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The properties of hydrogen as fuel tomorrow in sustainable energy system for a cleaner planet

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762	Hydrogen Energy. 165-206		5
761	The Role and Future Benefits of Green Energy. 2007 , 4, 65-87		25
760	. 2007 ,		2
759	Key strategies of hydrogen energy systems for sustainability. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 511-524	6.7	100
758	Autothermal reforming of gasoline on Rh-based monolithic catalysts. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 981-991	6.7	81
757	Potential of hydrogen from oil palm biomass as a source of renewable energy worldwide. 2007 , 35, 5692-5701		202
756	Metabolic flux analysis of biological hydrogen production by <i>Escherichia coli</i> . <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3820-3830	6.7	49
755	Comparison of biohydrogen production processes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 279-286	6.7	381
754	Ethanol steam reforming on Ni/Al ₂ O ₃ catalysts: Effect of Mg addition. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3489-3492	6.7	100
753	Photocatalytic reforming of biomass: A systematic study of hydrogen evolution from glucose solution. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6484-6491	6.7	264
752	GC-MS determination of low hydrocarbon species (C ₁ -C ₆) from a diesel partial oxidation reformer. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7074-7083	6.7	7
751	Electrolysis of Water. 2008 , 41-63		8
750	Hydrogen Technology. 2008 ,		33
749	Storage of hydrogen in zeolites. 2008 , 223-260		4
748	. 2009 ,		26

747	The problem of solid state hydrogen storage. 2009 , 34, 2087-2091		157
746	What energy levels can the Earth sustain?. 2009 , 37, 2469-2474		53
745	Hydrogen energy demonstration plant in Patagonia: Description and safety issues. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4684-4691	6.7	28
744	Design of a PEM fuel cell system for residential application. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5242-5248	6.7	121
743	Hydrogen's role in an uncertain energy future. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 31-39	6.7	174
742	MedHySol: Future federator project of massive production of solar hydrogen. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4922-4933	6.7	25
741	The stability of hydrogen evolution activity and corrosion behavior of NiCu coatings with long-term electrolysis in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2089-2094	6.7	101
740	Development of some exergetic parameters for PEM fuel cells for measuring environmental impact and sustainability. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3858-3872	6.7	116
739	Life cycle cost analysis to examine the economical feasibility of hydrogen as an alternative fuel. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4243-4255	6.7	67
738	Kinetic model of homogeneous thermal decomposition of methane and ethane. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3710-3716	6.7	36
737	La _{1-x} Sr _x MO ₃ (M = Mn, Fe) perovskites as materials for thermochemical hydrogen production in conventional and membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7162-7172	6.7	66
736	An evaluation of the potential of the use of wasted hydroelectric capacity to produce hydrogen to be used in fuel cells in order to decrease CO ₂ emissions in Brazil. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7898-7902	6.7	16
735	The stability of NiCoZn electrocatalyst for hydrogen evolution activity in alkaline solution during long-term electrolysis. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7910-7918	6.7	65
734	Study of sensitivity and response kinetics changes for SnO ₂ thin-film hydrogen sensors. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8438-8443	6.7	51
733	Metabolic flux analysis of the hydrogen production potential in <i>Synechocystis</i> sp. PCC6803. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8828-8838	6.7	28
732	Ethanol steam reforming on Mg- and Ca-modified Cu ₂ Ni/SBA-15 catalysts. 2009 , 146, 63-70		90
731	Valorisation of wastepaper using the fibrolytic/hydrogen producing bacterium <i>Ruminococcus albus</i> . 2009 , 100, 5928-33		28
730	Protein engineering of the transcriptional activator FhIA To enhance hydrogen production in <i>Escherichia coli</i> . 2009 , 75, 5639-46		28

729	Catalyst Design for Reforming of Oxygenates. 171-233		1
728	Properties and applications of perovskite proton conductors. 2010 , 13, 385-394		119
727	Biohydrogen Production from Biomass and Wastes via Dark Fermentation: A Review. 2010 , 1, 21-39		250
726	References. 2010 , 321-352		
725	Promoting effect of small amount of Fe addition onto Co catalyst supported on γ -Al ₂ O ₃ for steam reforming of ethanol. 2010 , 383, 96-101		41
724	Effect of H ₂ /O ₂ addition in increasing the thermal efficiency of a diesel engine. 2010 , 89, 378-383		104
723	La _{1-x} Sr _x FeO ₃ perovskites as redox materials for application in a membrane reactor for simultaneous production of pure hydrogen and synthesis gas. 2010 , 89, 1265-1273		100
722	Hydrogen production from ethanol steam reforming over cerium and nickel based oxyhydrides. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12741-12750	6.7	36
721	Influence of solids retention time on continuous H ₂ production using membrane bioreactor. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 52-60	6.7	37
720	Combustion characteristics of natural gas/hydrogen hybrid fuel turbulent diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2556-2565	6.7	40
719	Influence of Sr-doping on the photocatalytic activities of CdS/ZnS solid solution photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2048-2057	6.7	114
718	Application of a modified Anaerobic Digestion Model 1 version for fermentative hydrogen production from sweet sorghum extract by <i>Ruminococcus albus</i> . <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3423-3432	6.7	31
717	Structured reactors as alternative to pellets catalyst for propane oxidative steam reforming. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9810-9817	6.7	21
716	Sequential simulation of dense oxygen permeation membrane reactor for hydrogen production from oxidative steam reforming of ethanol with ASPEN PLUS. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 6691-6698	6.7	24
715	Biological hydrogen production: Simultaneous saccharification and fermentation with nitrogen and phosphorus removal from wastewater effluent. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9611-9617	6.7	5
714	Effect of hydroxy (HHO) gas addition on performance and exhaust emissions in compression ignition engines. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11366-11372	6.7	92
713	Hydrogen production potential of APEX fusion transmuted fueled minor actinide fluoride. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10190-10201	6.7	6
712	Preparation, characterization and application of alkaline leached CuNiZn ternary coatings for long-term electrolysis in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10045-10049	6.7	52

711	Multi-walled carbon nanotube-doped tungsten oxide thin films for hydrogen gas sensing. 2010 , 10, 7705-15	82
710	Optimization approach for kinetics parameters determination for oil palm waste steam gasification with in-situ CO ₂ capture for hydrogen production. 2011 ,	1
709	Photocatalytic hydrogen evolution under highly basic conditions by using Ru nanoparticles and 2-phenyl-4-(1-naphthyl)quinolinium ion. 2011 , 133, 16136-45	91
708	Gasochromic Performance of WO ₃ Nanorod Thin Films for Low Concentration H ₂ Sensing. 2011 , 25, 1065-10686	
707	High Performance Low Temperature Methanol-Water Plasma Reforming. 2011 , 6, 344-359	2
706	Recent advances in production of hydrogen from biomass. 2011 , 52, 1778-1789	246
705	Comparative study of NiLaZr and CoLaZr catalysts for hydrogen production by ethanol steam reforming: Effect of CO ₂ injection to the gas reactants. Evidence of Rh role as a promoter. 2011 , 407, 204-210	21
704	Behavior of heteroatom compounds in hydrothermal gasification of biowaste for hydrogen production. 2011 , 88, 4874-4878	23
703	Exergy analysis of a high pressure multistage hydrogen gas storage system. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11440-11450	6.7 11
702	Fabrication of monodisperse precursor gel microspheres for hollow glass microspheres by combining the sol-microemulsion-gel process with a T-shaped microfluidic device. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9758-9766	6.7 22
701	Improving the performance of a gasoline engine with the addition of hydrogen-oxygen mixtures. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11164-11173	6.7 30
700	Fabrication and characterization of NiCoZnM (M: Ag, Pd and Pt) electrocatalysts as cathode materials for electrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12079-12087	6.7 80
699	Hydrogen production from acid hydrolyzed molasses by the hydrogen overproducing <i>Escherichia coli</i> strain HD701 and subsequent use of the waste bacterial biomass for biosorption of Cd(II) and Zn(II). <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14381-14390	6.7 29
698	Electrooxidation of H ₂ /CO on carbon-supported PtRu-MoO nanoparticles for polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14590-14598	6.7 25
697	A novel technique to fabricate horizontally aligned CNT nanostructure film for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15919-15926	6.7 10
696	Simulation of hybrid biomass gasification using Aspen plus: A comparative performance analysis for food, municipal solid and poultry waste. 2011 , 35, 3962-3969	199
695	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. 2011 , 4, 2754	159
694	Electrocatalytic hydrogen evolution reaction on microwave assisted sol-gel-derived carbon ceramic electrodes modified with metalophthalocyanines. 2011 , 652, 32-36	11

693	Sustainability aspects of hydrogen and fuel cell systems. 2011 , 15, 137-146		55
692	Experimental study on a spark ignition engine fueled by CH ₄ /H ₂ (70/30) and LPG. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9260-9266	6.7	14
691	Comparative life cycle assessment of three biohydrogen pathways. 2011 , 102, 2684-94		60
690	The hydrogen issue. 2011 , 4, 21-36		594
689	Experimental results of an air-cooled lab-scale H ₂ storage tank based on sodium alanate. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3556-3565	6.7	21
688	Escherichia coli hydrogenase activity and H ₂ production under glycerol fermentation at a low pH. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 4323-4331	6.7	59
687	Effect of substrate concentration on fermentative hydrogen production from sweet sorghum extract. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 4843-4851	6.7	45
686	Technical and financial study of the development in Venezuela of the hydrogen energy system. 2011 , 36, 3114-3123		7
685	OPTICAL SENSING PROPERTIES OF WO ₃ NANOSTRUCTURED THIN FILMS ON SAPPHIRE SUBSTRATE TOWARD HYDROGEN. 2012 , 24, 123-129		2
684	Evaluation of Hydrogen Combustors for Gas Turbines. 2012 ,		
683	Photocatalytic hydrogen evolution from carbon-neutral oxalate with 2-phenyl-4-(1-naphthyl)quinolinium ion and metal nanoparticles. 2012 , 14, 10564-71		31
682	Electrocatalytic pathways towards sustainable fuel production from water and CO ₂ . 2012 , 256, 2571-2600		123
681	Investigating the water in hydrated sPEEK membranes using multiple quantum filtered 2H NMR spectroscopy. 2012 , 116, 14724-30		7
680	Development of a biohydrogen economy in the United States, China, Japan, and India: With discussion of a chicken-and-egg debate. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15736-15745 ^{6.7}		27
679	Mesophilic fermentative hydrogen production from sago starch-processing wastewater using enriched mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15588-15597	6.7	40
678	Hydrogen Peroxide as a Sustainable Energy Carrier: Electrocatalytic Production of Hydrogen Peroxide and the Fuel Cell. 2012 , 82, 493-511		176
677	Electrochemical and Optical Properties of Magnesium-Alloy Hydrides Reviewed. 2012 , 2, 1410-1433		16
676	CeNi mixed oxide as efficient catalyst for H ₂ production and nanofibrous carbon material from ethanol in the presence of water. 2012 , 2, 9626		29

