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## Alternative energy technologies

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1865	Transparent flexible nanogenerator as self-powered sensor for transportation monitoring. <b>2013</b> , 2, 75-81	147
1864	Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. <b>2013</b> , 5, 1067-73	165
1863	Enhanced electrocatalytic activity for hydrogen evolution reaction from self-assembled monodispersed molybdenum sulfide nanoparticles on an Au electrode. <b>2013</b> , 6, 625-633	333



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1643	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. <b>2015</b> , 54, 14031-5	480
1642	Self-Supported Cobalt Phosphide Mesoporous Nanorod Arrays: A Flexible and Bifunctional Electrode for Highly Active Electrocatalytic Water Reduction and Oxidation. <b>2015</b> , 25, 7337-7347	593
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1637	Electrodeposited Ni-P Alloy Nanoparticle Films for Efficiently Catalyzing Hydrogen- and Oxygen-Evolution Reactions. <b>2015</b> , 1, 558-561	68
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1633	Direct Pen Writing of High-T <sub>c</sub> , Flexible Magnesium Diboride Superconducting Arrays. <b>2015</b> , 27, 3614-9	20
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1631	Porous Molybdenum-Based Hybrid Catalysts for Highly Efficient Hydrogen Evolution. <b>2015</b> , 127, 13120-13124	51
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1626	. <b>2015</b> ,	55
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1563	In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. <b>2015</b> , 1, 244-51	314
1562	Rescaling of metal oxide nanocrystals for energy storage having high capacitance and energy density with robust cycle life. <b>2015</b> , 112, 7914-9	34
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1551	A 0.7Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.3PbTiO <sub>3</sub> -based pyroelectric generator and temperature sensor. <b>2015</b> , 66, 713-716	3
1550	Platinum-cobalt nanocrystals synthesized under different atmospheres for high catalytic performance in methanol electro-oxidation. <b>2015</b> , 3, 10671-10676	21
1549	Facile synthesis of CoX (X = S, P) as an efficient electrocatalyst for hydrogen evolution reaction. <b>2015</b> , 3, 13066-13071	58
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1547	Growth Control of MoS <sub>2</sub> Nanosheets on Carbon Cloth for Maximum Active Edges Exposed: An Excellent Hydrogen Evolution 3D Cathode. <b>2015</b> , 7, 12193-202	139
1546	Influence of electron storing, transferring and shuttling assets of reduced graphene oxide at the interfacial copper doped TiO <sub>2</sub> p-n heterojunction for increased hydrogen production. <b>2015</b> , 7, 7849-57	163
1545	Motion-driven electrochromic reactions for self-powered smart window system. <b>2015</b> , 9, 4757-65	129
1544	Theoretical investigation on coadsorption effect of O <sub>2</sub> and H <sub>2</sub> O on Pt(111) surface. <b>2015</b> , 102, 174-182	7
1543	DFT study of hydrogen storage in Pd-decorated C <sub>60</sub> fullerene. <b>2015</b> , 113, 3531-3544	25
1542	Light-Cured Luminescent Coatings for Photovoltaic Devices. <b>2015</b> , 361-391	1
1541	A New Core/Shell NiAu/Au Nanoparticle Catalyst with Pt-like Activity for Hydrogen Evolution Reaction. <b>2015</b> , 137, 5859-62	229
1540	Synthesis of Ultrafine Pt/Pd Bimetallic Nanoparticles and Their Decoration on MWCNTs for Hydrogen Evolution. <b>2015</b> , 162, H415-H418	23
1539	Impact of large-scale meso- and macropore structures in adenosine-derived affordable noble carbon on efficient reversible oxygen electrocatalytic redox reactions. <b>2015</b> , 3, 11720-11724	25

1538	Ultrathin Two-Dimensional Free-Standing Sandwiched NiFe/C for High-Efficiency Oxygen Evolution Reaction. <b>2015</b> , 7, 9203-10	81
1537	From "Waste to gold" a one-pot method to synthesize ultrafinely dispersed Fe <sub>2</sub> O <sub>3</sub> -based nanoparticles on N-doped carbon for synergistic and efficient water splitting. <b>2015</b> , 3, 11756-11761	48
1536	Reduced Graphene Oxide-Modified Carbon Nanotube/Polyimide Film Supported MoS <sub>2</sub> Nanoparticles for Electrocatalytic Hydrogen Evolution. <b>2015</b> , 25, 2693-2700	99
1535	Phosphorus-modified tungsten nitride/reduced graphene oxide as a high-performance, non-noble-metal electrocatalyst for the hydrogen evolution reaction. <b>2015</b> , 54, 6325-9	443
1534	Pt/Bi Bifunctional Surfaces for CO and Methanol Electro-Oxidation. <b>2015</b> , 119, 8023-8031	18
1533	Phosphorus-Modified Tungsten Nitride/Reduced Graphene Oxide as a High-Performance, Non-Noble-Metal Electrocatalyst for the Hydrogen Evolution Reaction. <b>2015</b> , 127, 6423-6427	112
1532	Cobalt nanoparticles embedded in nitrogen-doped carbon for the hydrogen evolution reaction. <b>2015</b> , 7, 8083-7	158
1531	The non-innocent role of cerium oxide in heterogeneous catalysis: A theoretical perspective. <b>2015</b> , 253, 20-32	39
1530	A miniaturized optical emission spectrometry based on a needle-plate electrode discharge as a light source for room temperature hydrogen sensing with Pt/CNT nanocomposites. <b>2015</b> , 215, 9-14	4
1529	Synthesis of nanostructured clean surface molybdenum carbides on graphene sheets as efficient and stable hydrogen evolution reaction catalysts. <b>2015</b> , 51, 8323-5	121
1528	Quasi-graphene-envelope Fe-doped Ni <sub>2</sub> P sandwiched nanocomposites for enhanced water splitting and lithium storage performance. <b>2015</b> , 3, 9587-9594	53
1527	Two-Dimensional Metal Dichalcogenides and Oxides for Hydrogen Evolution: A Computational Screening Approach. <b>2015</b> , 6, 1577-85	64
1526	Triboelectric charging sequence induced by surface functionalization as a method to fabricate high performance triboelectric generators. <b>2015</b> , 9, 4621-7	160
1525	Catalytic effects of different Ti-based materials on dehydrogenation performances of MgH <sub>2</sub> . <b>2015</b> , 645, S509-S512	46
1524	Radiation-Grafted Polymer Electrolyte Membranes for Water Electrolysis Cells: Evaluation of Key Membrane Properties. <b>2015</b> , 7, 22203-12	41
1523	Efficient visible light-induced photoelectrocatalytic hydrogen production using CdS sensitized TiO <sub>2</sub> nanorods on TiO <sub>2</sub> nanotube arrays. <b>2015</b> , 3, 22218-22226	51
1522	Enhanced photocatalytic hydrogen production in water under visible light using noble metal-free ferrous phosphide as an active cocatalyst. <b>2015</b> , 5, 4964-4967	69
1521	Light-induced synthesis of clean-surface PdPt@Pt core-shell nanoparticles with excellent electrocatalytic activity. <b>2015</b> , 5, 48992-48996	19

1520	Elastic Reduced Graphene Oxide Nanosheets Embedded in Germanium Nanofiber Matrix as Anode Material for High-Performance Li-Ion Battery. <b>2015</b> , 186, 64-70	23
1519	WS 2 nanosheets based on liquid exfoliation as effective electrocatalysts for hydrogen evolution reaction. <b>2015</b> , 167, 271-277	59
1518	Monodispersed PtNi nanoparticles deposited on diamine-alkalized graphene for highly efficient dehydrogenation of hydrous hydrazine at room temperature. <b>2015</b> , 3, 23090-23094	58
1517	Three dimensional nickel oxides/nickel structure by in situ electro-oxidation of nickel foam as robust electrocatalyst for oxygen evolution reaction. <b>2015</b> , 359, 172-176	87
1516	Hydrothermal synthesis of 2D MoS2 nanosheets for electrocatalytic hydrogen evolution reaction. <b>2015</b> , 5, 89389-89396	74
1515	Molecular Chromophore-Catalyst Assemblies for Solar Fuel Applications. <b>2015</b> , 115, 13006-49	352
1514	Metal diselenide nanoparticles as highly active and stable electrocatalysts for the hydrogen evolution reaction. <b>2015</b> , 7, 14813-6	90
1513	Three-Dimensional Heterostructures of MoS2 Nanosheets on Conducting MoO2 as an Efficient Electrocatalyst To Enhance Hydrogen Evolution Reaction. <b>2015</b> , 7, 23328-35	103
1512	Multifunctional polymers with biomimetic compound architectures via nanoporous AAO films for efficient solar energy harvesting in dye-sensitized solar cells. <b>2015</b> , 5, 90103-90110	14
1511	Porous nitrogen-doped carbon-immobilized bimetallic nanoparticles as highly efficient catalysts for hydrogen generation from hydrolysis of ammonia borane. <b>2015</b> , 3, 22807-22815	50
1510	Packaged triboelectric nanogenerator with high durability for severe environments. <b>2015</b> , 7, 18049-53	31
1509	A CNT@MoSe2 hybrid catalyst for efficient and stable hydrogen evolution. <b>2015</b> , 7, 18595-602	140
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1504	Flexible all-solid-state asymmetric supercapacitor assembled using coaxial NiMoO4 nanowire arrays with chemically integrated conductive coating. <b>2015</b> , 178, 429-438	54
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1502	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water. <b>2015</b> , 6, 8064	214
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1497	NiCo <sub>2</sub> S <sub>4</sub> nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. <b>2015</b> , 7, 15122-6	319
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1494	Molybdenum-Carbide-Modified Nitrogen-Doped Carbon Vesicle Encapsulating Nickel Nanoparticles: A Highly Efficient, Low-Cost Catalyst for Hydrogen Evolution Reaction. <b>2015</b> , 137, 15753-9	350
1493	Phase- and morphology-controlled synthesis of cobalt sulfide nanocrystals and comparison of their catalytic activities for hydrogen evolution. <b>2015</b> , 357, 1133-1140	39
1492	Steroid-Derived Naphthoquinoline Asphaltene Model Compounds: Hydriodic Acid Is the Active Catalyst in I <sub>2</sub> -Promoted Multicomponent Cyclocondensation Reactions. <b>2015</b> , 17, 5930-3	9
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1489	Spectroscopic Measurements of the Relative Pt Skin Thicknesses and Porosities of Dealloyed PtM (Ni, Co) Electrocatalysts. <b>2015</b> , 119, 757-765	32
1488	Hollow raspberry-like PdAg alloy nanospheres: High electrocatalytic activity for ethanol oxidation in alkaline media. <b>2015</b> , 278, 69-75	88
1487	A robust hydrogen evolution catalyst based on crystalline nickel phosphide nanoflakes on three-dimensional graphene/nickel foam: high performance for electrocatalytic hydrogen production from pH 0-4. <b>2015</b> , 3, 1941-1946	123
1486	Ammonia borane destabilized by aluminium hydride: A mutual enhancement for hydrogen release. <b>2015</b> , 40, 1047-1053	12
1485	Nanostructured Ti-Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O heterojunction photoelectrode for efficient hydrogen production. <b>2015</b> , 574, 125-131	52

