> , 2018 , 4, 76-87	5	10
215	Synthesis of PtRu/Ru heterostructure for efficient methanol electrooxidation: The role of extra Ru. Applied Surface Science, 2018 , 433, 279-284	7	21
214	ELECTROCATALYTIC PROCESSES IN ENERGY TECHNOLOGIES. 2018 , 291-341		
213	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. 2018 , 57, 909-913		70
212	Ultrathin Pt I n Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. 2018 , 6, 77-81		41

211	Hydrogen oxidation reaction in alkaline media: From mechanism to recent electrocatalysts. 2018 , 44, 288-303		126
210	Regulations of silver halide nanostructure and composites on photocatalysis. 2018 , 1, 269-299		17
209	Predicting archetypal nanoparticle shapes using a combination of thermodynamic theory and machine learning. <i>Nanoscale</i> , 2018 , 10, 21818-21826	7.7	8
208	Evaluation of photocatalytic and supercapacitor potential of nickel tungstate nanoparticles synthesized by electrochemical method. 2018 , 42, 19934-19944		34
207	Quantitative analysis of the reduction kinetics of a Pt(II) precursor in the context of Pt nanocrystal synthesis 2018, 31, 370-374		8
206	4. Size and shape-controlled synthesis of Ru nanocrystals. 2018 , 199-278		
205	Layered Ternary and Quaternary Transition Metal Chalcogenide Based Catalysts for Water Splitting. 2018 , 8, 551		31
204	Nanostructure Optimization of Platinum-Based Nanomaterials for Catalytic Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
203	Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. Journal of the Electrochemical Society, 2018 , 165, H881-H888	3.9	7
202	Recent advances in electrocatalysts toward the oxygen reduction reaction: the case of PtNi octahedra. <i>Nanoscale</i> , 2018 , 10, 20073-20088	7.7	45
201	Pt-C Interfaces Based on Electronegativity-Functionalized Hollow Carbon Spheres for Highly Efficient Hydrogen Evolution. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 43561-43569	9.5	22
200	Calcination Atmosphere Regulated Morphology and Catalytic Performance of Pt/SiO2 in Gas-phase Oxidative Dehydrogenation of KA-oil. <i>ChemCatChem</i> , 2018 , 10, 5689-5697	5.2	3
199	Controlled Synthesis of PtNi Hexapods for Enhanced Oxygen Reduction Reaction. 2018 , 6, 468		10
198	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
197	Facile synthesis of PtAg octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. 2018 , 33, 3891-3897		1
196	Adsorption Energetics of Atoms and Diatomic Gases with Electrocatalysis Approach towards Hydrogen and Oxygen Evolution Reaction on Pt Surfaces. 2018 , 3, 10515-10525		6
195	Recent Advances on Electrocatalysts for PEM and AEM Fuel Cells. 2018, 51-89		1
194	Shape-Controlled Synthesis of Metal-Organic Frameworks with Adjustable Fenton-Like Catalytic Activity. <i>ACS Applied Materials & Activity (No. 1988)</i> 10, 38051-38056	9.5	24