675	Multiple and reversible hydrogenases for hydrogen production by Escherichia coli: dependence on fermentation substrate, pH and the F(0)F(1)-ATPase. 2012 , 47, 236-49		79
674	Photocatalytic Hydrogen Evolution Using 9-Phenyl-10-methyl-acridinium Ion Derivatives as Efficient Electron Mediators and Ru-Based Catalysts. 2012 , 65, 1573		8
673	Environmental Impacts of Hydrogen Production by Hydrothermal Gasification of a Real Biowaste. 2012 ,		0
672	Symmetric and Asymmetric Zeolitic Imidazolate Frameworks (ZIFs)/Polybenzimidazole (PBI) Nanocomposite Membranes for Hydrogen Purification at High Temperatures. 2012 , 2, 1358-1367		120
671	Photocatalytic hydrogen evolution with Ni nanoparticles by using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst. 2012 , 5, 6111		82
670	Production and characterization of hollow glass microspheres with high diffusivity for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1518-1530	6.7	24
669	A rigorous computational model for hydrogen production from bio-ethanol to feed a fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3108-3129	6.7	18
668	Hydrogen production from methane and natural gas steam reforming in conventional and microreactor reaction systems. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7026-7033	6.7	96
667	Bimetallic complexes in artificial photosynthesis for hydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3066-3087	6.7	43
666	Procedure for optimal design of hydrogen production plants with reserve storage and a stand-alone photovoltaic power system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4018-4025	6.7	17
665	Hydrogen production from vegetable waste by bioaugmentation of indigenous fermentative communities. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5612-5622	6.7	57
664	Yeast extract as an effective nitrogen source stimulating cell growth and enhancing hydrogen photoproduction by Rhodospirillum rubrum strains from mineral springs. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6519-6526	6.7	44
663	Self-organized TiO ₂ nanotube arrays with uniform platinum nanoparticles for highly efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6438-6446	6.7	72
662	Hydrogen production from hydrogen sulfide in a packed-bed DBD reactor. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8217-8222	6.7	15
661	Hydrogen as an energy carrier: Prospects and challenges. 2012 , 16, 3024-3033		648
660	Influencing factors of water electrolysis electrical efficiency. 2012 , 16, 4257-4263		146
659	Biohydrogen from Renewable Resources. 2013 , 185-221		14
658	Autothermal reforming of iso-octane and gasoline over Rh-based catalysts: Influence of CeO ₂ /Al ₂ O ₃ -based mixed oxides on hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15140-15151	6.7	6

657	An energy self-sufficient public building using integrated renewable sources and hydrogen storage. 2013 , 57, 95-105		36
656	High electrocatalytic effect of AuPd alloy nanoparticles electrodeposited on microwave assisted sol-gel-derived carbon ceramic electrode for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1883-1891	6.7	49
655	Heat and gas transport properties in pelletized hydride-graphite-composites for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1685-1691	6.7	33
654	Autothermal reforming and water-gas shift double bed reactor for H ₂ production from ethanol. 2013 , 74, 14-18		16
653	Ag ₃ PO ₄ photocatalyst: Hydrothermal preparation and enhanced O ₂ evolution under visible-light irradiation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 11870-11877	6.7	49
652	Protonation equilibrium and hydrogen production by a dinuclear cobalt-hydride complex reduced by cobaltocene with trifluoroacetic acid. 2013 , 135, 15294-7		69
651	Analysis of a metal hydride reactor for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 942-951	6.7	17
650	Electrochemical preparation and characterization of C/NiNiIr composite electrodes as novel cathode materials for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2251-2256	6.7	41
649	Stand-alone operation of an alkaline water electrolyser fed by wind and photovoltaic systems. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14952-14967	6.7	48
648	Bio-fuel reformation for solid oxide fuel cell applications. Part 1: Fuel vaporization and reactant mixing. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12024-12034	6.7	19
647	Electrocatalytic approach for the efficiency increase of electrolytic hydrogen production: Proof-of-concept using platinum-dysprosium alloys. 2013 , 50, 486-492		38
646	Optical and photoelectrochemical properties of a TiO ₂ thin film doped with a ruthenium-rungsten bimetallic complex. 2013 , 39, 2699-2707		9
645	Comparison of four nickel-based electrodes for hydrogen evolution reaction. 2013 , 88, 390-394		54
644	NiMn composite electrodes as cathode material for hydrogen evolution reaction in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4466-4473	6.7	41
643	Lignocellulosic Materials Into Biohydrogen and Biomethane: Impact of Structural Features and Pretreatment. 2013 , 43, 260-322		265
642	Porous carbon-based materials for hydrogen storage: advancement and challenges. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9365	13	230
641	Room Temperature Hydrogen Production from Ethanol over CeNiXHZOY Nano-Oxyhydride Catalysts. 2013 , 5, 2207-2216		35
640	Electric Conditioning and Efficiency of Hydrogen Production Systems and Their Integration with Renewable Energies. 2013 , 333-360		5

639	Robustness of Ru/SiO ₂ as a Hydrogen-Evolution Catalyst in a Photocatalytic System Using an Organic Photocatalyst. 2013 , 117, 13143-13152		27
638	High performance ZIF-8/PBI nano-composite membranes for high temperature hydrogen separation consisting of carbon monoxide and water vapor. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 229-239	6.7	113
637	Ethanol reforming for supplying molten carbonate fuel cells. 2013 , 8, 140-145		21
636	DSC-TGA Hydrogen Evaluation during Mechanical Milling of AlFe Intermetallic. 2013 , 755, 105-110		3
635	Elementary Flux Mode Analysis of Acetyl-CoA Pathway in Carboxydotherrmus hydrogenofomans Z-2901. 2014 , 2014, 928038		2
634	Carbon-palladium films as gas sensors (hydrogen, ammonia, methane). 2014 ,		
633	Preparation and characterization of hollow glass microspheres (HGMs) for hydrogen storage using urea as a blowing agent. 2014 , 126, 65-70		20
632	Bacterial symbionts enhance photo-fermentative hydrogen evolution of Chlamydomonas algae. 2014 , 16, 4716-4727		48
631	Electrochemical Deuteration of Metastable MgTi Alloys: An Effective Way to Inhibit Phase Segregation. 2014 , 4, 1300590		15
630	Electrochemical Preparation, Characterization, and Application of a Novel Cathode Material, Mild Steel/Ni/NiZn-Pt, for Alkaline Water Electrolysis. 2014 , 36, 1212-1218		13
629	Sequencing batch reactors (SBRs) for BioH ₂ production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4863-4869	6.7	10
628	Studies on water-gas-shift enhanced by adsorption and membrane permeation. 2014 , 236, 57-63		20
627	Hydrogen production from bioethanol catalyzed by NiXMg ₂ AlOY ex-hydrotaalcite catalysts. 2014 , 152-153, 370-382		40
626	The role of hydrogen in achieving the decarbonization targets for the UK domestic sector. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4158-4169	6.7	27
625	Perspective on hydrogen energy carrier and its automotive applications. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8482-8494	6.7	232
624	Magnesium and iron loaded hollow glass microspheres (HGMs) for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16451-16458	6.7	15
623	Thermodynamic evaluation of geothermal energy powered hydrogen production by PEM water electrolysis. 2014 , 69, 592-602		68
622	Colloidal hybrid heterostructures based on II-VI semiconductor nanocrystals for photocatalytic hydrogen generation. 2014 , 19, 52-61		60

621	Amorphous molybdenum sulfides as hydrogen evolution catalysts. 2014 , 47, 2671-81		467
620	In situ aqueous synthesis of silver nanoparticles supported on titanium as active electrocatalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19519-19540	6.7	44
619	Biohydrogen production by a novel thermotolerant photosynthetic bacterium <i>Rhodospseudomonas pentothenatexigens</i> strain KKU-SN1/1. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15424-15432	6.7	11
618	Hydrogen generation by the hydrolysis of magnesium-aluminum-iron material in aqueous solutions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10843-10852	6.7	38
617	Structure and bonding features of $Ae_6Mg_7H_{26}$ ($Ae = Sr, Ba$) with complex polyhedrons: First-principles calculations. 2014 , 95, 235-241		
616	Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis. 2014 , 161, F386-F390		31
615	Additives in protic hydridic hydrogen storage compounds: a molecular study. 2014 , 4, 52785-52795		1
614	Hydrogen production by <i>Escherichia coli</i> without nitrogen sparging and subsequent use of the waste culture for fast mass scale one-pot green synthesis of silver nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11902-11912	6.7	13
613	Electrospun Granular Hollow SnO_2 Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. 2014 , 118, 3129-3139		141
612	Engine performance powered by a mixture of hydrogen and oxygen fuel obtained from water electrolysis. 2014 , 15, 97-101		11
611	Optimal liquid acquisition device screen weave for a liquid hydrogen fuel depot. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4356-4366	6.7	24
610	Influence of a reaction mixture streamline on partial oxidation of methane in an asymmetric microchannel reactor. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 325-330	6.7	7
609	Development of hydrogen absorption-desorption experimental test bench for hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13596-13602	6.7	21
608	Screen channel LAD bubble point tests in liquid hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 853-861	6.7	25
607	Effect of Co loading on the hydrogen storage characteristics of hollow glass microspheres (HGMs). <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3304-3312	6.7	10
606	Tests on $LmNi_{4.91}Sn_{0.15}$ based solid state hydrogen storage device with embedded cooling tubes [Part B: Desorption process. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4966-4972	6.7	15
605	Insight into the adsorption and decomposition mechanism of H_2S on clean and S-covered Au (100) surface: A theoretical study. 2014 , 311, 40-46		16
604	Continuous operation characteristics of chemical looping hydrogen production system. 2014 , 113, 1667-1674		58

603	Tunable hydrogen separation in porous graphene membrane: first-principle and molecular dynamic simulation. 2014 , 6, 8048-58		144
602	Hydrogen production by steam reforming of ethanol over P123-assisted mesoporous NiAl ₂ O ₃ /ZrO ₂ xerogel catalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10445-10453	6.7	23
601	Enhanced hydrogen evolution rates at high pH with a colloidal cadmium sulphide/platinum hybrid system. 2014 , 2, 126102		7
600	Thermal and Photocatalytic Production of Hydrogen Peroxide and its Use in Hydrogen Peroxide Fuel Cells. 2014 , 67, 354		28
599	Emission of Internal Combustion with Low Temperature Plasma Reformer. 2015 , 75, 3036-3041		4
598	Hydrogen Energy. 2015 , 1-38		
597	The effect of environmental conditions on the operation of a hydrogen refuelling station. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 17153-17162	6.7	8
596	Novel properties of photofermentative biohydrogen production by purple bacteria Rhodospirillum rubrum: effects of protonophores and inhibitors of responsible enzymes. 2015 , 14, 131		20
595	Effect of Cobalt Addition on the Activity of Nanocrystalline Iron Catalysts in the Cracking of Methane Reaction. 2015 , 33, 559-566		3
594	A review on biomass-based hydrogen production for renewable energy supply. 2015 , 39, 1597-1615		104
593	Contamination Effects on Improving the Hydrogenation/Dehydrogenation Kinetics of Binary Magnesium Hydride/Titanium Carbide Systems Prepared by Reactive Ball Milling. 2015 , 8, 6880-6892		13
592	Fabrication of a Microtubular La _{0.6} Sr _{0.4} Ti _{0.2} Fe _{0.8} O ₃ Membrane by Electrophoretic Deposition for Hydrogen Production. 2015 , 2015, 1-6		2
591	Theoretical Prediction of Hydrogen Separation Performance of Two-Dimensional Carbon Network of Fused Pentagon. 2015 , 7, 28502-7		28
590	Superior catalytic effect of nanocrystalline big-cube Zr ₂ Ni metastable phase for improving the hydrogen sorption/desorption kinetics and cyclability of MgH ₂ powders. 2015 , 91, 274-282		30
589	Urban traffic pollution reduction for sedan cars using petrol engines by hydro-oxide gas inclusion. 2015 , 65, 1456-60		4
588	Hydrogen evolution reaction at Ru-modified nickel-coated carbon fibre in 0.1 M NaOH. 2015 , 17, 18-22		2
587	Synechocystis sp. PCC6803 metabolic models for the enhanced production of hydrogen. 2015 , 35, 184-98		7
586	Structure-activity relationships of Ni ₃ NiO core-shell co-catalysts on Ta ₂ O ₅ for solar hydrogen production. 2015 , 172-173, 58-64		33