1484	Liquid organic and inorganic chemical hydrides for high-capacity hydrogen storage. <b>2015</b> , 8, 478-512	534
1483	Ni-doped Mo <sub>2</sub> C nanowires supported on Ni foam as a binder-free electrode for enhancing the hydrogen evolution performance. <b>2015</b> , 3, 1863-1867	197
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1481	Hydroisomerization of sustainable feedstock in biomass-to-fuel conversion: a critical review. <b>2015</b> , 39, 741-759	22
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1477	High performance triboelectric nanogenerators based on large-scale mass-fabrication technologies. <b>2015</b> , 11, 304-322	149
1476	A mini review of NiFe-based materials as highly active oxygen evolution reaction electrocatalysts. <b>2015</b> , 8, 23-39	984
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1474	Micro- and Mesoporous Carbide-Derived Carbon/Selenium Cathodes for High-Performance Lithium Selenium Batteries. <b>2015</b> , 5, 1400981	118
1473	A Three-Component Nanocomposite with Synergistic Reactivity for Oxygen Reduction Reaction in Alkaline Solution. <b>2015</b> , 5, 1401186	31
1472	Perpendicularly oriented MoSe <sub>2</sub> /graphene nanosheets as advanced electrocatalysts for hydrogen evolution. <b>2015</b> , 11, 414-9	239
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1470	Evaluation of Unstructured Kinetic Models for the Production of Bioethanol from Banana and Pineapple Wastes. <b>2016</b> , 11,	7
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1468	Two-Dimensional Transition Metal Dichalcogenides for Electrocatalytic Energy Conversion Applications. <b>2016</b> ,	0
1467	Hydrothermal Synthesis of CuWO <sub>4</sub> -Reduced Graphene Oxide Hybrids and Supercapacitor Application. <b>2016</b> , 9, 584-590	10

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1461	Designed Formation of MnO <sub>2</sub> @NiO/NiMoO <sub>4</sub> Nanowires@Nanosheets Hierarchical Structures with Enhanced Pseudocapacitive Properties. <b>2016</b> , 3, 1347-1353	24
1460	The g-C <sub>3</sub> N <sub>4</sub> /C <sub>2</sub> N Nanocomposite: A g-C <sub>3</sub> N <sub>4</sub> -Based Water-Splitting Photocatalyst with Enhanced Energy Efficiency. <b>2016</b> , 17, 2100-4	91
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1454	A bi-functional catalyst for oxygen reduction and oxygen evolution reactions from used baby diapers: Fe <sub>2</sub> O <sub>3</sub> wrapped in P and S dual doped graphitic carbon. <b>2016</b> , 6, 64258-64265	16
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1436	Retracted Article: Enhanced electrocatalytic activity and durability of highly monodisperse Pt@PPy/PANI nanocomposites as a novel catalyst for the electro-oxidation of methanol. <b>2016</b> , 6, 50851-50857	105
1435	Controllable synthesis of three dimensional electrodeposited Co <sub>3</sub> O <sub>4</sub> nanosphere arrays as efficient electrocatalysts for overall water splitting. <b>2016</b> , 6, 52761-52771	42
1434	Photodissociation of water on rutile (110): A wave packet approach based on first principles. <b>2016</b> , 15, 1650013	4
1433	Heterostructure composites of rGO/GeO <sub>2</sub> /PANI with enhanced performance for Li ion battery anode material. <b>2016</b> , 306, 791-800	34
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1429	Ultrafast Spectroscopic Study of Donor-Acceptor Benzodithiophene Light Harvesting Organic Conjugated Polymers. <b>2016</b> , 120, 9088-9096	22
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1426	Highly Efficient and Robust Nickel Phosphides as Bifunctional Electrocatalysts for Overall Water-Splitting. <b>2016</b> , 8, 10826-34	162
1425	High catalytic activity of oxygen-induced (200) surface of Ta <sub>2</sub> O <sub>5</sub> nanolayer towards durable oxygen evolution reaction. <b>2016</b> , 25, 60-67	24
1424	Three dimensional CNTs aerogel/MoS <sub>2</sub> as an electrocatalyst for hydrogen evolution reaction. <b>2016</b> , 194, 16-21	73
1423	Synthesis and efficient visible light photocatalytic H <sub>2</sub> evolution of a metal-free g-C <sub>3</sub> N <sub>4</sub> /graphene quantum dots hybrid photocatalyst. <b>2016</b> , 193, 103-109	173
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1420	Mesoporous cobalt hydroxide prepared using liquid crystal template for efficient oxygen evolution in alkaline media. <b>2016</b> , 207, 177-186	31
1419	In situ Grown Pyramid Structures of Nickel Diselenides Dependent on Oxidized Nickel Foam as Efficient Electrocatalyst for Oxygen Evolution Reaction. <b>2016</b> , 205, 77-84	83
1418	An efficient bifunctional electrocatalyst for water splitting based on cobalt phosphide. <b>2016</b> , 27, 23LT01	43
1417	Structural, electronic, bonding and thermo-elastic properties of orthorhombic and cubic CeO <sub>2</sub> compound. <b>2016</b> , 54, 1-11	4
1416	Self-assembled ultrathin NiCo <sub>2</sub> S <sub>4</sub> nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. <b>2016</b> , 24, 139-147	233
1415	Hierarchical porous reduced graphene oxide/SnO <sub>2</sub> networks as highly stable anodes for lithium-ion batteries. <b>2016</b> , 207, 9-15	57
1414	Versatile nanoporous bimetallic phosphides towards electrochemical water splitting. <b>2016</b> , 9, 2257-2261	409
1413	MnFe O Nanocrystals Wrapped in a Porous Organic Polymer: A Designed Architecture for Water-Splitting Photocatalysis. <b>2016</b> , 22, 15639-15644	24

1412	Electrocatalytic hydrogen evolution using the MS@MoS/rGO (M = Fe or Ni) hybrid catalyst. <b>2016</b> , 52, 11795-11798	31
1411	Role of Ti doping and Al and B vacancies in the dehydrogenation of Al(BH <sub>4</sub> ) <sub>3</sub> . <b>2016</b> , 128, 1651-1662	2
1410	Highly active and stable layered ternary transition metal chalcogenide for hydrogen evolution reaction. <b>2016</b> , 28, 366-372	83
1409	Epitaxy of Radial High-Energy-Faceted Ultrathin TiO <sub>2</sub> Nanosheets onto Nanowires for Enhanced Photoreactivities. <b>2016</b> , 26, 1580-1589	36
1408	Electrocatalysis of layered Group 5 metallic transition metal dichalcogenides (MX <sub>2</sub> , M = V, Nb, and Ta; X = S, Se, and Te). <b>2016</b> , 4, 14241-14253	159
1407	Ceria-Based Materials in Catalysis: Historical Perspective and Future Trends. <b>2016</b> , 50, 209-242	27
1406	Lamellar structured CoSe <sub>2</sub> nanosheets directly arrayed on Ti plate as an efficient electrochemical catalyst for hydrogen evolution. <b>2016</b> , 217, 156-162	42
1405	MoS <sub>2</sub> nanosheet decorated with trace loads of Pt as highly active electrocatalyst for hydrogen evolution reaction. <b>2016</b> , 219, 187-193	52
1404	Metal-organic-framework-derived bi-metallic sulfide on N, S-codoped porous carbon nanocomposites as multifunctional electrocatalysts. <b>2016</b> , 334, 112-119	57
1403	Engineering active sites of two-dimensional MoS <sub>2</sub> nanosheets for improving hydrogen evolution. <b>2016</b> , 3, 1376-1380	21
1402	Siloxene nanosheets: a metal-free semiconductor for water splitting. <b>2016</b> , 4, 15841-15844	49
1401	A cautionary approach in transitioning to 'green' energy technologies and practices is required. <b>2016</b> , 31, 211-23	3
1400	Understanding and manipulating the intrinsic point defect in BiMgAgSb for higher thermoelectric performance. <b>2016</b> , 4, 16834-16840	39
1399	Carbide decorated carbon nanotube electrocatalyst for high-efficiency hydrogen evolution from seawater. <b>2016</b> , 6, 93267-93274	21
1398	A Highly Efficient and Self-Stabilizing Metallic-Glass Catalyst for Electrochemical Hydrogen Generation. <b>2016</b> , 28, 10293-10297	131
1397	Carbon-Coated Nickel Phosphide Nanosheets as Efficient Dual-Electrocatalyst for Overall Water Splitting. <b>2016</b> , 8, 27850-27858	94
1396	Enhanced lithium storage performance of Li <sub>5</sub> Cr <sub>9</sub> Ti <sub>4</sub> O <sub>24</sub> anode by nitrogen and sulfur dual-doped carbon coating. <b>2016</b> , 213, 217-224	16
1395	Salinity Gradients for Sustainable Energy: Primer, Progress, and Prospects. <b>2016</b> , 50, 12072-12094	188