193 Size and shape-controlled synthesis of Ru nanocrystals. 2018, 3,

192	Synthesis of Platinum Nanocrystals within Iodine Ions Mediated. 2018, 2018, 1-10		1
191	One-Pot Seedless Aqueous Design of Metal Nanostructures for Energy Electrocatalytic Applications. 2018 , 1, 531-547		7
190	Synthesis of Pt nanocrystals with different shapes using the same protocol to optimize their catalytic activity toward oxygen reduction. 2018 , 21, 834-844		44
189	Hybrid Mesoporous Silica/Noble-Metal Nanoparticle MaterialsBynthesis and Catalytic Applications. 2018 , 1, 4386-4400		60
188	3. Shape-controlled metal nanoparticles for electrocatalytic applications. 2018, 103-156		1
187	Recent advances in electrochemical non-enzymatic glucose sensors - A review. 2018 , 1033, 1-34		367
186	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. <i>Chemical Reviews</i> , 2018 , 118, 6409-6455	68.1	467
185	Polymer Electrolyte Fuel Cells. 2018 , 63-89		5
184	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. 2018 , 90, 719-744		27
183	Bimetallic NiMoN Nanowires with a Preferential Reactive Facet: An Ultraefficient Bifunctional Electrocatalyst for Overall Water Splitting. 2018 , 11, 3198-3207		60
182	Rational design and synthesis of bifunctional metal nanocrystals for probing catalytic reactions by surface-enhanced Raman scattering. 2018 , 6, 5353-5362		16
181	Carbon-Supported Single Atom Catalysts for Electrochemical Energy Conversion and Storage. 2018 , 30, e1801995		339
180	Electrocatalysts based on metal@carbon core@shell nanocomposites: An´overview. 2018 , 3, 335-351		52
179	Prospects of Platinum-Based Nanostructures for the Electrocatalytic Reduction of Oxygen. <i>ACS Catalysis</i> , 2018 , 8, 9388-9398	13.1	40
178	Advanced Supporting Materials for Polymer Electrolyte Membrane Fuel Cells. 2018,		1
177	Pt Ni Wavelike Nanowires with High Activity for Oxygen Reduction Reactions. 2018 , 24, 14636-14638		5
176	Morphology Engineering of Au/(PdAg alloy) Nanostructures for Enhanced Electrocatalytic Ethanol Oxidation. 2018 , 35, 1800258		8

175	Nanodendrites of platinum-group metals for electrocatalytic applications. <i>Nano Research</i> , 2018 , 11, 611 1 :61	4033
174	NiFeOx as a Bifunctional Electrocatalyst for Oxygen Reduction (OR) and Evolution (OE) Reaction in Alkaline Media. 2018 , 8, 328	20
173	Carbon Monoxide-Templated Synthesis of Coral-Like Clean PtPd Nanochains as Efficient Oxygen Reduction Catalyst. 2018 , 5, 2403-2408	16
172	The polyol process: a unique method for easy access to metal nanoparticles with tailored sizes, shapes and compositions. 2018 , 47, 5187-5233	237
171	Self-Assembled Metal Zinc Three-Dimensional Microstructures at Room Temperature. 2018 , 53, 1700148	
170	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. 2018 , 24, 16944-169	16393
169	Shape-controlled metal nanoparticles for electrocatalytic applications. 2019 , 4,	13
168	One-Pot Synthesis of Highly Efficient Carbon-Supported Polyhedral Pt3Ni Alloy Nanoparticles for Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2019 , 10, 613-620	5
167	Tailor-Made Pt Catalysts with Improved Oxygen Reduction Reaction Stability/Durability. <i>ACS Catalysis</i> , 2019 , 9, 8622-8645	51
166	Facile Synthesis of IrCu Microspheres Based on Polyol Method and Study on Their Electro-Catalytic Performances to Oxygen Evolution Reaction. <i>Nanomaterials</i> , 2019 , 9,	8
165	Salt-Templated Platinum-Copper Porous Macrobeams for Ethanol Oxidation. 2019 , 9, 662	2
164	Facilitating the CII bond cleavage on sub-10 nm concavity-tunable Rh@Pt coreIhell nanocubes for efficient ethanol electrooxidation. 2019 , 7, 17987-17994	19
163	Terephthalic acid induced binder-free NiCoPDarbon nanocomposite for highly efficient electrocatalysis of hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2019 , 9, 4651-4658	12
162	Facile synthesis of ultrathin PtPd nanosheets for enhanced formic acid oxidation and oxygen reduction reaction. 2019 , 7, 18846-18851	52
161	Preparation of flaky dihydrate zinc oxalate particles by controlled chelating double-jet precipitation. 2019 , 30, 1941-1949	О
160	pl tungsten oxide homojunctions for Vis-NIR light-enhanced electrocatalytic hydrogen evolution. 2019 , 7, 19573-19580	14
159	Size-controlled synthesis of saccharide-based ferrous nanocomposites in coprecipitation system. 2019 , 6, 115023	1
158	. 2019,	0