- 585 Enhanced efficiency and stability for visible light driven water splitting hydrogen production over Cd_{0.5}Zn_{0.5}S/g-C₃N₄ composite photocatalyst. *International Journal of Hydrogen Energy*, **2015**, 40, 7546-7552 6.7 64
- 584 Optical gas sensing properties of nanoporous Nb₂O₅ films. **2015**, 7, 4751-8 56
- 583 Photocatalytic H₂ production by ethanol photodehydrogenation: Effect of anatase/brookite nanocomposites composition. **2015**, 431, 197-205 35
- 582 A composite photocatalyst of an organic electron donor-acceptor dyad and a Pt catalyst supported on semiconductor nanosheets for efficient hydrogen evolution from oxalic acid. **2015**, 5, 428-437 15
- 581 A CO₂-stable hollow-fiber membrane with high hydrogen permeation flux. **2015**, 61, 1997-2007 36
- 580 Hydrogen production by Escherichia coli during glucose fermentation: Effects of oxidative and reductive routes used by the strain lacking hydrogen oxidizing hydrogenases 1 (hya¹) and 2 (hya²). *International Journal of Hydrogen Energy*, **2015**, 40, 7459-7464 6.7 3
- 579 Escherichia coli growth and hydrogen production in batch culture upon formate alone and with glycerol co-fermentation at different pHs. *International Journal of Hydrogen Energy*, **2015**, 40, 9935-9941 6.7 17
- 578 Effect of temperature and thickness of graphene on the hydrogen storage properties. **2015**, 36, 1003-1007 2
- 577 Fabrication of zinc-loaded hollow glass microspheres (HGMs) for hydrogen storage. **2015**, 39, 717-726 4
- 576 Photocatalytic hydrogen evolution with simultaneous photocatalytic reforming of biomass by Er³⁺:YAlO₃/Pt/TiO₂ membranes under visible light driving. **2015**, 273, 277-285 24
- 575 Autonomous hydrogen production system. *International Journal of Hydrogen Energy*, **2015**, 40, 7465-7476 6.7 11
- 574 Photocatalytic H₂ evolution from NADH with carbon quantum dots/Pt and 2-phenyl-4-(1-naphthyl)quinolinium ion. **2015**, 152, 63-70 26
- 573 Metal-Organic Framework/PVDF Composite Membranes with High H₂ Permselectivity Synthesized by Ammoniation. **2015**, 21, 7224-30 55
- 572 Hydrogen production by partial oxidation of methane over Co based, Ni and Ru monolithic catalysts. *International Journal of Hydrogen Energy*, **2015**, 40, 7439-7451 6.7 37
- 571 Membrane reactors for biohydrogen production and processing. **2015**, 267-286 2
- 570 Ni₂Cu alloy nanoparticles loaded on various metal oxides acting as efficient catalysts for photocatalytic H₂ evolution. **2015**, 5, 44912-44919 9
- 569 Environmental impact assessment and comparison of some hydrogen production options. *International Journal of Hydrogen Energy*, **2015**, 40, 6976-6987 6.7 90
- 568 Hydrogen transportation properties in carbon nano-scroll investigated by using molecular dynamics simulations. **2015**, 102, 7-13 7

567	CO ₂ -free electric power circulation via direct charge and discharge using the glycolic acid/oxalic acid redox couple. 2015 , 8, 1456-1462		35
566	Radiation-Grafted Polymer Electrolyte Membranes for Water Electrolysis Cells: Evaluation of Key Membrane Properties. 2015 , 7, 22203-12		41
565	Hydrogen production by steam reforming of m-cresol, a bio-oil model compound, using catalysts supported on conventional and unconventional supports. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14445-14455	6.7	31
564	Exergetic cost evaluation of hydrogen production powered by combined flash-binary geothermal power plant. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14021-14030	6.7	61
563	Electrocatalytic hydrogen evolution reaction with metallophthalocyanines modified with click electrochemistry. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12973-12984	6.7	29
562	Model predictive control of hydrogen production by renewable energy. 2015 ,		2
561	Two dimetallocenes with vanadium and chromium: Electronic structures and their promising application in hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12047-12056	6.7	11
560	Qualitative and quantitative analysis of solar hydrogen generation literature from 2001 to 2014. 2015 , 105, 759-771		17
559	Solar hydrogen power system for isolated passive house. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16001-16009	6.7	10
558	Graphene meshes decorated with palladium nanoparticles for hydrogen detection. 2015 , 48, 475103		10
557	Electrocatalytic hydrogen production by bulk and nano Fe ₂ O ₃ and carbon nanotube modified with Fe ₂ O ₃ . 2015 , 739, 73-83		9
556	In operando visualization of hydride-graphite composites during cyclic hydrogenation by high-resolution neutron imaging. 2015 , 277, 360-369		16
555	Mechanisms for hydrogen production by different bacteria during mixed-acid and photo-fermentation and perspectives of hydrogen production biotechnology. 2015 , 35, 103-13		44
554	Integration of the environmental management aspect in the optimization of the design and planning of energy systems. 2015 , 106, 576-593		36
553	. 2016 ,		9
552	DFT Study of Synergistic Catalysis of the Water-Gas-Shift Reaction on CuAu Bimetallic Surfaces. 2016 , 8, 1208-1217		13
551	Thermophilic biohydrogen production for commercial application: the whole picture. 2016 , 40, 127-145		18
550	In-situ catalyzation approach for enhancing the hydrogenation/dehydrogenation kinetics of MgH powders with Ni particles. 2016 , 6, 37335		35

549	Modeling and simulation of a SOFC/MGT hybrid system fueled by hydrogen. 2016 ,		2
548	Improvement in the Sensing Response of Nano-Crystalline ZnO-Based Hydrogen Sensor: Effect of Swift Heavy Ion Irradiation. 2016 , 16, 7586-7592		7
547	Convertible hydrogen biradicals storage by graphene nanosheets. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7590-7599	6.7	5
546	Unfamiliar fuel: How the UK public views the infrastructure required to supply hydrogen for road transport. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6534-6543	6.7	23
545	Advanced functionalized Mg ₂ AlNiXHZOY nano-oxyhydrides ex-hydroxalcalites for hydrogen production from oxidative steam reforming of ethanol. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15443-15452	6.7	28
544	Effect of the addition of glycerol on hydrogen production from industrial municipal solid waste. 2016 , 180, 343-347		35
543	Sankey-Diagram-based insights into the hydrogen economy of today. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7744-7753	6.7	64
542	Biomass-derived hydrogen energy potential in Africa. 2016 , 35, 289-297		4
541	Electrochemical growth of triazine based metal ion containing polymers on nanostructured nickel electrodeposits and their hydrogen evolution activities in acidic condition. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8829-8838	6.7	6
540	Comparative impact assessment study of various hydrogen production methods in terms of emissions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8364-8375	6.7	51
539	Sulfide pendants in cobalt clathrochelate complexes as a proton pump for the electrochemical H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9312-9319	6.7	10
538	Synergistic dosing effect of TiC/FeCr nanocatalysts on the hydrogenation/dehydrogenation kinetics of nanocrystalline MgH ₂ powders. 2016 , 104, 158-170		39
537	Effect of crystalline structure and pore geometry of silica based supported materials on the catalytic behavior of metallic nickel particles during methane decomposition to CO-free hydrogen and carbon nanomaterials. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16890-16902	6.7	38
536	Electrochemical insights into the mechanism of NiFe membrane-bound hydrogenases. 2016 , 44, 315-28		28
535	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16723-16730	13	38
534	Hydrogen Peroxide used as a Solar Fuel in One-Compartment Fuel Cells. 2016 , 3, 1978-1989		60
533	Optimal operation of a hydrogen refuelling station combined with wind power in the electricity market. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21057-21066	6.7	35
532	Nano-fibrillated cellulose (NFC) as versatile carriers of TiO ₂ nanoparticles (TNPs) for photocatalytic hydrogen generation. 2016 , 6, 89457-89466		23

531	Synthesis of palladium-carbon nanotube-metal organic framework composite and its application as electrocatalyst for hydrogen production. 2016 , 6, 299-308		15
530	Influence of the main gasifier parameters on a real system for hydrogen production from biomass. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11965-11973	6.7	31
529	Ecological perspectives of hydrogen fermentation by microbial consortia: What we have learned and the way forward. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17297-17308	6.7	19
528	Assessment of similarity relations using helium for prediction of hydrogen dispersion and safety in an enclosure. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15388-15398	6.7	19
527	The interactions of Li ₃ FeN ₂ with H ₂ and NH ₃ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14171-14177	6.7	4
526	Green hydrogen energy system: a policy on reducing petroleum-based global unrest. 2016 , 10, 354		9
525	Hydrogen production by steam reforming of ethanol over Ni-Sr-Al ₂ O ₃ -ZrO ₂ aerogel catalyst. 2016 , 424, 342-350		15
524	Metallic glassy Zr ₇₀ Ni ₂₀ Pd ₁₀ powders for improving the hydrogenation/dehydrogenation behavior of MgH ₂ . 2016 , 6, 26936		42
523	Performance evaluation at different process parameters of an innovative prototype of biomass gasification system aimed to hydrogen production. 2016 , 130, 34-43		29
522	Photovoltaic, Photocatalytic Application, and Water Splitting. 2016 , 275-294		2
521	Fabrication of amorphous CoMoS as a bifunctional electrocatalyst for water splitting under strong alkaline conditions. 2016 , 8, 18887-18892		68
520	Structural characterization and proton reduction electrocatalysis of thiolate-bridged bimetallic (CoCo and CoFe) complexes. 2016 , 45, 18559-18565		20
519	Experimental and numerical investigation on premixed H ₂ /air combustion. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 10496-10506	6.7	11
518	Study of production optimization and effect of hydroxyl gas on a CI engine performance and emission fueled with biodiesel blends. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14519-14528	6.7	45
517	High-Throughput Computational Screening of Perovskites for Thermochemical Water Splitting Applications. 2016 , 28, 5621-5634		137
516	MgO/NiAl ₂ O ₄ as a new formulation of reforming catalysts: Tuning the surface properties for the enhanced partial oxidation of methane. 2016 , 199, 372-383		39
515	Catalytic performance of nickel immobilized on organically modified montmorillonite in the steam reforming of ethanol for hydrogen production. 2016 , 44, 689-697		6
514	Integration of commercial alkaline water electrolyzers with renewable energies: Limitations and improvements. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12852-12861	6.7	33

513	Reducing pollutant emissions from a heavy-duty diesel engine by using hydrogen additions. 2016 , 172, 89-95		51
512	Hydrogen production from renewable and sustainable energy resources: Promising green energy carrier for clean development. 2016 , 57, 850-866		995
511	Steam reforming, partial oxidation and oxidative steam reforming for hydrogen production from ethanol over cerium nickel based oxyhydride catalyst. 2016 , 518, 78-86		41
510	Improved synthesis of perfluoroalkyl substituted 1,3,4-oxadiazoles as precursors for corresponding 1,2,4-triazoles. 2016 , 183, 30-35		8
509	Hydrogen production from NaBH ₄ using Co/CuB catalysts prepared in methanol: Effect of plasma treatment. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1600-1608	6.7	38
508	Microwave pyrolysis of oil palm fiber (OPF) for hydrogen production: Parametric investigation. 2016 , 115, 232-243		45
507	Electrocatalytic hydrogen evolution reaction on reduced graphene oxide electrode decorated with cobaltphthalocyanine. 2016 , 188, 217-226		61
506	Characteristics of a sintered porous Ni/Cu alloy cathode for hydrogen production in a potassium hydroxide solution. 2016 , 97, 498-505		49
505	Density function theory study of water gas shift reaction on 2Cu/ZnO(101̄0) surface. 2016 , 1081, 62-70		5
504	Might More Harm Be Done Than Good When Scientists and Engineers Engage with the Public About New Technology Before it is Fully Developed? The Case of Hydrogen Energy. 2016 , 6, 283-302		1
503	Photocatalytic/Electrocatalytic dual hydrogen production system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8209-8220	6.7	11
502	Effects of lithium doping on hydrogen storage properties of heat welded random CNT network structures. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8246-8255	6.7	13
501	Introduction. 2016 , 1-13		1
500	Enhancement of electrochemical activity of Raney-type NiZn coatings by modifying with PtRu binary deposits: Application for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1432-1440	6.7	31
499	Niobium and molybdenum co-doped La _{0.5} WO _{3.25} membrane with improved hydrogen permeability. 2016 , 510, 155-163		28
498	Hydrogen production by steam reforming of ethanol over Ni _x /Al ₂ O ₃ ·rO ₂ (X = Mg, Ca, Sr, and Ba) xerogel catalysts: Effect of alkaline earth metal addition. 2016 , 415, 151-159		25
497	Novel molybdenum disulfide nanosheets decorated polyaniline: Preparation, characterization and enhanced electrocatalytic activity for hydrogen evolution reaction. 2016 , 91, 41-47		35
496	Reliability and selectivity of H ₂ sensors composed of Pd Film nanogaps on an elastomeric substrate. 2016 , 224, 547-551		36