1394	Edge-rich and (N, S)-doped 3D porous graphene as an efficient metal-free electrocatalyst for the oxygen reduction reaction. <b>2016</b> , 6, 90384-90387	22
1393	Self-sacrificial template method of $\text{Mo}_3\text{O}_{10}(\text{C}_6\text{H}_8\text{N})_2 \cdot 2\text{H}_2\text{O}$ to fabricate $\text{MoS}_2$ /carbon-doped $\text{MoO}_2$ nanobelts as efficient electrocatalysts for hydrogen evolution reaction. <b>2016</b> , 216, 397-404	24
1392	Phase-controlled synthesis and comparative study of $\text{Pd}$ and $\text{Pt}$ submicron particles as efficient electrocatalysts for hydrogen evolution. <b>2016</b> , 216, 304-311	15
1391	Self-supported porous Ni-Fe-P composite as an efficient electrocatalyst for hydrogen evolution reaction in both acidic and alkaline medium. <b>2016</b> , 219, 194-203	77
1390	Harnessing Nature's Purple Solar Panels for Photoenergy Conversion. <b>2016</b> , 195-227	1
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1383	Hexagonal $\text{CeO}_2$ nanostructures: an efficient electrode material for supercapacitors. <b>2016</b> , 45, 14352-62	65
1382	Electrodeposited ternary iron-cobalt-nickel catalyst on nickel foam for efficient water electrolysis at high current density. <b>2016</b> , 506, 694-702	28
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1376	One-Step Hydrothermal Deposition of Ni:FeOOH onto Photoanodes for Enhanced Water Oxidation. <b>2016</b> , 1, 624-632	84
1375	Porous MS <sub>2</sub> /MO <sub>2</sub> (M = W, Mo) Nanorods as Efficient Hydrogen Evolution Reaction Catalysts. <b>2016</b> , 6, 6585-6590	67
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1373	MoS <sub>2</sub> yolk-shell microspheres with a hierarchical porous structure for efficient hydrogen evolution. <b>2016</b> , 9, 3038-3047	33
1372	Three-dimensional porous structural MoP <sub>2</sub> nanoparticles as a novel and superior catalyst for electrochemical hydrogen evolution. <b>2016</b> , 328, 551-557	73
1371	Organic derivatives of Mg(BH <sub>4</sub> ) <sub>2</sub> as precursors towards MgB <sub>2</sub> and novel inorganic mixed-cation borohydrides. <b>2016</b> , 45, 14370-7	15
1370	Cobalt nickel phosphide nanoparticles decorated carbon nanotubes as advanced hybrid catalysts for hydrogen evolution. <b>2016</b> , 4, 14675-14686	114
1369	Molecular dynamics simulation to investigate anhydrous phosphoric acid-doped polybenzimidazole. <b>2016</b> , 42, 1444-1451	5
1368	3D Graphene Aerogels Decorated with Cobalt Phosphide Nanoparticles as Electrocatalysts for the Hydrogen Evolution Reaction. <b>2016</b> , 9, 3049-3053	45
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1365	A Copper Porphyrin-Based Conjugated Mesoporous Polymer-Derived Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution. <b>2016</b> , 9, 2365-73	61
1364	Highly nanodispersed Gd-doped Ni/ZSM-5 catalyst for enhanced carbon-resistant dry reforming of methane. <b>2016</b> , 424, 17-26	26
1363	Ni-Decorated Molybdenum Carbide Hollow Structure Derived from Carbon-Coated Metal-Organic Framework for Electrocatalytic Hydrogen Evolution Reaction. <b>2016</b> , 28, 6313-6320	174
1362	Integrated self-charging power unit with flexible supercapacitor and triboelectric nanogenerator. <b>2016</b> , 4, 14298-14306	91
1361	Highly Photoactive and Photo-Stable Spray Pyrolyzed Tenorite CuO Thin Films for Photoelectrochemical Energy Conversion. <b>2016</b> , 163, H1195-H1203	20
1360	Scalable Nanoporous (PtNi)Al Intermetallic Compounds as Highly Active and Stable Catalysts for Oxygen Electroreduction. <b>2016</b> , 8, 32910-32917	21
1359	Direct and continuous strain control of catalysts with tunable battery electrode materials. <b>2016</b> , 354, 1031-1036	369

1358	A highly active and durable CuPdPt/C electrocatalyst for an efficient hydrogen evolution reaction. <b>2016</b> , 4, 15309-15315	27
1357	Phase and Interface Engineering of Platinum-Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. <b>2016</b> , 55, 12859-63	247
1356	The role of ammonia in promoting ammonia borane synthesis. <b>2016</b> , 45, 16433-16440	10
1355	Mechanical and thermal properties of nanocarbon-reinforced aluminum matrix composites at elevated temperatures. <b>2016</b> , 106, 66-73	96
1354	Self-grown MnO <sub>2</sub> nanosheets on carbon fiber paper as high-performance supercapacitors electrodes. <b>2016</b> , 217, 16-23	34
1353	Phase and Interface Engineering of Platinum-Nickel Nanowires for Efficient Electrochemical Hydrogen Evolution. <b>2016</b> , 128, 13051-13055	60
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1351	Vertically aligned oxygen-doped molybdenum disulfide nanosheets grown on carbon cloth realizing robust hydrogen evolution reaction. <b>2016</b> , 3, 1160-1166	46
1350	Visible Light-driven FeTiO <sub>3</sub> /TiO <sub>2</sub> Composite Materials for Pollutant Photodegradation. <b>2016</b> , 45, 1319-1320	4
1349	Hydrogen production by steam reforming of ethanol over Ni-Sr-Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> aerogel catalyst. <b>2016</b> , 424, 342-350	15
1348	Assessing Hubbard-corrected AM05+U and PBEsol+U density functionals for strongly correlated oxides CeO and CeO. <b>2016</b> , 18, 26816-26826	19
1347	Ultrastable nitrogen-doped carbon encapsulating molybdenum phosphide nanoparticles as highly efficient electrocatalyst for hydrogen generation. <b>2016</b> , 8, 17256-17261	62
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1340	Homologous metal-free electrocatalysts grown on three-dimensional carbon networks for overall water splitting in acidic and alkaline media. <b>2016</b> , 4, 12878-12883	60
1339	Nanostructured Li <sub>2</sub> Se cathodes for high performance lithium-selenium batteries. <b>2016</b> , 27, 238-246	39
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1322	Highly Efficient Hydrogen Evolution from Edge-Oriented WSSe Particles on Three-Dimensional Porous NiSe Foam. <b>2016</b> , 16, 7604-7609	109
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1318	Polymer-Embedded Fabrication of Co <sub>2</sub> P Nanoparticles Encapsulated in N,P-Doped Graphene for Hydrogen Generation. <b>2016</b> , 16, 4691-8	252
1317	Novel highly conductive ferroferric oxide/porous carbon nanofiber composites prepared by electrospinning as anode materials for high performance Li-ion batteries. <b>2016</b> , 6, 58529-58540	16
1316	A facile synthesis of reduced Co <sub>3</sub> O <sub>4</sub> nanoparticles with enhanced Electrocatalytic activity for oxygen evolution. <b>2016</b> , 41, 12976-12982	45
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1307	Molybdenum carbide supported by N-doped carbon: Controlled synthesis and application in electrocatalytic hydrogen evolution reaction. <b>2016</b> , 176, 101-105	17
1306	Engineering sulfur vacancies and impurities in NiCo <sub>2</sub> S <sub>4</sub> nanostructures toward optimal supercapacitive performance. <b>2016</b> , 26, 313-323	273
1305	Strategic PbS quantum dot-based multilayered photoanodes for high efficiency quantum dot-sensitized solar cells. <b>2016</b> , 211, 644-651	32