157	Improvement of Catalytic Activity of Platinum Nanoparticles Decorated Carbon Graphene Composite on Oxygen Electroreduction for Fuel Cells. 2019 , 7, 586	11
156	Facet-Dependent Activity of Co3O4 Catalyst for C3H8 Combustion. <i>ChemCatChem</i> , 2019 , 11, 5570-5579 _{5.2}	16
155	Anisotropic nanomaterials for shape-dependent physicochemical and biomedical applications. 2019 , 48, 5140-5176	97
154	Modulation of oxygen vacancy in tungsten oxide nanosheets for Vis-NIR light-enhanced electrocatalytic hydrogen production and anticancer photothermal therapy. <i>Nanoscale</i> , 2019 , 11, 18183-7819	90 ¹⁰
153	Electrocatalysis of Oxygen Reduction Reaction on Shape-Controlled Pt and Pd Nanoparticles-Importance of Surface Cleanliness and Reconstruction. 2019 , 7, 648	17
152	Electrochemical lictivation effectile oxygen reduction reaction caused by long-time potential cycling process. 2019 , 588, 117273	1
151	Au@PdAg core-shell nanotubes as advanced electrocatalysts for methanol electrooxidation in alkaline media 2019 , 9, 931-939	11
150	Pt-Based electrocatalysts with high atom utilization efficiency: from nanostructures to single atoms. 2019 , 12, 492-517	275
149	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on Ti3C2TXMXene Surface. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H54-H62	29
148	Facile One-Pot Synthesis of Pd@Pt1L Octahedra with Enhanced Activity and Durability toward Oxygen Reduction. 2019 , 31, 1370-1380	29
147	Recent advances in heterogeneous catalytic hydrogenation and dehydrogenation of N-heterocycles. 2019 , 40, 980-1002	43
146	Synthesis and Catalytic Applicability of Pt P d ITO Grown Nano Catalyst: An Excellent Candidate for Reduction of Toxic Hexavalent Chromium. 2019 , 149, 2415-2424	8
145	Bifunctional mechanism of N, P co-doped graphene for catalyzing oxygen reduction and evolution reactions. 2019 , 150, 104701	19
144	Ethanol-Mediated Phase Transfer of Metal Ions and Nanoparticles. 2019 , 35-67	
143	Hydrogen in Palladium and Storage Properties of Related Nanomaterials: Size, Shape, Alloying, and Metal-Organic Framework Coating Effects. 2019 , 20, 1158-1176	44
142	An Introduction to Noble Metal-Based Composite Nanomaterials. 2019 , 1-33	1
141	Nanocomposites Consisting of Chalcogenide Semiconductors and Other Noble Metals. 2019 , 149-192	1
140	Spatiotemporal imaging of electrocatalytic activity on single 2D gold nanoplates electrogenerated chemiluminescence microscopy. 2019 , 10, 4141-4147	35