495	Mixed integer linear programming based approach for optimal planning and operation of a smart urban energy network to support the hydrogen economy. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7700-7716	6.7	75
494	Parametric study of exergetic sustainability performances of a high altitude long endurance unmanned air vehicle using hydrogen fuel. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8323-8336	6.7	11
493	The effect of sunlight in hydrogen production from water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 133-142	6.7	22
492	Dimensional effects of nanostructured Mg/MgH ₂ for hydrogen storage applications: A review. 2017 , 72, 523-534		177
491	Fabrication and characterization of thermochemical hydrogen sensor with laminated structure. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 749-756	6.7	13
490	Custom designed metal anchored SnO ₂ sensor for H ₂ detection. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4597-4609	6.7	35
489	Gold-supported activated NiZn coatings: hydrogen evolution and corrosion studies. 2017 , 41, 1452-1459		20
488	Latest progress in hydrogen production from solar water splitting via photocatalysis, photoelectrochemical, and photovoltaic-photoelectrochemical solutions. 2017 , 38, 5-12		140
487	Introduction to biofuel cells: A biological source of energy. 2017 , 39, 419-425		7
486	Ethanol steam reforming for hydrogen production: Latest and effective catalyst modification strategies to minimize carbonaceous deactivation. 2017 , 74, 89-103		160
485	In-situ constructing NiO nanoplatelets network on La _{0.75} Sr _{0.25} Mn _{0.5} Cr _{0.5} O _{3-δ} electrode with enhanced steam electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5657-5666	6.7	3
484	Ni/Pd-promoted Al ₂ O ₃ /Al ₂ O ₃ catalyst for hydrogen production from polyethylene terephthalate waste via steam reforming. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 10708-10721	6.7	25
483	Synthesis and characterization of KOH/boron modified activated carbons from coal and their hydrogen sorption characteristics. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23606-23616	6.7	22
482	The effect of NiCl ₂ and Na ₂ CO ₃ on hydrogen production by Al/H ₂ O system. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3586-3592	6.7	11
481	Two in one: N-doped tubular carbon nanostructure as an efficient metal-free dual electrocatalyst for hydrogen evolution and oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6025-6031	13	55
480	Rapid hydrogen sensing response and aging of BiMoO ₃ nanowires paper sensor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8399-8405	6.7	31
479	Transition and transformation: A review of the concept of change in the progress towards future sustainable energy systems. 2017 , 107, 11-26		22
478	Investigation of hydrogen production methods in accordance with green chemistry principles. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23395-23401	6.7	60

477	Methanol as a High Purity Hydrogen Source for Fuel Cells: A Brief Review of Catalysts and Rate Expressions. 2017 , 38, 147-162		8
476	Fatigue crack growth behavior of JIS SCM440 steel near fatigue threshold in 9-MPa hydrogen gas environment. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13158-13170	6.7	15
475	Theoretical study of H ₂ separation performance of two-dimensional graphitic carbon oxide membrane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13120-13126	6.7	14
474	Exergetic sustainability indicators for a high pressure hydrogen production and storage system. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21379-21391	6.7	11
473	Green synthesized N-doped graphitic carbon sheets coated carbon cloth as efficient metal free electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14390-14399	6.7	68
472	Hydrogen from algal biomass: A review of production process. 2017 , 15, 63-69		106
471	Enhanced hydrogen permeability and reverse water-gas shift reaction activity via magneli Ti ₄ O ₇ doping into SrCe _{0.9} Y _{0.1} O ₃ hollow fiber membrane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12301-12309	6.7	15
470	Palladium nanoparticle binding in functionalized track etched PET membrane for hydrogen gas separation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16186-16194	6.7	14
469	Renewable hydrogen production from bio-oil derivative via catalytic steam reforming: An overview. 2017 , 79, 347-357		124
468	Process modelling of an alkaline water electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15689-15707	6.7	52
467	Microbial Applications Vol.1. 2017 ,		4
466	A Hybrid Biomass Hydrothermal Gasification- Solid Oxide Fuel Cell System Combined with Improved CHP Plant for Sustainable Power Generation. 2017 , 112, 467-472		3
465	Integrated Biorefinery Approach for the Valorization of Olive Mill Waste Streams Towards Sustainable Biofuels and Bio-Based Products. 2017 , 211-238		4
464	Selective storage and evolution of hydrogen on nafion/NaCl/graphene quantum dot mixed matrix using tensammetry as power electrochemical technique. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9428-9439	6.7	2
463	Structure, morphology and hydrogen storage kinetics of nanocomposite MgH ₂ /10 wt% ZrNi ₅ powders. 2017 , 3, 60-71		27
462	Parametric study on the steam reforming of phenol-PET solution to hydrogen production over Ni promoted on Al ₂ O ₃ -La ₂ O ₃ catalyst. 2017 , 142, 127-142		37
461	Photocurrent increase by metal modification of Fe ₂ O ₃ photoanodes and its effect on photoelectrocatalytic hydrogen production by degradation of organic substances. 2017 , 400, 176-183		38
460	Metal ion-containing C ₃ N ₃ S ₃ coordination polymers chemisorbed to a copper surface as acid stable hydrogen evolution electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2052-2065	13	34

459	Kinetics study and modelling of steam methane reforming process over a NiO/Al ₂ O ₃ catalyst in an adiabatic packed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2889-2903	6.7	84
458	Highly defective porous CoP nanowire as electrocatalyst for full water splitting. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29080-29090	6.7	56
457	Iron(II) clathrochelates as electrocatalysts of hydrogen evolution reaction at low pH. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27084-27093	6.7	9
456	Synthetic nanocomposite MgH/5 wt. % TiMn powders for solid-hydrogen storage tank integrated with PEM fuel cell. 2017 , 7, 13296		25
455	Hydrogen production by steam reforming of natural gas over butyric acid-assisted nickel/alumina catalyst. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28377-28385	6.7	20
454	Optimal network design of hydrogen production by integrated utility and biogas supply networks. 2017 , 208, 195-209		17
453	Diffusion of hydrogen molecules in MOF-508a with a reversible open-dense framework: A computational study. 2017 , 686, 26-33		1
452	Review of modelling approaches used in the HSC context for the UK. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24927-24938	6.7	17
451	Synthesis of effective electrocatalyst for water splitting application from simple Cu-Ni bath. 2017 , 53, 352-359		
450	Economic analysis on the use of wired and wireless recharging systems. 2017 ,		0
449	Effect of operating parameters on hydrogen production by electrolysis of water. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 25550-25557	6.7	74
448	CFD simulations of premixed hydrogen combustion using the Eddy Dissipation and the Turbulent Flame Closure models. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21990-22004	6.7	17
447	Effect of Preparation Conditions on the Polymorphism and Transport Properties of La ₆ MoO ₁₂ (0 $\leq x$ 0.8). 2017 , 29, 6966-6975		20
446	A first principles study of hydrogen storage in lithium decorated defective phosphorene. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23018-23027	6.7	41
445	Two-dimensional graphene oxide membrane for H ₂ /CH ₄ separation: Insights from molecular dynamics simulations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30653-30660	6.7	18
444	A facile non-photocatalytic technique for hydrogen gas production by hydroelectric cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30584-30590	6.7	18
443	Gas sensors for sustainable and safe integrated gasification-FC system. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29606-29619	6.7	5
442	Hydrogen Energy in General. 2017 , 59-69		1

441	Preparation of Ag/Ga ₂ O ₃ nanofibers via electrospinning and enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19913-19919	6.7	19
440	[FeFe]-Hydrogenase H-cluster mimics mediated by naphthalene monoimide derivatives of peri-substituted dichalcogenides. 2017 , 46, 11180-11191		34
439	Hydrogen Evolution from Native Biomass with Fe ³⁺ /Fe ²⁺ Redox Couple Catalyzed Electrolysis. 2017 , 246, 1163-1173		35
438	Ultrasonication-assisted wet-chemical fabrication of uniform AuPt nanodendrites as efficient electrocatalyst for oxygen reduction and hydrogen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2071-2080	6.7	16
437	Effect of ceria and zirconia promoters on Ni/SBA-15 catalysts for coking and sintering resistant steam reforming of propylene glycol in microreactors. 2017 , 203, 859-869		68
436	Preparation and characterization of Pd-modified Raney-type NiZn coatings and their application for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2464-2475	6.7	35
435	Waste-to-Hydrogen Energy in Saudi Arabia: Challenges and Perspectives. 2017 , 237-252		16
434	Fabrication and characterization of three-dimensional silver nanodomains: Application for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2476-2484	6.7	17
433	A comparative overview of hydrogen production processes. 2017 , 67, 597-611		1004
432	High-rate hydrogen separation using an MIEC oxygen permeable membrane reactor. 2017 , 63, 1278-1286		21
431	Thermal stability of the sensing properties in H ₂ sensors composed of Pd nanogaps on an Elastomeric Substrate. 2017 , 240, 186-192		23
430	Comparison of hydrogen absorption in metallic and semiconductor single-walled Ge- and GeO ₂ -doped carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 969-977	6.7	7
429	Analysis of Tokamak fusion device parameters affecting the efficiency of Tokamak operation. 2017 , 4, 87-102		1
428	Hybrid Hydrogen and Mechanical Distributed Energy Storage. <i>Energies</i> , 2017 , 10, 2035	3.1	13
427	Numerical Simulation of Hydrogen Combustion: Global Reaction Model and Validation. 2017 , 5,		2
426	Hydrogen Production from Cyclic Chemical Looping Steam Methane Reforming over Yttrium Promoted Ni/SBA-16 Oxygen Carrier. 2017 , 7, 286		29
425	Photocatalytic Water Splitting on Semiconductor-Based Photocatalysts. 2017 , 60, 1-57		48
424	Preliminary optimization of process conditions for biohydrogen production from sago wastewater. 2017 ,		