1304	Ternary NiCoP nanosheet arrays: An excellent bifunctional catalyst for alkaline overall water splitting. <b>2016</b> , 9, 2251-2259	255
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1275	Heteronanowires of MoC-MoC as efficient electrocatalysts for hydrogen evolution reaction. <b>2016</b> , 7, 3399-3405	412
1274	Enhanced Supply of Hydroxyl Species in CeO <sub>2</sub> -Modified Platinum Catalyst Studied by in Situ ATR-FTIR Spectroscopy. <b>2016</b> , 6, 2026-2034	44
1273	Performance of cubic ZrO <sub>2</sub> doped CeO <sub>2</sub> : First-principles investigation on elastic, electronic and optical properties of Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> . <b>2016</b> , 671, 208-219	31
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1271	Defect-Rich Metallic Titania (TiO <sub>1.23</sub> )—An Efficient Hydrogen Evolution Catalyst for Electrochemical Water Splitting. <b>2016</b> , 6, 2222-2229	67
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1268	Molybdenum sulfide/graphene-carbon nanotube nanocomposite material for electrocatalytic applications in hydrogen evolution reactions. <b>2016</b> , 9, 837-848	79
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1264	Cobalt phosphide-based electrocatalysts: synthesis and phase catalytic activity comparison for hydrogen evolution. <b>2016</b> , 4, 4745-4754	224
1263	Optimization of biomass-based carbon materials for hydrogen storage. <b>2016</b> , 5, 77-84	34
1262	Probing Ternary Solvent Effect in High V(oc) Polymer Solar Cells Using Advanced AFM Techniques. <b>2016</b> , 8, 4730-8	6
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1257	Small-sized Ni(1 1 1) particles in metal-organic frameworks with low over-potential for visible photocatalytic hydrogen generation. <b>2016</b> , 190, 12-25	107
1256	A review and evaluation of photoelectrode coating materials and methods for photoelectrochemical hydrogen production. <b>2016</b> , 41, 7950-7959	59
1255	Cost-Effective Electrophoretic Deposition of Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals for Photovoltaic Films. <b>2016</b> , 163, H3110-H3115	5
1254	Cu-Pt bimetallic nanoparticles supported metal organic framework-derived nanoporous carbon as a catalyst for hydrogen evolution reaction. <b>2016</b> , 190, 729-736	48
1253	Polyaniline-Reduced Graphene Oxide Hybrid Nanosheets with Nearly Vertical Orientation Anchoring Palladium Nanoparticles for Highly Active and Stable Electrocatalysis. <b>2016</b> , 8, 169-76	54
1252	Cobalt Phosphide Hollow Polyhedron as Efficient Bifunctional Electrocatalysts for the Evolution Reaction of Hydrogen and Oxygen. <b>2016</b> , 8, 2158-65	401
1251	A mini review on nickel-based electrocatalysts for alkaline hydrogen evolution reaction. <b>2016</b> , 9, 28-46	568

1250	Bioelectrogenesis Detection of Inoculums Using Electrochromic Tungsten Oxide and Performance Evaluation in Microbial Fuel Cells. <b>2016</b> , 163, F183-F189	7
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1235	The synergistic effect of co-pyrolysis of oil shale and low density polyethylene mixtures and characterization of pyrolysis liquid. <b>2017</b> , 90, 355-362	11
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1233	Predicting the performance of tungsten in a fusion environment: a literature review. <b>2017</b> , 33, 388-399	55

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1231	Flexible cobalt phosphide network electrocatalyst for hydrogen evolution at all pH values. <b>2017</b> , 10, 1010-1020	63
1230	NiSe <sub>2</sub> pyramids deposited on N-doped graphene encapsulated Ni foam for high-performance water oxidation. <b>2017</b> , 5, 3981-3986	51
1229	Metal-Organic-Framework-Derived Fe-N/C Electrocatalyst with Five-Coordinated Fe-N <sub>x</sub> Sites for Advanced Oxygen Reduction in Acid Media. <b>2017</b> , 7, 1655-1663	359
1228	Electrochemical cycling and beyond: unrevealed activation of MoO for electrochemical hydrogen evolution reactions. <b>2017</b> , 53, 2245-2248	32
1227	Graphene-coated hybrid electrocatalysts derived from bimetallic metal-organic frameworks for efficient hydrogen generation. <b>2017</b> , 5, 5000-5006	62
1226	Intralayered Ostwald Ripening to Ultrathin Nanomesh Catalyst with Robust Oxygen-Evolving Performance. <b>2017</b> , 29, 1604765	237
1225	Cobalt-nitrogen doped 3D porous carbon prepared with self-generated nanoparticles as sacrificial templates for hydrogen generation. <b>2017</b> , 42, 4193-4201	14
1224	In Situ Identification of Photo- and Moisture-Dependent Phase Evolution of Perovskite Solar Cells. <b>2017</b> , 2, 342-348	49
1223	Ni-reduced graphene oxide composite cathodes with new hierarchical morphologies for electrocatalytic hydrogen generation in alkaline media. <b>2017</b> , 7, 704-711	14
1222	Water-evaporation-induced electricity with nanostructured carbon materials. <b>2017</b> , 12, 317-321	428
1221	Efficient water splitting catalyzed by flexible NiP <sub>2</sub> nanosheet array electrodes under both neutral and alkaline solutions. <b>2017</b> , 41, 2154-2159	58
1220	Molybdenum disulfide and Au ultrasmall nanohybrids as highly active electrocatalysts for hydrogen evolution reaction. <b>2017</b> , 5, 4122-4128	36
1219	Metal organic framework derived NiFe@N-doped graphene microtube composites for hydrogen evolution catalyst. <b>2017</b> , 116, 68-76	62
1218	Mechanical and electrical characterization of PVDF-ZnO hybrid structure for application to nanogenerator. <b>2017</b> , 33, 462-468	95
1217	High surface area C/SiO <sub>2</sub> composites from rice husks as a high-performance anode for lithium ion batteries. <b>2017</b> , 311, 1-8	76
1216	Experimental and theoretical study of compositional inhomogeneities in LaNi <sub>5</sub> D <sub>x</sub> owing to temperature gradients and pressure hysteresis, investigated using spatially resolved in-situ neutron diffraction. <b>2017</b> , 42, 6793-6800	9
1215	Novel Flower-like PdAu(Cu) Anchoring on a 3D rGO-CNT Sandwich-stacked Framework for Highly Efficient Methanol and Ethanol Electro-oxidation. <b>2017</b> , 227, 330-344	90

1214	Heterostructured WS <sub>2</sub> -MoS <sub>2</sub> Ultrathin Nanosheets Integrated on CdS Nanorods to Promote Charge Separation and Migration and Improve Solar-Driven Photocatalytic Hydrogen Evolution. <b>2017</b> , 10, 1563-1570	117
1213	Enhanced Methanol Oxidation on Strained Pt Films. <b>2017</b> , 121, 2556-2562	13
1212	The self-activation and synergy of amorphous Re nanoparticle @ Si nanowire composites for the electrocatalytic hydrogen evolution. <b>2017</b> , 228, 268-273	9
1211	Sulfur doped reduced graphene oxide as metal-free catalyst for the oxygen reduction reaction in anion and proton exchange fuel cells. <b>2017</b> , 77, 71-75	59
1210	In situ growth of MoS <sub>2</sub> on carbon nanofibers with enhanced electrochemical catalytic activity for the hydrogen evolution. <b>2017</b> , 42, 9419-9427	18
1209	Competition between Palladium Clusters and Hydrogen to Saturate Graphene Vacancies. <b>2017</b> , 121, 10843-10850	13
1208	Porous hollow MoS <sub>2</sub> microspheres derived from core-shell sulfonated polystyrene microspheres@MoS <sub>2</sub> nanosheets for efficient electrocatalytic hydrogen evolution. <b>2017</b> , 4, 741-747	14
1207	In situ electrochemical surface derivation of cobalt phosphate from a Co(CO)(OH) <sub>2</sub> ·0.11H <sub>2</sub> O nanoarray for efficient water oxidation in neutral aqueous solution. <b>2017</b> , 9, 3752-3756	75
1206	Highly conductive carbon black supported amorphous molybdenum disulfide for efficient hydrogen evolution reaction. <b>2017</b> , 347, 210-219	56
1205	Hydrogen evolution electrocatalysis with binary-nonmetal transition metal compounds. <b>2017</b> , 5, 5995-6012	117
1204	Introduction to biofuel cells: A biological source of energy. <b>2017</b> , 39, 419-425	7
1203	Grain Boundary Engineering for Achieving High Thermoelectric Performance in n-Type Skutterudites. <b>2017</b> , 7, 1602582	146
1202	New benzoselenadiazole-based D <sub>3A</sub> type triarylamine sensitizers for highly efficient dye-sensitized solar cells. <b>2017</b> , 141, 161-168	27
1201	MoS <sub>2</sub> @Ni <sub>3</sub> S <sub>2</sub> Heteronanorods as Efficient and Stable Bifunctional Electrocatalysts for Overall Water Splitting. <b>2017</b> , 7, 2357-2366	705
1200	One-Step Hydrothermal Fabrication of Three-dimensional MoS Nanoflower using Polypyrrole as Template for Efficient Hydrogen Evolution Reaction. <b>2017</b> , 7, 42309	73
1199	PdCu@Pd Nanocube with Pt-like Activity for Hydrogen Evolution Reaction. <b>2017</b> , 9, 8151-8160	79
1198	Theoretical designing and experimental fabricating unique quadruple multimetallic phosphides with remarkable hydrogen evolution performance. <b>2017</b> , 34, 421-427	25
1197	Construction of g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> /ZnO ternary photocatalysts with enhanced photocatalytic performance. <b>2017</b> , 106, 1-9	83