139	Combined soft lithographic and electrochemical fabrication of nanostructured platinum microelectrode arrays for miniaturized sensor applications. 2019 , 208, 39-46		3
138	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. <i>Chemical Reviews</i> , 2019 , 119, 8972-9073	68.1	148
137	Facile Synthesis of Sea-Urchin-Like Pt and Pt/Au Nanodendrites and Their Enhanced Electrocatalytic Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 5375-5379	5.1	6
136	Nanocomposites Consisting of Silver Sulfide and Noble Metals. 2019 , 193-216		
135	Pt-Containing Ag2SNoble Metal Nanocomposites for Direct Methanol Fuel Cells Operated at High Fuel Concentrations. 2019 , 277-299		
134	Toluene Gas Sensing Properties of Pt-Nanoparticle-Decorated Indium Oxide Nanofibers on a Low-Power Consumable Bridge-Type Micro-Platform. 2019 , 74, 600-606		3
133	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Size-Dependent Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2019 , 11, 2458-2463	5.2	9
132	Ni-bearing nanoporous alumina loaded ultralow-concentrated Pd as robust dual catalyst toward hydrogenation and oxidation reactions. 2019 , 18, 100287		10
131	Temporally-Resolved Ultrafast Hydrogen Adsorption and Evolution on Single Platinum Nanoparticles. 2019 , 91, 4023-4030		19
130	Self-assembled Ag(111) nanostructures induced by Fermi surface nesting. 2019 , 100,		4
129	A Comprehensive Review on the Synthesis, Characterization, and Biomedical Application of Platinum Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	134
128	Design strategies for shape-controlled magnetic iron oxide nanoparticles. 2019 , 138, 68-104		127
127	Nanohybrid Filler-Based Drug-Delivery System. 2019 , 43-79		2
126	Morphological control of hydrothermally synthesized cobalt oxide particles using poly(vinyl pyrrolidone). 2019 , 297, 59-67		7
125	The synergistic effect of light irradiation and interface engineering of the Co(OH)2/MoS2 heterostructure to realize the efficient alkaline hydrogen evolution reaction. 2019 , 299, 618-625		31
124	Well-dispersed Pt nanoparticles on borane-modified graphene oxide and their electrocatalytic performance for oxygen reduction reaction. 2019 , 271, 168-174		4
123	The Effects of Dynamic Transformation on the Formation of Pt-M (M = Ni, Fe) Nanocrystals. 2019 , 4, 13	377-138	321
122	Colloidal Nanocrystals as Building Blocks for Well-Defined Heterogeneous Catalysts. 2019 , 31, 576-596	5	44

(2020-2019)

121	Uniform WMoSx nanoparticles attached graphene nanosheets as highly effective electrocatalyst for oxygen reduction reaction in alkaline medium. 2019 , 224, 186-195		5
120	High resolution transmission electron microscopy and electronic structure theory investigation of platinum nanoparticles on carbon black. 2019 , 150, 041705		11
119	Synthesis of FAl2O3Bupported Pt nanoparticles using Al-based metal-organic framework as medium and their catalytic performance for total propene oxidation and selective nitrobenzene hydrogenation. 2020 , 240, 122146		11
118	Support interaction of Pt/CeO2 and Pt/SiC catalysts prepared by nano platinum colloid deposition for CO oxidation. 2020 , 38, 376-383		18
117	Recent Advances in Electrocatalytic Hydrogen Evolution Using Nanoparticles. <i>Chemical Reviews</i> , 2020 , 120, 851-918	68.1	722
116	. 2020 , 68, 1356-1365		26
115	N-doping induced tensile-strained Pt nanoparticles ensuring an excellent durability of the oxygen reduction reaction. 2020 , 382, 247-255		28
114	Planar polymer electrolyte membrane fuel cells: powering portable devices from hydrogen. 2020 , 4, 439-468		21
113	Facet effect of Pt nanocrystals on catalytical properties toward glycerol oxidation reaction. 2020 , 381, 434-442		13
112	Interfacial parameters of Pt/EAl2O3: A first-principle and MD simulation study. 2020 , 117, 113804		
111	Local structure engineering for active sites in fuel cell electrocatalysts. 2020 , 63, 1543-1556		3
110	Visualizing Heterogeneity of Monodisperse CdSe Nanocrystals by Their Assembly into Three-Dimensional Supercrystals. 2020 , 14, 14989-14998		3
109	Single-molecule mapping of catalytic reactions on heterostructures. <i>Nano Today</i> , 2020 , 34, 100957	17.9	8
108	Revealing high temperature stability of platinum nanocatalysts deposited on graphene oxide by in-situ TEM. 2020 , 170, 110706		3
107	Fabrication of CuOx nanowires@NiMnOx nanosheets core@shell-type electrocatalysts: crucial roles of defect modification and valence states for overall water electrolysis. 2020 , 8, 16463-16476		15
106	Preparation of platinum-silver alloy nanoparticles and their catalytic performance in methanol electro-oxidation. 2020 , 48, 1015-1024		1
105	Microfluidic, One-Batch Synthesis of Pd Nanocrystals on N-Doped Carbon in Surfactant-Free Deep Eutectic Solvents for Formic Acid Electrochemical Oxidation. <i>ACS Applied Materials & Camp; Interfaces</i> , 2020 , 12, 42704-42710	9.5	3
104	One-Step Synthesis of Supported High-Index Faceted Platinum@obalt Nanocatalysts for an Enhanced Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5077-5082	6.1	5