423	A Rechargeable Hydrogen Battery. 2018 , 9, 2492-2497		13
422	A new sulfur source for the preparation of efficient Cd(1-x)ZnxS photocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8206-8220	6.7	11
421	Hydrogen Generation in an Annular Micro-Reactor: An Experimental Investigation and Reaction Modelling by Shrinking Core Model (SCM). 2018 , 16,		1
420	Fabrication of Mo-modified carbon felt as candidate substrate for electrolysis: Optimization of pH, current and metal amount. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10540-10548	6.7	11
419	Enhanced Hydrogen Purification in Nanoporous Phosphorene Membrane with Applied Electric Field. 2018 , 122, 3497-3505		16
418	Infrastructure and Technology Management. 2018 ,		3
417	Fabrication of CdS/BSiC/TiO2 tri-composites that exploit hole- and electron-transfer processes for photocatalytic hydrogen production under visible light. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2207-2211	6.7	13
416	Efficient and Stable Pt/TiO2/CdS/Cu2BaSn(S,Se)4 Photocathode for Water Electrolysis Applications. 2018 , 3, 177-183		62
415	Electrocatalysis of hydrogen evolution reaction on tri-metallic Rh@Pd/Pt(poly) electrode. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2763-2771	6.7	18
414	Technology Assessment: Developing Geothermal Energy Resources for Supporting Electrical System in Oregon. 2018 , 67-175		1
413	Impacts of nano-metal oxides on hydrogen production in anaerobic digestion of palm oil mill effluent [A novel approach. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2666-2676	6.7	55
412	Molecular Models for the Hydrogen Age: Hydrogen, Nitrogen, Oxygen, Argon, and Water. 2018 , 63, 305-320		13
411	Techno-economic analysis and life cycle assessment of hydrogen production from different biomass gasification processes. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 9514-9528	6.7	89
410	CO2 mitigation costs of catalytic methane decomposition. 2018 , 151, 826-838		15
409	An investigation of the efficiency of using O2 and H2 (hydroxile gas -HHO) gas additives in a ci engine operating on diesel fuel and biodiesel. 2018 , 152, 640-651		47
408	Sodium Silicide As A Hydrogen Source For Portable Energy Devices: A Review. 2018 , 5, 3563-3570		15
407	Acceptorless Dehydrogenation of Hydrocarbons by Noble-Metal-Free Hybrid Catalyst System. 2018 , 20, 2042-2045		23
406	Three-dimensional nickel nanodomains: Efficient electrocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10580-10585	6.7	14

405	Aerogel sheet of carbon nanotubes decorated with palladium nanoparticles for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6456-6461	6.7	19
404	The effect of 3D silver nanodome size on hydrogen evolution activity in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10586-10594	6.7	12
403	Semiclassical SAFT-VR-2D modeling of adsorption selectivities for binary mixtures of hydrogen and methane adsorbed onto MOFs. 2018 , 462, 153-171		4
402	Modification of porous nickel electrodes with silver nanoparticles for hydrogen production. 2018 , 808, 420-426		7
401	Energy, exergy and exergoeconomic analysis of a cogeneration system for power and hydrogen production purpose based on TRR method and using low grade geothermal source. 2018 , 71, 132-145		50
400	Doped phosphorene for hydrogen capture: A DFT study. 2018 , 433, 249-255		38
399	Functionalized and engineered nanochannels for gas separation. 2018 , 90, 1063-1071		5
398	Theoretical and Experimental Performance of Oxy-hydrogen Generators. 2018 , 43, 1279-1289		4
397	Amorphous-versus big cube- Zr ₂ Ni for improving the kinetics of hydrogenation/dehydrogenation behaviors for MgH ₂ powders. 2018 , 203, 17-26		14
396	Ab-initio study of electronic and elastic properties of Mg(BH ₄)(NH ₂) complex hydride. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1587-1595	6.7	3
395	Water dissociation and CO oxidation over Au/anatase catalyst. A DFT-D2 study. 2018 , 435, 1168-1173		8
394	Large-scale liquid hydrogen production methods and approaches: A review. 2018 , 212, 57-83		100
393	Influence of the Fe:Ni Ratio and Reaction Temperature on the Efficiency of (Fe _x Ni _{1-x}) ₉ S ₈ Electrocatalysts Applied in the Hydrogen Evolution Reaction. 2018 , 8, 987-996		90
392	Cost metrics of electrical energy storage technologies in potential power system operations. 2018 , 25, 43-59		55
391	Energy, exergy, economic and environmental (4E) analysis of using city gate station (CGS) heater waste for power and hydrogen production: A comparative study. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1855-1874	6.7	39
390	Macroporous platinum electrodes for hydrogen oxidation in ionic liquids. 2018 , 86, 43-47		9
389	Analysis of Research Topics and Scientific Collaborations in Renewable Energy Using Community Detection. 2018 , 10, 4510		16
388	Hydrogen is essential for sustainability. 2018 , 12, 166-181		50

387	Hydrogen Production from Light Hydrocarbons. 2018,		4
386	Design and Optimization of High-Pressure Hydrogen Cylinders for Intermodal Container Transportation. 2018,		
385	. 2018,		3
384	An ultrafine ruthenium nanocrystal with extremely high activity for the hydrogen evolution reaction in both acidic and alkaline media. 2018, 54, 13076-13079		31
383	Hydrogen evolution on Pd modified CoCuZn and CoMnZn cathodes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22797-22806	6.7	8
382	Electrochemical Preparation and Post-treatment of Composite Porous Foam NiZn Alloy Electrodes with High Activity for Hydrogen Evolution. 2018, 8, 15071		7
381	Joint Learning with Keyword Extraction for Event Detection in Social Media. 2018,		1
380	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. 2018, 10, 67		44
379	Ball-milling preparation of titanium/graphene composites and its enhanced hydrogen storage ability. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19164-19173	6.7	16
378	Contribution of upcycling surplus hydrogen to design a sustainable supply chain: The case study of Northern Spain. 2018, 231, 777-787		28
377	Synergistic electrocatalytic effect of Pd and Rh nanoislands co-deposited on Au(poly) on HER in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19420-19431	6.7	9
376	Fabrication of Pt-doped carbon aerogels for hydrogen storage by radiation method. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19174-19181	6.7	9
375	Impact of Strontium-Substitution on Oxygen Evolution Reaction of Lanthanum Nickelates in Alkaline Solution. 2018, 165, J3236-J3245		16
374	Electrocatalytic characterization of NiFe ₃ O ₄ overlayers for hydrogen evolution reaction in alkaline solution. 2018, 1		1
373	Designing Porous Structures and Active Sites in Carbon-Based Electrocatalysts. 2018, 77-99		
372	Metal Nanoparticle-Catalyzed Hydrogen Generation from Liquid Chemical Hydrides. 2018, 91, 1606-1617		37
371	Effect of anodes-cathodes inter-distances of HHO fuel cell on gasoline engine performance operating by a blend of HHO. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19213-19221	6.7	14
370	Electrocatalytic Properties of Nickel Foam-Based Ni-Mo, Ni +Mo and Ni+Mo/Ni-Mo Electrodes for Hydrogen Evolution Reaction. 2018, 921, 134-140		3

369	Novel process for preparation of metal-polymer composite membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12146-12152	6.7	16
368	Crystallinity Dependence of Ruthenium Nanocatalyst toward Hydrogen Evolution Reaction. 2018 , 8, 5714-5720		107
367	Photocatalytic Hydrogen Evolution over Ni ₂ P/TiO ₂ for Full-Spectrum Solar Energy Conversion. 2018 , 57, 7846-7854		35
366	Catalytic performance of M@Ni (M = Fe, Ru, Ir) core-shell nanoparticles towards ammonia decomposition for CO _x -free hydrogen production. 2018 , 20, 1		6
365	Hydrogen and syngas production from catalytic steam gasification of char derived from ion-exchangeable Na- and Ca-loaded coal. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12034-12048	6.7	21
364	Evidence of nano-galvanic couple formation on in-situ formed nano-aluminum amalgam surfaces for passivation-bypassed water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10878-10886	6.7	5
363	Effect of Li ₂ CoMn ₃ O ₈ Nanostructures Synthesized by a Combustion Method on Montmorillonite K10 as a Potential Hydrogen Storage Material. 2018 , 122, 16498-16509		68
362	A Robust Fiber Bragg Grating Hydrogen Gas Sensor Using Platinum-Supported Silica Catalyst Film. 2018 , 2018, 1-8		3
361	Study on Molasses Concentration from Sugarcane Bagasse for Biohydrogen Production using Enriched Granular Activated Carbon (GAC) Immobilised Cells by Repeated Batch Cultivation. 2018 , 34, 02044		1
360	Beneficial Effects of Graphene on Hydrogen Uptake and Release from Light Hydrogen Storage Materials. 2018 , 229-262		
359	Facile fabrication of NiTiO ₃ /graphene nanocomposites for photocatalytic hydrogen generation. 2018 , 365, 86-93		45
358	Intensification of the combustion process in a gasoline engine by adding a hydrogen-containing gas. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16334-16343	6.7	14
357	Improving the utilization factor of a PEM electrolyzer powered by a 15 MW PV park by combining wind power and battery storage [Feasibility study]. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16468-16478	6.7	16
356	Hydrogen Production from Methanol Steam Reforming over TiO ₂ and CeO ₂ Pillared Clay Supported Au Catalysts. 2018 , 8, 176		13
355	Ultralow Overpotential of Hydrogen Evolution Reaction using Fe-Doped Defective Graphene: A Density Functional Study. 2018 , 10, 4450-4455		10
354	Preparation, characterization and hydrogen production performance of MoPd deposited carbon felt/Mo electrodes. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10530-10539	6.7	17
353	Hydrogen effects on the diesel engine performance and emissions. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10511-10519	6.7	77
352	A critical review on design aspects and developmental status of metal hydride based thermal machines. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17753-17779	6.7	49

351	Synergistic Effect in Photoelectrochemical Hydrogen Evolution by RGO-Supported Nickel Molybdenum Catalysts. 2018 , 3, 8955-8961		2
350	Optimal activated carbon for separation of CO ₂ from (H ₂ + CO ₂) gas mixture. 2018 , 15, 625-633		4
349	A state-of-the-art review of biohydrogen producing from sewage sludge. 2018 , 42, 4301-4312		14
348	Influence of addition of hydrogen produced on board in the performance of a stationary diesel engine. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17889-17897	6.7	20
347	Nickel-cobalt-oxide cathodes for hydrogen production by water electrolysis in acidic and alkaline media. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12917-12928	6.7	23
346	Optimization of a closed-loop HHO production system for vehicles and houses. 2019 , 38, 268-277		2
345	Geothermal energy use in hydrogen production: A review. 2019 , 43, 7823		29
344	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. 2019 , 11, 15984-15990		19
343	In-situ visualization of hydrogen evolution sites on helium ion treated molybdenum dichalcogenides under reaction conditions. 2019 , 3,		21
342	Moving from acridinium to pyridinium: From complex to simple. 2,4,6-Triphenylpyridine and 2,4,6-triphenylpyrilium perchlorate as metal-free electrocatalysts of hydrogen evolution reaction (HER): The influence of the nature of the heteroatom and acid on the pathway HER. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21495-21505	6.7	5
341	Mechanistic Study on the Photogeneration of Hydrogen by Decamethylruthenocene. 2019 , 25, 12769-12779		4
340	Enhanced reversible hydrogen storage in nickel nano hollow spheres. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22032-22038	6.7	9
339	Shaping well-defined noble-metal-based nanostructures for fabricating high-performance electrocatalysts: advances and perspectives. 2019 , 6, 2582-2618		36
338	Intensive investigation on hydrogen storage properties and reaction mechanism of the NaBH ₄ -Li ₃ AlH ₆ destabilized system. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21965-21978	6.7	9
337	The potential role of green hydrogen production in the South Africa energy mix. 2019 , 11, 044301		10
336	Development of tungsten doped Ni-Zn nano-ferrites with fast response and recovery time for hydrogen gas sensing application. 2019 , 15, 102531		18
335	Water-Dissociation-Assisted Electrolysis for Hydrogen Production in a Salinity Power Cell. 2019 , 7, 13023-13030		0
334	Microstructure and improved hydrogen storage properties of Mg ₈₅ Zn ₅ Ni ₁₀ alloy catalyzed by Cr ₂ O ₃ nanoparticles. 2019 , 134, 295-306		5