1196	Novel three-dimensional flower-like porous Al <sub>2</sub> O <sub>3</sub> nanosheets anchoring NiS <sub>2</sub> nanoparticles for high-efficiency hydrogen evolution. <b>2017</b> , 348, 246-254	30
1195	Precise tuning in platinum-nickel/nickel sulfide interface nanowires for synergistic hydrogen evolution catalysis. <b>2017</b> , 8, 14580	503
1194	Cobalt nitride as an efficient cocatalyst on CdS nanorods for enhanced photocatalytic hydrogen production in water. <b>2017</b> , 7, 1515-1522	53
1193	A facile approach for the synthesis of hydroxyl-rich microporous organic networks for efficient CO capture and H storage. <b>2017</b> , 53, 2752-2755	33
1192	Highly efficient hydrogen evolution from seawater by a low-cost and stable CoMoP@C electrocatalyst superior to Pt/C. <b>2017</b> , 10, 788-798	450
1191	Catalytic Biodiesel Production Mediated by Amino Acid-Based Protic Salts. <b>2017</b> , 10, 1792-1802	9
1190	Design and Application of Foams for Electrocatalysis. <b>2017</b> , 9, 1721-1743	202
1189	Charge influence on the first dehydrogenation of methanol by Pt (n = -3, q = 0, +1, -1): a computational study. <b>2017</b> , 23, 61	
1188	Sandwich-Like Nanocomposite of CoNiOx/Reduced Graphene Oxide for Enhanced Electrocatalytic Water Oxidation. <b>2017</b> , 27, 1606325	68
1187	Three-dimensional porous graphene-encapsulated CNT@SnO <sub>2</sub> composite for high-performance lithium and sodium storage. <b>2017</b> , 230, 212-221	77
1186	An efficient electrode based on one-dimensional CoMoO <sub>4</sub> nanorods for oxygen evolution reaction. <b>2017</b> , 675, 11-14	38
1185	Nanomaterials: Solar Energy Conversion. <b>2017</b> , 1-33	1
1184	Highly uniform distribution of Pt nanoparticles on N-doped hollow carbon spheres with enhanced durability for oxygen reduction reaction. <b>2017</b> , 7, 6303-6308	26
1183	Interconnected Network of Core-Shell CoP@CoBiPi for Efficient Water Oxidation Electrocatalysis under Near Neutral Conditions. <b>2017</b> , 10, 1370-1374	55
1182	Self-supported rectangular CoP nanosheet arrays grown on a carbon cloth as an efficient electrocatalyst for the hydrogen evolution reaction over a variety of pH values. <b>2017</b> , 41, 2436-2442	20
1181	Self-Assembly of Hierarchical Ni-Mo-Polydopamine Microflowers and their Conversion to a Ni-Mo C/C Composite for Water Splitting. <b>2017</b> , 23, 4644-4650	29
1180	Aluminium doping composite metal-organic framework by alane nanoconfinement: Impact on the room temperature hydrogen uptake. <b>2017</b> , 243, 214-220	12
1179	Comparative study of the structural and optical properties of epitaxial CuFeO <sub>2</sub> and CuFe <sub>1-x</sub> GaxO <sub>2</sub> delafossite thin films grown by pulsed laser deposition methods. <b>2017</b> , 626, 110-116	14

1178	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. <b>2017</b> , 12, 441-446	857
1177	Valence- and element-dependent water oxidation behaviors: in situ X-ray diffraction, absorption and electrochemical impedance spectroscopies. <b>2017</b> , 19, 8681-8693	65
1176	In situ formation of a 3D core/shell structured Ni <sub>3</sub> N@NiBi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <b>2017</b> , 5, 7806-7810	172
1175	Amorphous Molybdenum Sulfide/Carbon Nanotubes Hybrid Nanospheres Prepared by Ultrasonic Spray Pyrolysis for Electrocatalytic Hydrogen Evolution. <b>2017</b> , 13, 1700111	55
1174	Fe <sub>2</sub> P/reduced graphene oxide/Fe <sub>2</sub> P sandwich-structured nanowall arrays: a high-performance non-noble-metal electrocatalyst for hydrogen evolution. <b>2017</b> , 5, 8608-8615	87
1173	Farms of triboelectric nanogenerators for harvesting wind energy: A potential approach towards green energy. <b>2017</b> , 36, 21-29	67
1172	Understanding the role of lithium sulfide clusters in lithium-sulfur batteries. <b>2017</b> , 5, 9293-9298	34
1171	Tridoped Reduced Graphene Oxide as a Metal-Free Catalyst for Oxygen Reduction Reaction Demonstrated in Acidic and Alkaline Polymer Electrolyte Fuel Cells. <b>2017</b> , 1, 1600038	37
1170	Ultrathin Nitrogen-Doped Carbon Coated with CoP for Efficient Hydrogen Evolution. <b>2017</b> , 7, 3824-3831	323
1169	Hybrid of AgInZnS and MoS <sub>2</sub> as efficient visible-light driven photocatalyst for hydrogen production. <b>2017</b> , 42, 12254-12261	22
1168	Nitrogen and fluorine dual-doped porous graphene-nanosheets as efficient metal-free electrocatalysts for hydrogen-evolution in acidic media. <b>2017</b> , 7, 2228-2235	31
1167	In-situ activation of self-supported 3D hierarchically porous Ni <sub>3</sub> S <sub>2</sub> films grown on nanoporous copper as excellent pH-universal electrocatalysts for hydrogen evolution reaction. <b>2017</b> , 36, 85-94	159
1166	Cobalt-Borate Nanoarray: An Efficient and Durable Electrocatalyst for Water Oxidation under Benign Conditions. <b>2017</b> , 9, 15383-15387	26
1165	Defect-Engineered Ultrathin $\gamma$ -MnO <sub>2</sub> Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting. <b>2017</b> , 7, 1700005	373
1164	Advanced oxygen evolution catalysis by bimetallic Ni-Fe phosphide nanoparticles encapsulated in nitrogen, phosphorus, and sulphur tri-doped porous carbon. <b>2017</b> , 53, 6025-6028	41
1163	Pd nanoparticles immobilized on magnetic carbon dots@Fe <sub>3</sub> O <sub>4</sub> nanocubes as a synergistic catalyst for hydrogen generation. <b>2017</b> , 42, 15167-15177	27
1162	Highly active catalyst derived from a 3D foam of Fe(PO)/NiP for extremely efficient water oxidation. <b>2017</b> , 114, 5607-5611	225
1161	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. <b>2017</b> , 29, 1606459	943

1160	Core-shell CoFeO@Co-Fe-Bi nanoarray: a surface-amorphization water oxidation catalyst operating at near-neutral pH. <b>2017</b> , 9, 7714-7718	49
1159	P doped Co <sub>2</sub> Mo <sub>3</sub> Se nanosheets grown on carbon fiber cloth as an efficient hybrid catalyst for hydrogen evolution. <b>2017</b> , 5, 12043-12047	23
1158	Mo incorporated W <sub>18</sub> O <sub>49</sub> nanofibers as robust electrocatalysts for high-efficiency hydrogen evolution. <b>2017</b> , 42, 14534-14546	11
1157	Effect of transition metal Fe adsorption on CeO <sub>2</sub> (110) surface in the methane activation and oxygen vacancy formation: A density functional theory study. <b>2017</b> , 416, 547-564	32
1156	Electron-Doped 1T-MoS <sub>2</sub> via Interface Engineering for Enhanced Electrocatalytic Hydrogen Evolution. <b>2017</b> , 29, 4738-4744	200
1155	Modeling of Bulk Kerogen Porosity: Methods for Control and Characterization. <b>2017</b> , 31, 6004-6018	35
1154	Materials Chemistry of Iron Phosphosulfide Nanoparticles: Synthesis, Solid State Chemistry, Surface Structure, and Electrocatalysis for the Hydrogen Evolution Reaction. <b>2017</b> , 7, 4026-4032	73
1153	NickelCobalt phosphide nanowires supported on Ni foam as a highly efficient catalyst for electrochemical hydrogen evolution reaction. <b>2017</b> , 42, 14124-14132	44
1152	Modeling and Optimization of Cogeneration and Trigeration Systems. <b>2017</b> , 317-397	
1151	Tandem Catalysis for CO Hydrogenation to C-C Hydrocarbons. <b>2017</b> , 17, 3798-3802	124
1150	Facile synthesis of ultrafine Ru nanocrystal supported N-doped graphene as an exceptional hydrogen evolution electrocatalyst in both alkaline and acidic media. <b>2017</b> , 1, 1028-1033	39
1149	Facile solvothermal synthesis of Pt <sub>76</sub> Co <sub>24</sub> nanomyriapods for efficient electrocatalysis. <b>2017</b> , 5, 10554-10560	47
1148	Design of ultralong single-crystal nanowire-based bifunctional electrodes for efficient oxygen and hydrogen evolution in a mild alkaline electrolyte. <b>2017</b> , 5, 10895-10901	20
1147	Different ligand based monodispersed Pt nanoparticles decorated with rGO as highly active and reusable catalysts for the methanol oxidation. <b>2017</b> , 42, 13061-13069	87
1146	MoP/MoC@C: A New Combination of Electrocatalysts for Highly Efficient Hydrogen Evolution over the Entire pH Range. <b>2017</b> , 9, 16270-16279	150
1145	CoO Quantum Dots As a Highly Efficient Oxygen Evolution Reaction Catalyst for Water Splitting. <b>2017</b> , 9, 16159-16167	79
1144	Interdigital electrode based triboelectric nanogenerator for effective energy harvesting from water. <b>2017</b> , 36, 233-240	68
1143	A two-pronged strategy to enhance visible-light-driven overall water splitting via visible-to-ultraviolet upconversion coupling with hydrogen-oxygen recombination inhibition. <b>2017</b> , 212, 23-31	28