103	From nano to macro: Hierarchical platinum superstructures synthesized using bicontinuous microemulsion for hydrogen evolution reaction. 2020 , 354, 136608		3
102	Advances in Solar Power Generation and Energy Harvesting. Springer Proceedings in Energy, 2020,	0.2	1
101	Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. 2020 , 6, 2257-2271		24
100	Facile synthesis of clean PtAg dendritic nanostructures with enhanced electrochemical properties. 2020 , 7, 1250-1256		4
99	Electrocatalyst engineering and structure-activity relationship in hydrogen evolution reaction: From nanostructures to single atoms. 2020 , 63, 921-948		48
98	Tailored Palladium-Platinum Nanoconcave Cubes as High Performance Catalysts for the Direct Synthesis of Hydrogen Peroxide. <i>ACS Applied Materials & Discrete Synthesis</i> (2020), 12, 6328-6335	9.5	17
97	Multifunctional nanostructured materials for next generation photovoltaics. 2020 , 70, 104480		25
96	Oxygen Reduction Reaction Electrocatalysts for Microbial Fuel Cells. 2020 , 73-96		
95	Nonplatinum-based anode catalyst systems for direct methanol fuel cells. 2020 , 201-256		0
94	Shape-Controlled Synthesis of Concave Pt and Willow-Like Pt Nanocatalysts via Electrodeposition with Hydrogen Adsorption/Desorption and Investigation of Their Electrocatalytic Performances toward Ethanol Oxidation Reaction. 2020 , 8, 6449-6457		9
93	Co-doped Pt Nanowire Networks with Clean Surfaces for Enhanced Oxygen Reduction Reactions. 2020 , 15, 1736-1742		4
92	Bifunctional Au@Pt/Au core@shell Nanoparticles As Novel Electrocatalytic Tags in Immunosensing: Application for Alzheimer's Disease Biomarker Detection. 2020 , 92, 7209-7217		19
91	Photocatalytic properties of supramolecular nanoassociates based on gold and platinum nanoparticles, capped by amphiphilic calix[4]resorcinarenes, towards organic dyes. 2020 , 596, 124700		7
90	Application of Nanofibers Based on Natural Materials as Catalyst in Organic Reactions. 2021 , 94, 1-61		7
89	Support structure-catalyst electroactivity relation for oxygen reduction reaction on platinum supported by two-dimensional titanium carbide. 2021 , 79, 105363		11
88	Isotropic Iodide Adsorption Causes Anisotropic Growth of Copper Microplates. 2021 , 33, 881-891		8
87	Recent advances in Pt-based electrocatalysts for PEMFCs 2021 , 11, 13316-13328		6
86	Colloidal Nanocrystals as Electrocatalysts with Tunable Activity and Selectivity. <i>ACS Catalysis</i> , 2021 , 11, 1248-1295	13.1	26