333	Regulating Electrocatalysts via Surface and Interface Engineering for Acidic Water Electrooxidation. 2019 , 4, 2719-2730		124
332	An extended Kozeny-Carman-Klinkenberg model for gas permeability in micro/nano-porous media. 2019 , 31, 112001		7
331	. 2019 ,		
330	Biochar-Assisted Water Electrolysis. 2019 , 33, 11246-11252		9
329	External stimulus controlled recombination of hydrogen in photochromic dithienylethene frustrated lewis pairs. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31141-31152	6.7	4
328	Effect of boron substitution on hydrogen storage in Ca/DCV graphene: A first-principle study. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 27511-27528	6.7	19
327	Grafting Poly(acrylic acid) from PEDOT To Control the Deposition and Growth of Platinum Nanoparticles for Enhanced Electrocatalytic Hydrogen Evolution. 2019 , 2, 1436-1444		7
326	Ti/TiO ₂ /Cu ₂ O electrodes for photocatalytic applications: Synthesis and characterization. 2019 ,		3
325	Hydrogen Fuel Exhaling ZnBerricyanide Redox Flow Battery. 2019 , 7, 16241-16246		4
324	ZnO/In ₂ S ₃ /CoBi ternary composite photoanodes for enhanced photoelectrochemical properties. 2019 , 30, 18943-18949		6
323	Pure hydrogen production by steam reforming of methane mixtures with various propane contents in a membrane reactor with the industrial nickel catalyst and a PdRu alloy foil. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26396-26404	6.7	15
322	Experimental and Modeling Study of the Fabrication of Mg Nano-Sculpted Films by Magnetron Sputtering Combined with Glancing Angle Deposition. 2019 , 9, 361		6
321	Investigation of the microstructure, crystal structure and hydrogenation kinetics of Ti-V-Cr alloy with Zr addition. 2019 , 785, 1115-1120		8
320	Palladium/Bismuth/Copper Hierarchical Nano-Architectures for Efficient Hydrogen Evolution and Stable Hydrogen Detection. 2019 , 11, 6248-6256		17
319	Synthesis and characterization of epoxy/graphite/nano-copper nanocomposite for the fabrication of bipolar plate for PEMFCs. 2019 , 9, 11-18		11
318	Thermochemical Route for Biohydrogen Production. 2019 , 187-218		3
317	Efficient hydrogen storage with the combination of metal Mg and porous nanostructured material. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16824-16832	6.7	7
316	High oxygen evolution reaction activity on lithiated nickel oxides - Activity descriptors. 2019 , 318, 809-819		1

315	High-sensitivity and fast-response fiber-tip Fabry-Pérot hydrogen sensor with suspended palladium-decorated graphene. 2019 , 11, 15821-15827		23
314	Green synthesis, characterization and investigation of the electrochemical hydrogen storage properties of Dy ₂ Ce ₂ O ₇ nanostructures with fig extract. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20110-20120	6.7	49
313	Phase and Vacancy Modulation in Tungsten Oxide: Electrochemical Hydrogen Evolution. 2019 , 6, 3420-3428		18
312	A DFT study of H ₂ adsorption on Pd _n /SnO ₂ (110) surfaces (n = 1-10). 2019 , 92, 1		1
311	Simulation and characterization of hydrogen evolution reaction on porous Ni Cu electrode using surface response methodology. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13296-13309	6.7	15
310	Catalyst modification strategies to enhance the catalyst activity and stability during steam reforming of acetic acid for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12983-13010	6.7	38
309	Energetic and economic analysis of a stand alone photovoltaic system with hydrogen storage. 2019 , 142, 316-329		30
308	Anodic fabrication of nanostructured Cu _x S and CuNi _x S thin films and their hydrogen evolution activities in acidic electrolytes. 2019 , 43, 7674-7682		7
307	Fast responding hydrogen gas sensors using platinum nanoparticle modified microchannels and ionic liquids. 2019 , 1072, 35-45		23
306	Comparison of optimum design, sizing, and economic analysis of standalone photovoltaic/battery without and with hydrogen production systems. 2019 , 141, 107-123		22
305	Hydrogen evolution reaction on bimetallic Ir/Pt(poly) electrodes in alkaline solution. 2019 , 306, 18-27		13
304	Fabrication, characterization and application of three-dimensional copper nanodomains as efficient cathodes for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14108-14116	6.7	11
303	Three-dimensional graphene surface-mounted nickel-based metal organic framework for oxygen evolution reaction. 2019 , 305, 338-348		30
302	Carbon Nanotube-Supported MoSe ₂ Holey Flake:MoC Ball Hybrids for Bifunctional pH-Universal Water Splitting. 2019 , 13, 3162-3176		89
301	Metabolic engineering for the optimization of hydrogen production in Escherichia coli: A review. 2019 , 37, 616-633		14
300	Supercritical water gasification of wastewater sludge for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10328-10349	6.7	59
299	Hydrogen production by Escherichia coli during anaerobic utilization of mixture of lactose and glycerol: Enhanced rate and yield, prolonged production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9272-9281	6.7	15
298	Thermodynamic and exergoeconomic analyses of a proton exchange membrane fuel cell (PEMFC) system and the feasibility evaluation of integrating with a proton exchange membrane electrolyzer (PEME). 2019 , 186, 487-499		58

297	Hydrogen production from aluminum-water reactions subject to varied pressures and temperatures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11448-11458	6.7	31
296	First principles study of H ₂ adsorption on Ni-decorated silicene. 2019 , 6, 055509		8
295	Modeling and thermo-economic optimization of a new multi-generation system with geothermal heat source and LNG heat sink. 2019 , 189, 153-166		51
294	Effects of interfacial structure of PdPt nanoparticles on hydrogen solubility. 2019 , 791, 1263-1269		8
293	Simple fabrication of Pr ₂ Ce ₂ O ₇ nanostructures via a new and eco-friendly route; a potential electrochemical hydrogen storage material. 2019 , 791, 792-799		70
292	Synergy of Nb Doping and Surface Alloy Enhanced on Water-Alkali Electrocatalytic Hydrogen Generation Performance in Ti-Based MXene. 2019 , 6, 1900116		43
291	Seed Pretreatment for Increased Hydrogen Production Using Mixed-Culture Systems with Advantages over Pure-Culture Systems. <i>Energies</i> , 2019 , 12, 530	3.1	30
290	Transition-Metal-Doped RuIr Bifunctional Nanocrystals for Overall Water Splitting in Acidic Environments. 2019 , 31, e1900510		261
289	Low Temperature Hydrogen Production by Ethanol Steam Reforming over Supported Metal Catalysts in an Electric Field. 2019 , 62, 264-271		1
288	Flexible hydrogen sensor based on Pd/TiO ₂ nanofilm with fast response. 2019 , 634, 012002		2
287	Less defective graphene aerogel and its application in microwave-assisted biomass pyrolysis to prepare H ₂ -rich gas. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27236-27240	13	4
286	Techno-economic study of hydrogen production using PV, wind power and battery storage. 2019 ,		
285	Niobium disulphide (NbS ₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25593-25608	13	30
284	Production of bio-hydrogen from dairy wastewater using pretreated landfill leachate sludge as an inoculum. 2019 , 127, 150-159		16
283	In-situ synthesis of AgNbO ₃ /g-CN photocatalyst via microwave heating method for efficiently photocatalytic H ₂ generation. 2019 , 534, 163-171		105
282	Research of performance and emission indicators of the compression-ignition engine powered by hydrogen - Diesel mixtures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10129-10138	6.7	28
281	Performance assessment of solar-powered high pressure proton exchange membrane electrolyzer: A case study for Erzincan. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9701-9707	6.7	4
280	Improving the hydrogen sensing properties of SnO ₂ nanowire-based conductometric sensors by Pd-decoration. 2019 , 285, 358-367		64

279	A Schottky-junction-based platinum nanoclusters@silicon carbide nanosheet as long-term stable hydrogen sensors. 2019 , 473, 641-648		8
278	Effects of Fe doping on the photoelectrochemical properties of CuO photoelectrodes. 2019 , 163, 59-66		10
277	Photocatalytic Gas Phase Reactions. 2019 , 31, 597-618		50
276	Synthesis of dysprosium cerate nanostructures using Phoenix dactylifera extract as novel green fuel and investigation of their electrochemical hydrogen storage and Coulombic efficiency. 2019 , 215, 480-487		37
275	Hydrogen Generation in an Annular Micro-Reactor: an Experimental Investigation of Water Splitting Reaction Using Aluminum in Presence of Potassium Hydroxide. 2019 , 17,		
274	Potassium Hydroxide Activated Hydrogen Generation Using Aluminum in Water Splitting Reaction. 2019 , 17,		1
273	Dual-phase membrane reactor for hydrogen separation with high tolerance to CO ₂ and H ₂ S impurities. 2019 , 65, 1088-1096		25
272	A review on the role, cost and value of hydrogen energy systems for deep decarbonisation. 2019 , 101, 279-294		176
271	Adaptive neuro-fuzzy inference system (ANFIS) based model predictive control (MPC) for carbon dioxide reforming of methane (CDRM) in a plug flow tubular reactor for hydrogen production. 2019 , 9, 148-161		11
270	High performance n+p-Si/Ti/NiS O photocathode for photoelectrochemical hydrogen evolution in alkaline solution. 2019 , 30, 101-107		8
269	The changing role of diesel oil-gasoil-LPG and hydrogen based fuels in human health risk: A numerical investigation in ferry ship operations. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3660-3669	6.7	11
268	Study on an original cobalt-chlorine thermochemical cycle for nuclear hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26090-26103	6.7	7
267	Active block copolymer layer on carboxyl-functionalized PET film for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18676-18684	6.7	2
266	Review on the interface engineering in the carbonaceous titania for the improved photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7584-7615	6.7	24
265	Hydrogen evolution reaction of metal di-chalcogenides: ZrS ₂ , ZrSe ₂ and Janus ZrSSe. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23920-23927	6.7	11
264	Hydrogen evolution and oxygen evolution reactions of pristine and alkali metal doped SnSe ₂ monolayer. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18657-18665	6.7	10
263	Effect of ammonia and boron modifications on the surface and hydrogen sorption characteristics of activated carbons from coal. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10494-10506	6.7	11
262	Hydrogen chloride removal from hydrogen gas by adsorption on hydrated ion-exchanged zeolites. 2020 , 381, 122512		18

261	Biohydrogen production from waste materials: benefits and challenges. 2020 , 17, 559-576		24
260	Study of the synthesis of PMMA-Mg nanocomposite for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4743-4753	6.7	8
259	Modeling, system identification and design of fuzzy PID controller for discharge dynamics of metal hydride hydrogen storage bed. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4703-4719	6.7	10
258	Defect enhanced CoP/Reduced graphene oxide electrocatalytic hydrogen production with pt-like activity. 2020 , 265, 118576		26
257	Investigating hydrogen evolution reaction properties of a new honeycomb 2D ALC. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18602-18611	6.7	2
256	Methods for Electrocatalysis. 2020 ,		0
255	The potential and economic viability of hydrogen production from the use of hydroelectric and wind farms surplus energy in Brazil: A national and pioneering analysis. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1373-1384	6.7	22
254	Conductively monolithic polypyrrole 3-D porous architecture with micron-sized channels as superior salt-resistant solar steam generators. 2020 , 206, 110347		63
253	Control of the substituent at the nitrogen atom in a 2,4,6-triphenylpyridinium perchlorates tunes the electrocatalytic hydrogen evolution mechanism and efficiency. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 501-507	6.7	1
252	Simulation and optimization of hydrogen production by steam reforming of natural gas for refining and petrochemical demands in Lebanon. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33235-33247	6.7	11
251	Alkali Halide Boost of Carbon Nitride for Photocatalytic H Evolution in Seawater. 2020 , 12, 48526-48532		9
250	Sol-gel Synthesis of Ce _{0.8} Sr _{0.2} Co _{1-(x+y)} Ni _x Fe _y O ₃ -[(x = 0.1, 0.2, and y = 0.2, 0.5, 0.7)] Nanocomposite-Type Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Media. 2020 , 11, 628-641		
249	Formation of porous Ni surface by electrodeposition and dissolution in molten salt. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28252-28259	6.7	2
248	Optoelectronic properties of the novel perovskite materials LiPb(Cl:Br:I) ₃ for enhanced hydrogen production by visible photo-catalytic activity: Theoretical prediction based on empirical formulae and DFT. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33466-33477	6.7	4
247	Highly Porous MIL-100(Fe) for the Hydrogen Evolution Reaction (HER) in Acidic and Basic Media. 2020 , 5, 18941-18949		23
246	TaS, TaSe, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. 2020 , 10, 3313-3325		33
245	Low temperature electrochemical production of hydrogen: Challenge in anode and cathode materials. 2020 , 135-169		
244	Hydrogen Fuel Cell Vehicle Development in China: An Industry Chain Perspective. 2020 , 8, 2000179		13