1142	One-step electroreductively deposited iron-cobalt composite films as efficient bifunctional electrocatalysts for overall water splitting. <b>2017</b> , 38, 576-584	49
1141	Performance assessment of hybrid power generation systems: Economic and environmental impacts. <b>2017</b> , 132, 418-431	27
1140	Electrochemical hythane production for renewable energy storage and biogas upgrading. <b>2017</b> , 187, 595-600	39
1139	Bionanofiber Assisted Decoration of Few-Layered MoSe Nanosheets on 3D Conductive Networks for Efficient Hydrogen Evolution. <b>2017</b> , 13, 1602866	48
1138	A comprehensive review on unitized regenerative fuel cells: Crucial challenges and developments. <b>2017</b> , 42, 4415-4433	69
1137	Assembling Polyoxo-Titanium Clusters and CdS Nanoparticles to a Porous Matrix for Efficient and Tunable H <sub>2</sub> -Evolution Activities with Visible Light. <b>2017</b> , 29, 1603369	88
1136	Double-Side Co-Catalytic Activation of Anodic TiO <sub>2</sub> Nanotube Membranes with Sputter-Coated Pt for Photocatalytic H <sub>2</sub> Generation from Water/Methanol Mixtures. <b>2017</b> , 12, 314-323	12
1135	Understanding Structure-Dependent Catalytic Performance of Nickel Selenides for Electrochemical Water Oxidation. <b>2017</b> , 7, 310-315	115
1134	Green synthesis of silver nanoparticle using Bambusa arundinacea leaves. <b>2017</b> ,	1
1133	Recent Progress on Integrated Energy Conversion and Storage Systems. <b>2017</b> , 4, 1700104	109
1132	Reaction Mechanisms of the Electrochemical Conversion of Carbon Dioxide to Formic Acid on Tin Oxide Electrodes. <b>2017</b> , 4, 2130-2136	54
1131	A Copper Complex as Catalyst in Proton Reduction. <b>2017</b> , 2017, 3376-3382	11
1130	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. <b>2017</b> , 10, 1487-1492	138
1129	Binder-free prickly nickel nanostructured/reduced graphene oxide composite: A highly efficient electrocatalyst for hydrogen evolution reaction in alkaline solutions. <b>2017</b> , 244, 230-238	29
1128	Component-dependent electrocatalytic activity of PdCu bimetallic nanoparticles for hydrogen evolution reaction. <b>2017</b> , 246, 572-579	40
1127	Prussian Blue Nanocubes with an Open Framework Structure Coated with PEDOT as High-Capacity Cathodes for Lithium-Sulfur Batteries. <b>2017</b> , 29, 1700587	133
1126	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. <b>2017</b> , 11, 7293-7300	271
1125	Facile electrodeposition of cauliflower-like S-doped nickel microsphere films as highly active catalysts for electrochemical hydrogen evolution. <b>2017</b> , 5, 15056-15064	33

1124	Auto-Reduction Behavior of Cobalt on Graphitic Carbon Nitride Coated Alumina Supports for Fischer-Tropsch Synthesis. <b>2017</b> , 9, 4098-4104	14
1123	Unique Structural Design and Strategies for Germanium-Based Anode Materials Toward Enhanced Lithium Storage. <b>2017</b> , 7, 1700488	82
1122	A Plasma-Assisted Route to the Rapid Preparation of Transition-Metal Phosphides for Energy Conversion and Storage. <b>2017</b> , 1, 1700111	27
1121	Black phosphorus: A promising two dimensional visible and near-infrared-activated photocatalyst for hydrogen evolution. <b>2017</b> , 217, 285-292	143
1120	Simultaneous Improvements in Performance and Durability of an Octahedral PtNi <sub>x</sub> /C Electrocatalyst for Next-Generation Fuel Cells by Continuous, Compressive, and Concave Pt Skin Layers. <b>2017</b> , 7, 4642-4654	54
1119	Cascade energy transfer and tunable emission from nanosheet hybrids: locating acceptor molecules through chiral doping. <b>2017</b> , 53, 7072-7075	3
1118	Electrochemical deposition of Pt on carbon fiber cloth utilizing Pt mesh counter electrode during hydrogen evolution reaction for electrocatalytic hydrogenation reduction of p-nitrophenol. <b>2017</b> , 41, 7012-7019	8
1117	Boosting the photocatalytic H <sub>2</sub> evolution activity of Fe <sub>2</sub> O <sub>3</sub> polymorphs (β-Fe <sub>2</sub> O <sub>3</sub> and α-Fe <sub>2</sub> O <sub>3</sub> ) by fullerene [C <sub>60</sub> ]-modification and dye-sensitization under visible light irradiation. <b>2017</b> , 7, 29184-29192	23
1116	Opening Two-Dimensional Materials for Energy Conversion and Storage: A Concept. <b>2017</b> , 7, 1602684	206
1115	Design Strategies toward Advanced MOF-Derived Electrocatalysts for Energy-Conversion Reactions. <b>2017</b> , 7, 1700518	406
1114	Greening the Indian Transport Sector: Role of Biodiesel. <b>2017</b> , 91-104	
1113	Optimizing the hydrogen evolution reaction by shrinking Pt amount in Pt-Ag/SiNW nanocomposites. <b>2017</b> , 42, 15024-15030	24
1112	Au Promoted Nickel-Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. <b>2017</b> , 9, 19807-19814	84
1111	Mesoporous and Skeletal Molybdenum Carbide for Hydrogen Evolution Reaction: Diatomite-Type Structure and Formation Mechanism. <b>2017</b> , 4, 2169-2177	23
1110	In-situ potentiostatic activation to optimize electrodeposited cobalt-phosphide electrocatalyst for highly efficient hydrogen evolution in alkaline media. <b>2017</b> , 681, 90-94	19
1109	Oxide-derived nanostructured metallic-glass electrodes for efficient electrochemical hydrogen generation. <b>2017</b> , 7, 27058-27064	12
1108	Facile Synthesis of Nickel Manganese Composite Oxide Nanomesh for Efficient Oxygen Evolution Reaction and Supercapacitors. <b>2017</b> , 245, 32-40	28
1107	O <sub>2</sub> -functionalized oxygen-deficient Co <sub>3</sub> O <sub>4</sub> nanorods as high performance supercapacitor electrodes and electrocatalysts towards water splitting. <b>2017</b> , 38, 155-166	234

1106	Proposal of Isobutyl Alcohol as Entrainer To Separate Mixtures Formed by Ethanol and Water and 1-Propanol and Water. <b>2017</b> , 62, 2697-2707	2
1105	Bottom-up synthesis of fully sp <sup>2</sup> hybridized three-dimensional microporous graphitic frameworks as metal-free catalysts. <b>2017</b> , 5, 12080-12085	33
1104	A new preparation of a bifunctional crystalline heterogeneous copper electrocatalyst by electrodeposition using a Robson-type macrocyclic dinuclear copper complex for efficient hydrogen and oxygen evolution from water. <b>2017</b> , 46, 9131-9139	11
1103	(0D/3D) MoS <sub>2</sub> on porous graphene as catalysts for enhanced electrochemical hydrogen evolution. <b>2017</b> , 121, 163-169	42
1102	Self-supported nickel phosphosulphide nanosheets for highly efficient and stable overall water splitting. <b>2017</b> , 5, 14865-14872	62
1101	An alkaline electro-activated Fe <sub>3</sub> Ni phosphide nanoparticle-stack array for high-performance oxygen evolution under alkaline and neutral conditions. <b>2017</b> , 5, 13329-13335	102
1100	Impact of nutrient starvation on intracellular biochemicals and calorific value of mixed microalgae. <b>2017</b> , 125, 56-64	33
1099	Nickel phosphide nanoparticles decorated nitrogen and phosphorus co-doped porous carbon as efficient hybrid catalyst for hydrogen evolution. <b>2017</b> , 422, 828-837	31
1098	Cam-based sustainable triboelectric nanogenerators with a resolution-free 3D-printed system. <b>2017</b> , 38, 326-334	39
1097	Molybdenum Disulfide-Black Phosphorus Hybrid Nanosheets as a Superior Catalyst for Electrochemical Hydrogen Evolution. <b>2017</b> , 17, 4311-4316	168
1096	Facile fabrication of robust 3D Fe <sub>3</sub> NiSe nanowires supported on nickel foam as a highly efficient, durable oxygen evolution catalyst. <b>2017</b> , 5, 14639-14645	55
1095	Oxygen Vacancy Engineering of Co O Nanocrystals through Coupling with Metal Support for Water Oxidation. <b>2017</b> , 10, 2875-2879	64
1094	Effect of argon plasma treatment on the output performance of triboelectric nanogenerator. <b>2017</b> , 412, 350-356	48
1093	One-step liquid phase chemical method to prepare carbon-based amorphous molybdenum sulfides: As the effective hydrogen evolution reaction catalysts. <b>2017</b> , 236, 280-287	9
1092	Nanostructural optimization of silicon/PEDOT:PSS hybrid solar cells for performance improvement. <b>2017</b> , 50, 175105	15
1091	Directional Construction of Vertical Nitrogen-Doped 1T-2H MoSe <sub>2</sub> /Graphene Shell/Core Nanoflake Arrays for Efficient Hydrogen Evolution Reaction. <b>2017</b> , 29, 1700748	328
1090	Optimisation of stand-alone hybrid energy systems supplemented by combustion-based prime movers. <b>2017</b> , 196, 18-33	46
1089	Self-assembly of hollow MoS <sub>2</sub> microflakes by one-pot hydrothermal synthesis for efficient electrocatalytic hydrogen evolution. <b>2017</b> , 411, 210-218	13