85	CHAPTER 1:Reducing Agents in Colloidal Nanoparticle Synthesis (an Introduction. <i>RSC Nanoscience and Nanotechnology</i> , 2021 , 1-27		1
84	Electrochemical reduction of CO2 using shape-controlled nanoparticles. 2021 , 155-181		
83	Geometric and electronic properties of AuPt (+ 🛭 0) clusters: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3050-3062	3.6	
82	FeCoP Nanoparticles Embedded in N and P Co-doped Hierarchically Porous Carbon for Efficient Electrocatalytic Water Splitting. <i>ACS Applied Materials & District Research</i> , 13, 8832-8843	9.5	11
81	Using Reduction Kinetics to Control and Predict the Outcome of a Colloidal Synthesis of Noble-Metal Nanocrystals. <i>Inorganic Chemistry</i> , 2021 ,	5.1	5
80	A Novel Impregnation-Reduction Method Combined with Galvanic Replacement for Fabricating Low Cost MEA with High Performance for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 034522	3.9	1
79	Highly Stable PtPdCu Alloy Nanowire Networks as Oxygen Reduction Electrocatalysts. <i>Electrocatalysis</i> , 2021 , 12, 372-380	2.7	1
78	Initial nucleation process in the synthesis of Platinum Nanoparticle from chloroplatinic acid. <i>Nano Today</i> , 2021 , 37, 101093	17.9	3
77	Core-shell Ag P t nanoparticles: A versatile platform for the synthesis of heterogeneous nanostructures towards catalyzing electrochemical reactions. <i>Chinese Chemical Letters</i> , 2021 , 32, 3288-	3288	3
76	Electrochemical Catalysts for Green Hydrogen Energy. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100019	1.6	2
75	A review of energy and environment electrocatalysis based on high-index faceted nanocrystals. <i>Rare Metals</i> , 2021 , 40, 3406-3441	5.5	15
74	Microwave Synthetic Routes for Shape-Controlled Catalyst Nanoparticles and Nanocomposites. <i>Molecules</i> , 2021 , 26,	4.8	5
73	Formation of Pt-Based Alloy Nanoparticles Assisted by Molybdenum Hexacarbonyl. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
72	Single-Particle Catalysis: Revealing Intraparticle Pacemakers in Catalytic H Oxidation on Rh. <i>ACS Catalysis</i> , 2021 , 11, 10020-10027	13.1	4
71	Oxygen Reduction Reaction (ORR). 2021, 133-165		
70	Fine-tuning of Pd-Rh core-shell catalysts by interstitial hydrogen doping for enhanced methanol oxidation. <i>Nano Research</i> , 1	10	2
69	Surfactant-Assisted Synthesis of Pt Nanocubes Using Poly(-isopropylacrylamide) Nanogels. <i>Langmuir</i> , 2021 , 37, 11859-11868	4	1
68	System Theoretical Study on the Effect of Variable Nonmetallic Doping on Improving Catalytic Activity of 2D-TiCO for Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2021 , 11,	5.4	1

67	Anisotropic growth of Pt on Pd nanocube promotes direct synthesis of hydrogen peroxide. <i>Applied Surface Science</i> , 2021 , 562, 150031	6.7	4
66	Versatile roles of silver in Ag-based nanoalloys for antibacterial applications. <i>Coordination Chemistry Reviews</i> , 2021 , 449, 214218	23.2	15
65	Facile morphology-controlled synthesis of ZnO electrocatalysts on coal-based carbon membrane for antibiotics wastewater treatment. <i>Journal of Membrane Science</i> , 2021 , 639, 119734	9.6	2
64	PtRu alloy nanoparticles embedded on C2N nanosheets for efficient hydrogen evolution reaction in both acidic and alkaline solutions. <i>Chemical Engineering Journal</i> , 2022 , 428, 131085	14.7	3
63	Recent trends in nanozymes design: from materials and structures to environmental applications. <i>Materials Chemistry Frontiers</i> ,	7.8	9
62	Sinter-Resistant Platinum Catalyst Supported by Metal©rganic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 921-925	3.6	2
61	Shape-controlled Pt nanocubes directly grown on carbon supports and their electrocatalytic activity toward methanol oxidation. <i>Science Bulletin</i> , 2017 , 62, 943-949	10.6	19
60	Chapter 2:Characterization of Nanoparticles: Advances. <i>RSC Catalysis Series</i> , 2019 , 37-83	0.3	2
59	Controllable assembly of Pd nanosheets: a solution for 2D materials storage. <i>CrystEngComm</i> , 2017 , 19, 3439-3444	3.3	10
58	One-pot synthesis of gold trisoctahedra with high-index facets. <i>Advances in Materials Research</i> (South Korea), 2012 , 1, 1-12		4
57	Shape- and size-controlled synthesis of noble metal nanoparticles. <i>Advances in Materials Research</i> (South Korea), 2014 , 3, 199-216		6
56	Green synthesis: Proposed mechanism and factors influencing the synthesis of platinum nanoparticles. <i>Green Processing and Synthesis</i> , 2020 , 9, 386-398	3.9	33
55	Simple Synthetic Manipulation Allowing for Morphological Diversity of Porphyrin-Based Microcrystals. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 609-612	1.2	3
54	Facile Synthesis of BaWO4Sub-Micron Sized Octahedron via a Microemulsion Method. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 3489-3492	1.2	2
53	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. 2014 , 6, 252		1
52	Concluding Remarks and Future Perspectives. 2012 , 513-523		
51	Role of Surface Oxides on Model Nanocatalysts in Catalytic Activity of CO Oxidation. 2014 , 145-170		
50	Shape-Controlled Nanoparticles: Effect of Shape on Catalytic Activity, Selectivity, and Long-Term Stability. 2014 , 21-43		