243	A New Combustion Method in a Burner with Three Separate Jets. 2020 ,		1
242	Improvement of Multilevel DC/DC Converter for E-Mobility Charging Station. 2020 , 9, 2037		3
241	Potential Liquid-Organic Hydrogen Carrier (LOHC) Systems: A Review on Recent Progress. <i>Energies</i> , 2020 , 13, 6040	3.1	40
240	Amine-Containing Membranes with Functionalized Multi-Walled Carbon Nanotubes for CO/H Separation. 2020 , 10,		7
239	Hydrogen from biomass. 2020 , 43-73		0
238	Optimal design and global sensitivity analysis of a 100% renewable energy sources based smart energy network for electrified and hydrogen cities. 2020 , 223, 113252		19
237	Unravelling Crystal Superstructures and Transformations in the $\text{La}_{6-x}\text{MoO}_{12}[(0.6-x)\text{B}]\text{O}$ Series: A System with Tailored Ionic/Electronic Conductivity. 2020 , 32, 7052-7062		1
236	Valence Alignment of Mixed Ni-Fe Hydroxide Electrocatalysts through Preferential Templating on Graphene Edges for Enhanced Oxygen Evolution. 2020 , 14, 11327-11340		23
235	Interface Engineering with Ultralow Ruthenium Loading for Efficient Water Splitting. 2020 , 12, 36177-36185		11
234	Defect-rich $\text{MoS}_2/\text{r-GO}$ hybrid via microwave-assisted solvothermal process for efficient electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22459-22468	6.7	5
233	Assessment of supercritical water gasification process for combustible gas production from thermodynamic, environmental and techno-economic perspectives: A review. 2020 , 226, 113497		22
232	Nano High-Entropy Materials: Synthesis Strategies and Catalytic Applications. 2020 , 1, 2000033		37
231	Hydrogen Adsorption/Desorption Properties of Anhydrous Metal Oxalates; Metal = Mg^{2+} and Ca^{2+} . 2020 , 93, 985-987		0
230	People's Attitude to Energy from Hydrogen from the Point of View of Modern Energy Technologies and Social Responsibility. <i>Energies</i> , 2020 , 13, 6495	3.1	28
229	On the Way of Policy Making to Reduce the Reliance of Fossil Fuels: Case Study of Iran. 2020 , 12, 10606		8
228	Hierarchical Ti-Based MOF with Embedded RuO_2 Nanoparticles: a Highly Efficient Photoelectrode for Visible Light Water Oxidation. 2020 , 8, 18366-18376		9
227	Catalytic Dehydrogenative Cyclization of o-Teraryls under pH-Neutral and Oxidant-Free Conditions. 2020 , 59, 15249-15253		11
226	Catalytic Dehydrogenative Cyclization of o-Teraryls under pH-Neutral and Oxidant-Free Conditions. 2020 , 132, 15361-15365		2

225	Functionalized Graphitic Carbon Nitride Decorated with Palladium: an Efficient Heterogeneous Catalyst for Hydrogenation Reactions Using KHCO as a Mild and Noncorrosive Source of Hydrogen. 2020 , 5, 12302-12312		7
224	Hydrogen vs. Battery in the Long-term Operation. A Comparative Between Energy Management Strategies for Hybrid Renewable Microgrids. 2020 , 9, 698		12
223	Robust scheduling of hydrogen based smart micro energy hub with integrated demand response. 2020 , 267, 122041		76
222	Enhanced hydrogen gas production from mixture of beer spent grains (BSG) and distiller's grains (DG) with glycerol by Escherichia coli. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 17233-17240	6.7	6
221	Hydrogen oxidation reaction response of noble-metal based bulk metallic glasses. 2020 , 353, 136616		3
220	Spatially decoupled hydrogen evolution in alkaline conditions with a redox targeting-based flow battery. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18888-18894	6.7	6
219	The prospect and challenges of renewable hydrogen production in Iraq. 2020 , 737, 012197		2
218	FeCoNiP Alloy Nanoparticles Integrated on Vertically Aligned Phosphorus-doped Single-walled Carbon Nanotubes for Overall Water Splitting. 2020 , 167, 102515		5
217	Highly efficient ternary hierarchical NiV ₂ S ₄ nanosphere as hydrogen evolving electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 21308-21318	6.7	3
216	Functional use of CO ₂ for environmentally benign production of hydrogen through catalytic pyrolysis of polymeric waste. 2020 , 399, 125889		15
215	Support ionic liquid-heteropolyacid hybrid on mesoporous carbon aerogel with a high surface area for highly efficient desulfurization under mild conditions. 2020 , 305, 110392		6
214	Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. 2020 , 44, 12343-12354		9
213	Metalloenzyme mimic: diironhexacarbonyl cluster coupled to redox-active 4-mercapto-1,8-naphthalic anhydride ligands. 2020 , 45, 577-581		1
212	Advanced integrated systems for hydrogen production and storage from low-rank fuels. 2020 , 115-146		
211	Synergic effect of heat and light on the catalytic reforming of methanol over Cu/x-TiO ₂ (x=La, Zn, Sm, Ce) nanocatalysts. 2020 , 594, 117456		10
210	Multi-Level DC/DC Converter for E-Mobility Charging Stations. 2020 , 8, 48774-48783		7
209	Ideal two-dimensional molecular sieves for gas separation: Metal trihalides MX ₃ with precise atomic pores. 2020 , 602, 117786		4
208	Facile fabrication of novel AgS/K-g-CN composite and its enhanced performance in photocatalytic H evolution. 2020 , 568, 117-129		82

207	Co ^{III} P composite nanocatalysts for hydrogen generation from the hydrolysis of alkaline sodium borohydride solution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10745-10753	6.7	8
206	Ru ^{II} /Al ₂ O ₃ bimetallic catalysts with high catalytic activity for N-propylcarbazole hydrogenation. 2020 , 10, 2268-2276		11
205	Microalgal biovalorization. 2020 , 319-342		1
204	Determination of resource curse hypothesis in mediation of financial development and clean energy sources: Go-for-green resource policies. 2020 , 66, 101640		29
203	Catalytic Acceptorless Dehydrogenation of Aliphatic Alcohols. 2020 , 142, 4493-4499		61
202	Waste-to-energy nexus for circular economy and environmental protection: Recent trends in hydrogen energy. 2020 , 713, 136633		129
201	CFD simulation and experimental study of a hydrogen leak in a semi-closed space with the purpose of risk mitigation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9231-9240	6.7	21
200	Design of C N -Based Hybrid Heterojunctions for Enhanced Photocatalytic Hydrogen Production Activity. 2020 , 13, 876-881		12
199	Ti(IV)-containing aluminophosphate material TAPO-25 for photoelectrochemical water oxidation. 2020 , 486, 110876		1
198	The study of highly mineralized peat sedimentation products in terms of their use as an energy source. 2020 , 271, 117593		3
197	Gd-doped ceria enhanced triple-conducting membrane for efficient hydrogen separation. 2021 , 256, 117798		5
196	A hybrid fuel cell system integrated with methanol steam reformer and methanation reactor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2565-2576	6.7	8
195	Ligand effects on structural, protophilic and reductive features of stannylated dinuclear iron dithiolato complexes. 2021 , 45, 36-44		5
194	Li-doped fullerene pillared graphene nanocomposites for enhancing hydrogen storage: A computational study. 2021 , 186, 110023		11
193	Hydrogen production through water splitting at low temperature over Fe ₃ O ₄ pellet: Effects of electric power, magnetic field, and temperature. 2021 , 211, 106606		16
192	Modelling of one-dimensional heterogeneous catalytic steam methane reforming over various catalysts in an adiabatic packed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 5112-5130	6.7	6
191	Steam Conversion of Propane in a Membrane Reactor with a Commercial Nickel Catalyst. 2021 , 61, 92-100		0
190	Formate-Bicarbonate Cycle as a Vehicle for Hydrogen and Energy Storage. 2021 , 14, 1258-1283		9

189	Experimental evaluation of the role of oxygen on the growth of MgOx nano-sculpted thin films synthesized by reactive magnetron sputtering combined with glancing angle deposition. 2021 , 718, 138480		1
188	Visible-light-enhanced catalytic hydrolysis of ammonia borane using RuP2 quantum dots supported by graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3811-3820	6.7	9
187	Investigations on a platinum catalyzed membrane for electrolysis step of copper-chlorine thermochemical cycle for hydrogen production. 2021 , 45, 5912-5921		1
186	Intensification of hydrogen generation through liquid metal gallium in water splitting reaction using aluminum in presence of potassium hydroxide. 2021 , 208, 126-136		1
185	A photoassisted hydrogen peroxide fuel cell using dual photoelectrodes under tandem illumination for electricity generation. 2021 , 881, 114948		3
184	Size-selective synthesis of platinum nanoparticles on transition-metal dichalcogenides for the hydrogen evolution reaction. 2021 , 57, 2879-2882		23
183	Hydrogen Production by Utilizing Bio-Processing Techniques. 2021 , 169-193		0
182	The Role of Hydrogen in the Black Sea for the Future Energy Supply Security of Turkey. 2021 , 1-15		27
181	Exergy analysis. 2021 , 43-60		1
180	Simultaneous improvement of kinetics and thermodynamics based on SrF2 and SrF2@Gr additives on hydrogen sorption in MgH2. 2021 , 2, 4277-4290		1
179	Spectroscopic and transport properties of Ba- and Ti-doped BaLaInO4. 2021 , 52, 980-987		3
178	Thermochemical analysis of dry methane reforming hydrogen production in biomimetic venous hierarchical porous structure solar reactor for improving energy storage. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7733-7744	6.7	16
177	Nanostructured TiO2 -Based Hydrogen Evolution Reaction (HER) Electrocatalysts: A Preliminary Feasibility Study in Electrolytic Remediation with Hydrogen Recovery. 2021 , 227-249		
176	Sulfur conversion and distribution during supercritical water gasification of sewage sludge. 2021 , 95, 61-68		6
175	Co-overexpression of the malate dehydrogenase (Mdh) and the malic enzyme A (MaeA) in several Escherichia coli mutant backgrounds increases malate redirection towards hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15337-15350	6.7	0
174	Reaction and hydrogen production phenomena of ethanol steam reforming in a catalytic membrane reactor. 2021 , 220, 119737		6
173	Biohydrogen Production from Cellulosic Waste Biomass. 2021 , 47-68		1
172	Evaluation of interfacial pH change during water splitting at pulsed regime using finite element method. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17644-17652	6.7	3