1088	Highly Crumpled Hybrids of Nitrogen/Sulfur Dual-Doped Graphene and CoS Nanoplates as Efficient Bifunctional Oxygen Electrocatalysts. <b>2017</b> , 9, 12340-12347	87
1087	Green Technologies and Environmental Sustainability. <b>2017</b> ,	12
1086	Functionalised hybrid Poly(ether ether ketone) containing MnO <sub>2</sub> : Investigation of operative conditions for hydrogen sorption. <b>2017</b> , 42, 10089-10098	5
1085	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. <b>2017</b> , 35, 331-340	242
1084	Transportation of hydrogen atom and molecule through X 12 Y 12 nano-cages. <b>2017</b> , 42, 11439-11451	40
1083	Hierarchical NiCoS@NiFe LDH Heterostructures Supported on Nickel Foam for Enhanced Overall-Water-Splitting Activity. <b>2017</b> , 9, 15364-15372	319
1082	In situ surface derivation of an Fe <sub>3</sub> O <sub>4</sub> @Bi layer on an Fe-doped Co <sub>3</sub> O <sub>4</sub> nanoarray for efficient water oxidation electrocatalysis under near-neutral conditions. <b>2017</b> , 5, 6388-6392	65
1081	Heading towards the nZEB through CHP+HP systems. A comparison between retrofit solutions able to increase the energy performance for the heating and domestic hot water production in residential buildings. <b>2017</b> , 138, 61-76	51
1080	Gas-templating of hierarchically structured Ni <sub>3</sub> C@B for efficient electrocatalytic hydrogen evolution. <b>2017</b> , 5, 7564-7570	41
1079	Fabrication of H-TiO <sub>2</sub> /CdS/Cu <sub>2</sub> -xS Ternary Heterostructures for Enhanced Photocatalytic Hydrogen Production. <b>2017</b> , 2, 2681-2686	8
1078	Cobalt-nickel based ternary selenides as high-efficiency counter electrode materials for dye-sensitized solar cells. <b>2017</b> , 235, 672-679	34
1077	High-Performance RhP Electrocatalyst for Efficient Water Splitting. <b>2017</b> , 139, 5494-5502	267
1076	Fe(III) doped NiS <sub>2</sub> nanosheet: a highly efficient and low-cost hydrogen evolution catalyst. <b>2017</b> , 5, 10173-10181	100
1075	A cobalt-borate nanosheet array: an efficient and durable non-noble-metal electrocatalyst for water oxidation at near neutral pH. <b>2017</b> , 5, 7305-7308	66
1074	New insights into high-valence state Mo in molybdenum carbide nanobelts for hydrogen evolution reaction. <b>2017</b> , 42, 10880-10890	20
1073	Successful synthesis of 3D CoSe <sub>2</sub> hollow microspheres with high surface roughness and its excellent performance in catalytic hydrogen evolution reaction. <b>2017</b> , 321, 105-112	48
1072	Effective Construction of High-quality Iron Oxy-hydroxides and Co-doped Iron Oxy-hydroxides Nanostructures: Towards the Promising Oxygen Evolution Reaction Application. <b>2017</b> , 7, 43590	42
1071	Experimental and theoretical insights into sustained water splitting with an electrodeposited nanoporous nickel hydroxide@nickel film as an electrocatalyst. <b>2017</b> , 5, 7744-7748	61

1070	Electrospinning Hetero-Nanofibers of Fe C-Mo C/Nitrogen-Doped-Carbon as Efficient Electrocatalysts for Hydrogen Evolution. <b>2017</b> , 10, 2597-2604	82
1069	Tuning the interface of Ni@Ni(OH) <sub>2</sub> /Pd/rGO catalyst to enhance hydrogen evolution activity and stability. <b>2017</b> , 352, 26-33	32
1068	Polymer-confined growth of perforated MoSe single-crystals on N-doped graphene toward enhanced hydrogen evolution. <b>2017</b> , 9, 4652-4659	24
1067	Performance of niobium nitride-modified AISI316L stainless steel as bipolar plates for direct formic acid fuel cells. <b>2017</b> , 42, 11830-11837	16
1066	Efficient hydrogen evolution catalysis triggered by electrochemically anchored platinum nano-islands on functionalized-MWCNT. <b>2017</b> , 42, 9881-9891	14
1065	Hierarchically Structured 3D Integrated Electrodes by Galvanic Replacement Reaction for Highly Efficient Water Splitting. <b>2017</b> , 7, 1700107	98
1064	Ultrastable hydrogen evolution electrocatalyst derived from phosphide postmodified metal-organic frameworks. <b>2017</b> , 35, 115-120	53
1063	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. <b>2017</b> , 88, 1-48	366
1062	Investigation of Li <sub>5</sub> Cr <sub>7</sub> Ti <sub>6</sub> O <sub>25</sub> as novel anode material for high-power lithium-ion batteries. <b>2017</b> , 43, 7908-7915	5
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1060	Interference effects between hydrogen and ozone in the response of SnO <sub>2</sub> -based gas sensors. <b>2017</b> , 243, 507-515	7
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1058	Current research trends and perspectives on materials-based hydrogen storage solutions: A critical review. <b>2017</b> , 42, 289-311	257
1057	Interfacial interaction in monolayer transition metal dichalcogenide/metal oxide heterostructures and its effects on electronic and optical properties: The case of MX <sub>2</sub> /CeO <sub>2</sub> . <b>2017</b> , 10, 011201	9
1056	A molybdenum disulfide/reduced oxide-graphene nanoflakelet-on-sheet structure for lithium ion batteries. <b>2017</b> , 399, 237-244	13
1055	Ternary NiCo P Nanowires as pH-Universal Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. <b>2017</b> , 29, 1605502	419
1054	Mechanistic Investigation of Water Oxidation Catalyzed by Uniform, Assembled MnO Nanoparticles. <b>2017</b> , 139, 2277-2285	102
1053	Methanol decomposition on low index and stepped CeO <sub>2</sub> surfaces from GGA+ U. <b>2017</b> , 394, 509-518	4

1052	Highly efficient visible-light-driven catalytic hydrogen evolution from ammonia borane using non-precious metal nanoparticles supported by graphitic carbon nitride. <b>2017</b> , 5, 2288-2296	50
1051	Mesoporous nitrogen, sulfur co-doped carbon dots/CoS hybrid as an efficient electrocatalyst for hydrogen evolution. <b>2017</b> , 5, 2717-2723	89
1050	A facile approach to prepare crumpled CoTMPyP/electrochemically reduced graphene oxide nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. <b>2017</b> , 399, 535-541	19
1049	Porous molybdenum carbide microspheres as efficient binder-free electrocatalysts for suspended hydrogen evolution reaction. <b>2017</b> , 42, 6448-6454	20
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1047	Phase engineering of a multiphasic 1T/2H MoS <sub>2</sub> catalyst for highly efficient hydrogen evolution. <b>2017</b> , 5, 2681-2688	262
1046	Large-Scale Synthesis of Graphene-Like MoSe <sub>2</sub> Nanosheets for Efficient Hydrogen Evolution Reaction. <b>2017</b> , 121, 1974-1981	49
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1041	Dual-Functional N Dopants in Edges and Basal Plane of MoS <sub>2</sub> Nanosheets Toward Efficient and Durable Hydrogen Evolution. <b>2017</b> , 7, 1602086	215
1040	H <sub>2</sub> sensing mechanism under different oxygen concentration on the hexagonal WO <sub>3</sub> (001) surface: A density functional theory study. <b>2017</b> , 244, 655-663	16
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1037	Pseudocapacitance-Enhanced High-Rate Lithium Storage in Honeycomb-Like Mn <sub>2</sub> O <sub>3</sub> Anodes. <b>2017</b> , 4, 565-569	16
1036	In Situ Growth of Sn-Doped Ni <sub>3</sub> S <sub>2</sub> Nanosheets on Ni Foam as High-Performance Electrocatalyst for Hydrogen Evolution Reaction. <b>2017</b> , 4, 594-600	48
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1032	Field Effect Enhanced Hydrogen Evolution Reaction of MoS Nanosheets. <b>2017</b> , 29, 1604464	111
1031	Improving Hydrogen Evolution Activity of Earth-Abundant Cobalt-Doped Iron Pyrite Catalysts by Surface Modification with Phosphide. <b>2017</b> , 13, 1603356	51
1030	Hierarchically Structured Cu-Based Electrocatalysts with Nanowires Array for Water Splitting. <b>2017</b> , 121, 25875-25881	42
1029	Highly Active IrOx Nanoparticles/Black Si Electrode for Efficient Water Splitting with Conformal TiO2 Interface Engineering. <b>2017</b> , 5, 10940-10946	22
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1026	Titania coated silica microsphere functionalized with potassium ferrocyanide impregnated in calcium alginate for efficient removal of Cs from aquatic environment. <b>2017</b> , 5, 5187-5195	9
1025	Vertical finger-like asymmetric supercapacitors for enhanced performance at high mass loading and inner integrated photodetecting systems. <b>2017</b> , 5, 22199-22207	24
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1023	Facile synthesis and excellent electrochemical performance of CoP nanowire on carbon cloth as bifunctional electrode for hydrogen evolution reaction and supercapacitor. <b>2017</b> , 60, 1179-1186	34
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1019	Effect of fine layer structure on electrochemistry properties. <b>2017</b> , 804, 185-191	3
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1015	Platinum-Group Metal Grown on Vertically Aligned MoS <sub>2</sub> as Electrocatalysts for Hydrogen Evolution Reaction. <b>2017</b> , 257, 49-55	17
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1009	Graphitized carbon-coated vanadium carbide nanoboscages modified by nickel with enhanced electrocatalytic activity for hydrogen evolution in both acid and alkaline solutions. <b>2017</b> , 5, 23028-23034	56
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981	Acid promoted Ni/NiO monolithic electrode for overall water splitting in alkaline medium. <b>2017</b> , 60, 918-928	20