(2022-2013)

Controll over the Au@Ag Core-shell Nanoparticle 2D Patterns via Diblock Copolymer Inverse
Micelle Templates and Investigation of the Surface Plasmon Based Optical Property. *Journal of the Korean Chemical Society*, **2013**, 57, 618-624

	Korean Chemical Society, 2013 , 57, 618-624		
48	Nanocomposites Consisting of Silver Sulfide and Noble Metals. 2015 , 93-113		1
47	Nanocomposite-Related Scientific Issues. 2015 , 199-255		
46	Effects of growth angle and solidification rate on crystal growth of precious metal prepared by electron beam floating zone method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 108101	0.6	
45	Growth of Catalytically Active Nanostructures in the Nonequilibrium Epitaxy Regime. <i>Ukrainian Journal of Physics</i> , 2015 , 60, 546-552	0.4	
44	Seeded Mediated Growth for Binary Chalcogenide Heteronanostructures. <i>Springer Theses</i> , 2018 , 23-51	0.1	
43	Oberfl henfunktionalisierung. 2018, 77-101		
42	Crystal structure dependence of the breathing vibration of individual gold nanodisks induced by the ultrafast laser. <i>Applied Optics</i> , 2019 , 58, 213-218	1.7	2
41	Role of Nanostructures in Development of Energy-Efficient Electrochemical Non-enzymatic Glucose Sensors. <i>Springer Proceedings in Energy</i> , 2020 , 199-207	0.2	
40	Electrocatalysts: selectivity and utilization. 2022 , 55-70		
39	Wrinkle facilitated hydrogen evolution reaction of vacancy-defected transition metal dichalcogenide monolayers. <i>Nanoscale</i> , 2021 ,	7.7	1
38	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
37	Oxygen Reduction Reaction Catalysed by Supported Nanoparticles: Advancements and Challenges. <i>ChemCatChem</i> ,	5.2	1
36	Recent Advancement in Pd-Decorated Nanostructures for Its Catalytic and Chemiresistive Gas Sensing Applications: A Review. <i>Topics in Catalysis</i> , 1	2.3	1
35	Coordination environments tune the activity of oxygen catalysis on single atom catalysts: A computational study. <i>Nano Research</i> , 1	10	3
34	Ultra Weak Chemiluminescence Enhanced by Noble Metal Nanoparticle. 2022 , 143-171		
33	Shape-controlled metal nanoparticles for fuel cells applications. 2022, 349-360		О
32	Platinum Nanoparticles in Biomedicine: Preparation, Anti-Cancer Activity, and Drug Delivery Vehicles <i>Frontiers in Pharmacology</i> , 2022 , 13, 797804	5.6	5