980	Heterogeneous Bimetallic Phosphide/Sulfide Nanocomposite for Efficient Solar-Energy-Driven Overall Water Splitting. <b>2017</b> , 11, 10303-10312	135
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976	Preparation of Cobalt-Based Electrodes by Physical Vapor Deposition on Various Nonconductive Substrates for Electrocatalytic Water Oxidation. <b>2017</b> , 10, 4699-4703	9
975	Ultrafine Pt Nanoparticle-Decorated Co(OH) <sub>2</sub> Nanosheet Arrays with Enhanced Catalytic Activity toward Hydrogen Evolution. <b>2017</b> , 7, 7131-7135	145
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948	A Metal-Free Covalent Organic Polymer for Electrocatalytic Hydrogen Evolution. <b>2017</b> , 7, 6120-6127	120
947	In Situ Electrochemical Activation of Atomic Layer Deposition Coated MoS <sub>2</sub> Basal Planes for Efficient Hydrogen Evolution Reaction. <b>2017</b> , 27, 1701825	65
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923	Influence of Phosphidation on CoSe <sub>2</sub> Catalyst for Hydrogen Evolution Reaction. <b>2017</b> , 2, 10661-10667	7
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898	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. <b>2017</b> , 29, 1602441	690
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894	Comparative investigation on electrochemical properties of SmMgNi <sub>4</sub> , Sm <sub>2</sub> MgNi <sub>9</sub> and SmNi <sub>5</sub> compounds. <b>2017</b> , 42, 4269-4275	4
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888	Superior Electrochemical Oxygen Evolution Enabled by Three-Dimensional Layered Double Hydroxide Nanosheet Superstructures. <b>2017</b> , 9, 84-88	32
887	Photoelectrochemical CO <sub>2</sub> Reduction to Acetate on Iron-Copper Oxide Catalysts. <b>2017</b> , 7, 177-180	62
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884	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <b>2017</b> , 7, 98-102	362
883	An efficient hydrogen evolution catalyst composed of palladium phosphorous sulphide (PdP~0.33S~1.67) and twin nanocrystal Zn <sub>0.5</sub> Cd <sub>0.5</sub> S solid solution with both homo- and hetero-junctions. <b>2017</b> , 10, 225-235	135
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857	Polydopamine-Derived, In Situ N-Doped 3D Mesoporous Carbons for Highly Efficient Oxygen Reduction. <b>2018</b> , 4, 417-422	15
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365	Promoting Oxygen Evolution Reaction Induced by Synergetic Geometric and Electronic Effects of IrCo Thin-Film Electrocatalysts. 6334-6344	1
364	Electrode material for high performance symmetric supercapacitors based on superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified with cetyltrimethylammonium bromide. <b>2022</b> , 287, 117080	0
363	Bezpieczeństwo energetyczne państwa w obliczu pandemii COVID-19 na przykładzie Republiki Finlandii. <b>2020</b> , 3, 175-190	
362	Platinum nanoclusters by atomic layer deposition on three dimensional TiO <sub>2</sub> nanotube array for efficient hydrogen evolution. <b>2022</b> , 101042	0
361	Ab-initio calculation of electronic, mechanical, optical and phonon properties of ZrXH <sub>3</sub> (X = Co, Ni and Cu): A key towards potential hydrogen storage materials.	1
360	Polydopamine Decorated Ru-Ni(OH) <sub>2</sub> Nanosheets for Enhanced Performance of Hydrogen Evolution in Alkaline Media. 1	
359	Enabling Long Cycle Life and High Rate Iron Difluoride Based Lithium Batteries by In Situ Cathode Surface Modification.. <b>2022</b> , e2201419	3
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357	Optimizing Atomically Dispersed Metal Electrocatalysts for Hydrogen Evolution: Chemical Coordination Effect and Electronic Metal Support Interaction.. <b>2022</b> ,	1
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355	A High-Performance Flag-Type Triboelectric Nanogenerator for Scavenging Wind Energy toward Self-Powered IoTs. <b>2022</b> , 15, 3696	0
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351	Ultrafine PtCoRh Nanorods for Highly Efficient Hydrogen Evolution Reaction in Acid.	0

350	Nanosheet MoS <sub>2</sub> -Decorated MoO <sub>2</sub> on Porous Carbon as Electrodes for Efficient Hydrogen Evolution.	0
349	Constructing Quantum dots sensitized TiO <sub>2</sub> Nanotube p-n Heterojunction for Photoelectrochemical Hydrogen Generation. <b>2022</b> , 137312	1
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343	Simultaneously Enhancing Catalytic Performance and Increasing Density of Bifunctional CuN <sub>3</sub> Active Sites in Dopant-Free 2D C <sub>3</sub> N <sub>3</sub> Cu for Oxygen Reduction/Evolution Reactions.	1
342	Synergistic modulation of inverse spinel Fe <sub>3</sub> O <sub>4</sub> by doping with chromium and nitrogen for efficient electrocatalytic water splitting. <b>2022</b> , 624, 433-442	1
341	Tailoring nanostructured materials based on Graphene monolayers modified with Au heteroatoms for application in energy storage devices: A first principle study. <b>2022</b> , 598, 153771	
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318	Single atoms meet metal-organic frameworks: collaborative efforts for efficient photocatalysis.	7
317	Carbon Nanotubes for Photonics Applications. <b>2022</b> , 1-21	
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308	Nitrogen-Doped CobaltMolybdenum Sulfide Hybrid Heterojunctions as Active Electrocatalysts for Producing Hydrogen in Alkaline Media.	1
307	Effective Nitrogen Incorporation for High-Potential Anthracene Cathodes with Conjugated Frameworks. 2200242	
306	Water-Enabled H <sub>2</sub> Generation from Hydrogenated Silicon Nanosheets for Efficient Anti-Inflammation.	4
305	The Excited State Calculation of Two-Dimensional MoSi <sub>2</sub> N <sub>4</sub> Layered Material Doped with P Respectively for Visible Light Absorption by Gaussian.	
304	RuCo Alloys Anchoring on Hierarchical Oxidized CNT Architectures with Boosted Catalytic Activity for Water Splitting. <b>2022</b> , 140874	0
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267	Efficient band structure tuning of single-layer group IV-N semiconductors for visible-light-driven water splitting. <b>2022</b> , 47, 28869-28878	1
266	Designing multinary noble metal-free catalyst for hydrogen evolution reaction.	2
265	Enhancing electrical conductivity of single-atom doped Co <sub>3</sub> O <sub>4</sub> nanosheet arrays at grain boundary by phosphor doping strategy for efficient water splitting.	1
264	2D hybrid photocatalysts for solar energy harvesting. <b>2022</b> , 33, e00469	3
263	Green biomass processing to lower slurry viscosity and reduce biofuel cost. <b>2022</b> , 165, 106566	
262	Heterostructure engineering of the Fe-doped Ni phosphides/Ni sulfide p-p junction for high-efficiency oxygen evolution. <b>2022</b> , 924, 166613	1
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- 192 Metal single atom doped 2D materials for photocatalysis: Current status and future perspectives. ○
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186	Superhydrophilic Molybdenum Phosphide Quantum Dots on Porous Carbon Matrix for Boosting Hydrogen Evolution Reaction. <b>2022</b> , 140105	0
185	A hydrangea-like superstructure of ZnS@MoS <sub>2</sub> nanosheets as efficient electrocatalyst for hydrogen evolution reaction. <b>2022</b> , 36, 100441	0
184	Correlation of Structures with Proton Conductivity of 1D Coordination Polymers: Higher Proton Conductivity Due to Synergy of Encapsulated Sulfate Ions and Water Molecules.	0
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182	Theoretical study of transition metal atom pairs anchored in g-CN monolayers for ammonia decomposition. <b>2023</b> , 609, 155280	0
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179	Investigation of cobalt alloy L605 as an effective oxygen evolution reaction catalyst. <b>2023</b> , 330, 133397	0
178	Electrochemical fabrication of interleaved vanadium oxide nanosheets coated nickel foam 3D electrode with improved oxygen evolution reaction performance. <b>2023</b> , 330, 133340	0
177	Surface and Lattice Engineered Ruthenium Superstructures towards High-Performance Bifunctional Hydrogen Catalysis.	1
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174	Biofuel Policies in India. <b>2022</b> , 44-64	0
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