31	Applications of Non-precious Transition Metal Oxide Nanoparticles in Electrochemistry. <i>Electroanalysis</i> ,	3	O
30	Designing Sites in Heterogeneous Catalysis: Are We Reaching Selectivities Competitive With Those of Homogeneous Catalysts?. <i>Chemical Reviews</i> , 2022 ,	68.1	13
29	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	
28	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	O
27	Highly efficient and stable Ru nanoparticle electrocatalyst for the hydrogen evolution reaction in alkaline conditions. <i>Catalysis Science and Technology</i> ,	5.5	0
26	Table_1.DOCX. 2018 ,		
25	Improving the functionality of a nanomaterial by biological probes. 2022, 379-418		0
24	Engineering the degree of concavity of one-dimensional Au-Cu alloy nanorods with partial intermetallic compounds by facile wet chemical synthesis <i>Dalton Transactions</i> , 2022 ,	4.3	Ο
23	A General Method for Direct Assembly of Single Nanocrystals. Advanced Optical Materials, 2200179	8.1	1
22	Shape-controlled synthesis of aqueous-based metallic nanocrystals and their catalytic applications. 2022 , 251-274		
21	Silver Nanoparticle-coated Polydopamine-Copper Hybrid Nanoflowers as Ultrasensitive Surface-enhanced Raman Spectroscopy Probes for Detecting Thiol-Containing Molecules. <i>Sensors and Actuators B: Chemical</i> , 2022 , 132246	8.5	О
20	Polydimethylsiloxane Sponge-Supported Metal Nanoparticles as Reusable Catalyst for Continuous Flow Reactions. <i>Nanomaterials</i> , 2022 , 12, 2081	5.4	1
19	Synthesis and Characterization of Pt-Ag Icosahedral Nanocages with Enhanced Catalytic Activity toward Oxygen Reduction. <i>ChemNanoMat</i> ,	3.5	1
18	Electrochemical Detection and Analysis of Various Current Responses of a Single Ag Nanoparticle Collision in an Alkaline Electrolyte Solution. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 7472	6.3	
17	Sonication-assisted synthesis of Ag@AgCl and Ag@AgCl-GO and their photocatalytic performances. <i>Journal of Molecular Structure</i> , 2022 , 1269, 133756	3.4	0
16	Hydrothermally Grown Dual-Phase Heterogeneous Electrocatalysts for Highly Efficient Rechargeable Metal-Air Batteries with Long-Term Stability. 2203663		O
15	First principles study of adsorption and simulation of desorption properties of Pd1NAgx. 2022 , 33, e007	741	0
14	Size-dependent shape distributions of platinum nanoparticles. 2022 , 4, 3978-3986		1

CITATION REPORT

13	Platinum-free electrocatalysts for hydrogen oxidation reaction in alkaline media. 2022, 107877	0
12	Continuous and Scalable Production of Platinum Nanocubes with Uniform and Controllable Sizes in Air-Free Droplet Reactors. 2022 , 126, 8588-8595	1
11	Recyclable CuAg bimetallic nanocatalyst for radical scavenging, dyes removal and antimicrobial applications. 2022 , 137321	0
10	A biocompatible electrochemical sensor based on PtNi alloy nanoparticles-coupled N-GQDs for in situ monitoring of dopamine in glioma cells. 2023 , 27, 101283	O
9	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.	O
8	Adsorbed p -Aminothiophenol Molecules on Platinum Nanoparticles Improve Electrocatalytic Hydrogen Evolution. 2207135	O
7	Minimized thermal effects and strong two-photon absorption of aluminum, silver doped platinum bi-metal nanoparticles. 2023 , 160, 109032	O
6	Anisotropic Heavy-Metal-Free Semiconductor Nanocrystals: Synthesis, Properties, and Applications. 2023 , 123, 3625-3692	0
5	Molecular dynamics simulation of ion dynamics within PEM Fuel Cells. 2023, 816, 140380	O
4	Nanoarchitectonics of Layered Metal Chalcogenides-Based Ternary Electrocatalyst for Water Splitting. 2023 , 16, 1669	O
3	Carbon-Supported and Shape-Controlled PtPd Nanocrystal Synthesis in Flowing Deep Eutectic Solvents for the Methanol Oxidation Reaction. 2023 , 6, 3184-3190	О
2	The mechanism of high electrocatalytic activity and stability of the Pt3Co alloy embedded into the lattice by Au or Rh atoms. 2023 , 29, 1991-2003	O
1	Advances in selective catalytic oxidation of ammonia (NH3-SCO): A review of catalyst structure-activity relationship and design principles. 2023 , 108432	О