171	Ba ²⁺ /Ti ⁴⁺ co-doped layered perovskite BaInO ₄ : The structure and ionic (O ₂ /H ⁺) conductivity. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16868-16877	6.7	4
170	Highly efficient hybrid electrocatalyst Fe _{4.5} Ni _{4.5} S ₈ /Fe ₇ S ₈ extracted from nickel ore for hydrogen evolution reaction. 2021 , 47, 12002-12009		6
169	Pristine hexagonal CdS assembled with NiV LDH nanosheet formed p-n heterojunction for efficient photocatalytic hydrogen evolution. 2021 , 548, 149212		23
168	N-enriched porous carbon doped with Co, Ni, and Mo as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18318-18325	6.7	4
167	Wind and Solar Intermittency and the Associated Integration Challenges: A Comprehensive Review Including the Status in the Belgian Power System. <i>Energies</i> , 2021 , 14, 2630	3.1	3
166	Assessment of natural gas/hydrogen blends as an alternative fuel for industrial heat treatment furnaces. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21672-21686	6.7	4
165	Facile synthesis of SnO ₂ nanostructures for enhanced electrochemical hydrogen evolution reaction. 2021 , 865, 158597		3
164	Techno-Economic Evaluation of Photocatalytic H ₂ S Splitting. 2021 , 9, 2100163		1
163	Enhancement in the catalytic activity of two-dimensional BCN by B, Si and P doping for hydrogen evolution and oxygen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 22478-22498	6.7	2
162	Hexagonal boron nitride (h-BN) nanosheet as a potential hydrogen adsorption material: A density functional theory (DFT) study. 2021 , 24, 101043		11
161	Synthesis of Ultrathin and Grid-Structural Carbon Nanosheets Coupled with Mo C for Electrocatalytic Hydrogen Production. 2021 , 16, 2107-2112		3
160	Impact of product gas impurities from dehydrogenation of perhydro-dibenzyltoluene on the performance of a 10 th PdAg-membrane. 2021 , 628, 119094		1
159	Local initiative hydrogen production by utilization of aluminum waste materials and natural acidic hot-spring water. 2021 , 293, 116909		2
158	Investigation of Performance and Emission Parameters of Hydroxygen (HHO)-Enriched Diesel Fuel with Water Injection in the Compression Ignition Engine. 2021 , 3, 537-562		0
157	Availability, versatility, and viability of feedstocks for hydrogen production: Product space perspective. 2021 , 145, 110843		22
156	Optimal design of wind-powered hydrogen refuelling station for some selected cities of South Africa. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24919-24930	6.7	10
155	Porous Ni ₂ O surface formation and analysis of hydrogen generation by gas sensor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 26263-26271	6.7	1
154	Boosting solar driven hydrogen evolution rate of CdS nanorods adorned with MoS ₂ and SnS ₂ nanostructures. 2021 , 43, 100437		3

153	Response Surface Methodology Routed Optimization of Performance of Hydroxy Gas Enriched Diesel Fuel in Compression Ignition Engines. 2021 , 9, 1355	1
152	Artificial Neural Network Led Optimization of Oxyhydrogen Hybridized Diesel Operated Engine. 2021 , 13, 9373	4
151	A novel approach to measuring science-technology linkage: From the perspective of knowledge network coupling. 2021 , 15, 101167	1
150	New Equivalent Electrical Model of a Fuel Cell and Comparative Study of Several Existing Models with Experimental Data from the PEMFC Nexa 1200 W. 2021 , 12,	1
149	Modeling and Simulation of Prereformed Naphtha and Methane Steam Reforming in a Catalytic Membrane Reactor. 2021 , 60, 13661-13673	2
148	Effects of catalysts on water decomposition and hydrogen oxidation reactions in oxygen transport membrane reactors. 2021 , 634, 119394	0
147	The electronic properties and catalytic activity of precious-metals adsorbed silicene for hydrogen evolution reaction and oxygen evolution reaction. 2021 , 560, 150041	5
146	Emerging Photocatalysts for Hydrogen Production. 2022 , 647-671	0
145	The effect of calcination temperature on the electrocatalytic activity of NiCoFe-oxide and NiCoRu-oxide anodes in the oxygen evolution reaction in alkaline medium. 2021 , 119, 106703	2
144	Grand Canonical Monte Carlo Simulations to Determine the Optimal Interlayer Distance of a Graphene Slit-Shaped Pore for Adsorption of Methane, Hydrogen and their Equimolar Mixture. 2021 , 11,	0
143	Towards high-performance electrocatalysts and photocatalysts: Design and construction of MXenes-based nanocomposites for water splitting. 2021 , 421, 129944	9
142	Chemical synthesis of a microsphere-like copper molybdate electrode for oxygen evolution reaction. 2021 , 26, 101425	1
141	A review of recent advances in electrode materials for emerging bioelectrochemical systems: From biofilm-bearing anodes to specialized cathodes. 2021 , 283, 131138	13
140	Continuous aqueous phase reforming of wastewater streams: A catalyst deactivation study. 2021 , 305, 121506	2
139	In situ coupled MoO ₃ with CoP/rGO to construct three-dimensional self-supported catalyst for highly efficient alkaline hydrogen evolution reaction. 2022 , 104, 194-201	2
138	Selenium tethered copper phthalocyanine hierarchical aggregates as electrochemical hydrogen evolution catalysts. 2021 , 5, 3617-3631	0
137	Operational challenges for low and high temperature electrolyzers exploiting curtailed wind energy for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7 11
136	Electrical Conductivity of BaLaIn _{0.9} M _{0.1} O _{3.95} (M = Mg, Zn) New Complex Oxides with the Ruddlesden-Popper Structure. 2021 , 57, 60-67	2

135	Cellulose as Sacrificial Biomass for Photocatalytic Hydrogen Evolution over One-dimensional CdS Loaded with NiS ₂ as a Cocatalyst. 2020 , 5, 1470-1477		4
134	Exergy Analysis of Green Energy Systems. 2011 , 17-65		8
133	Interface Chemistry of Platinum-Based Materials for Electrocatalytic Hydrogen Evolution in Alkaline Conditions. 2020 , 453-473		2
132	Glycerol Fermentation and Molecular Hydrogen Production by Escherichia Coli Batch Cultures Affected by Some Reducing Reagents and Heavy Metal Ions. 2013 , 153-163		1
131	Flow control based 5 MW wind turbine enhanced energy production for hydrogen generation cost reduction. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	4
130	Catalyst-Integrated Gas Diffusion Electrodes for Polymer Electrolyte Membrane Water Electrolysis: Porous Titanium Sheets with Nanostructured TiO ₂ Surfaces Decorated with Ir Electrocatalysts. 2020 , 167, 124523		4
129	Response Characteristics of Silicon Microring Resonator Hydrogen Gas Sensor. 2019 , 139, 2-6		3
128	EVALUATING THE CRUCIAL FACTORS AFFECTING HYDROGEN GAS GENERATION FROM MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH (MSWIBA). 2018 , 2, 150		2
127	Synthesis and Characterization of the Cu _{0.72} Co _{2.28} O ₄ Catalyst for Oxygen Evolution Reaction in an Anion Exchange Membrane Water Electrolyzer. 2020 , 58, 49-58		7
126	Hydrogen Fuel Cell Technology for the Sustainable Future of Stationary Applications. <i>Energies</i> , 2019 , 12, 4593	3.1	87
125	Effect of Process Parameters on Hydrogen Production and Efficiency in Biomass Gasification using Modelling Approach. 2010 , 10, 3183-3190		26
124	Development of Dedicated Lubricant for Hydrogen Fuelled Spark Ignition Engine.		3
123	The grand canonical Monte Carlo simulation of hydrogen physisorption on single-walled carbon nanotubes at the low and normal temperatures. 2013 , 62, 038801		3
122	Designing of noble metal free high performance mesoporous electrocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	2
121	Multi-dimensional applications of graphitic carbon nitride nanomaterials A review. 2021 , 344, 117820		3
120	Introduction. 2013 , 3-23		
119	Vidaus degimo variklio darbo efektyvumo didinimas panaudojant Brauno dujas. 2013 ,		3
118	Bibliography. 2016 , 421-458		

- 117 BIOFUEL AND HYDROGEN INFLUENCE FOR OPERATION PARAMETERS OF SPARK IGNITION ENGINE / BIODEGALIR VANDENILIO ĄAKA KIBIRKTINIO UDEGIMO VARIKLIO VEIKIMO RODIKLIAMS. **2016**, 8, 526-532
- 116 Wire-array-applied ultrafine tungsten wire coated with AlMg alloy layer via electron beam evaporation. **2017**, 95, 185-189
- 115 Release of chemisorbed hydrogen from carbon nanotubes: Insights from ab-initio molecular dynamics simulations. *International Journal of Hydrogen Energy*, **2017**, 42, 21191-21197 6.7 2
- 114 Introduction to hydrogen technology applications. **2018**, 363-365
- 113 Research on biodiesel and hydrogen co-combustion process in compression ignition engine. **2019**, 2
- 112 Utilization of carbon nanotubes in hydrogen electrosynthesis from tropical fruit fermentation. **2020**, 25,
- 111 Novel materials and technologies for hydrogen storage. **2020**, 337-365
- 110 Performance Evaluation of Hydrogen-Fuelled Internal Combustion Engine. **2021**, 177-192
- 109 Influence of biomass waste from agro-industries on obtaining energetic gases assisted by chronoamperometric process. *International Journal of Hydrogen Energy*, **2021**, 47, 735-735 6.7 0
- 108 Enhanced Stability of B-Site W Doped Pr_{0.6}Sr_{0.4}Fe_{1-x}W_xO_{3- λ} Ceramic Membranes for Water Splitting. **2020**, 657-668
- 107 The function of porous working electrodes for hydrogen production from water splitting in non-thermal plasma reactor. **2022**, 310, 122156 2
- 106 Investigation of Novel Configuration of Hydrogen Micromix Combustor for Low NO_x Emission. **2020**, 1
- 105 Rod-Shaped FeOOH Synthesis for Hydrogen Production under Light Irradiation. **2021**, 6, 30562-30568 3
- 104 Environmental Scope. **2008**, 637-653
- 103 Effect of Noble Metals on Hydrogen Sensing Properties of Metal Oxide-based Gas Sensors. **2020**, 29, 365-368 2
- 102 Recent Advances in Liquid Organic Hydrogen Carriers: An Alcohol-Based Hydrogen Economy. 14712-14726 6
- 101 Hydrogenation of cyclohexene catalyzed by nanoporous SPE-PtNi/C membrane electrode. *International Journal of Hydrogen Energy*, **2021**, 6.7
- 100 Analysis of biomimetic hierarchical porous structure regulating radiation field to improve solar thermochemical performance based on minimum Gibbs free energy. *International Journal of Hydrogen Energy*, **2021**, 47, 2832-2832 6.7 5

99	Economic evaluation of fuel cell-powered OFF-ROAD machinery using stochastic analysis. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 2771-2782	6.7	0
98	A review on underground hydrogen storage: Insight into geological sites, influencing factors and future outlook. 2022 , 8, 461-499		19
97	Effect of Nickel Precursor on the Catalytic Performance of Graphene Aerogel-Supported Nickel Nanoparticles for the Production of CO _x -free Hydrogen by Ammonia Decomposition. 2100794		1
96	Development of cobalt catalyst supported on MgO□n2O3 (Ln = La, Nd, Eu) mixed oxide systems for ammonia synthesis. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 6666-6678	6.7	5
95	Environmental sustainability of alternative marine propulsion technologies powered by hydrogen - a life cycle assessment approach.. 2022 , 820, 153189		1
94	Prospects of enhancing the understanding of material-hydrogen interaction by novel in-situ and in-operando methods. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	
93	General aspects in the modeling of fuel cells: from conventional fuel cells to nano fuel cells. 2022 , 77-121		0
92	Hydrogen Fuel: Clean Energy Production Technologies. 2022 , 133-154		0
91	World water crisis and possible solutions. 2022 , 1-37		0
90	Electrocatalytic proton reduction by dinuclear cobalt complexes in a nonaqueous electrolyte. 2022 , 46, 6027-6038		0
89	Two-dimensional titanium carbonitride MXene as a highly efficient electrocatalyst for hydrogen evolution reaction. 2022 , 2, 100075		2
88	Co-Mn-B Nanoparticles Supported on Epoxy-Based Polymer as Catalyst for Evolution of H ₂ from Ammonia Borane Semi-Methanolysis. 2022 , 51, 2356-2368		0
87	Bifunctional WC-Supported RuO ₂ Nanoparticles for Robust Water Splitting in Acidic Media.. 2022 ,		9
86	Bifunctional WC-Supported RuO ₂ Nanoparticles for Robust Water Splitting in Acidic Media.		
85	A review on hydrogen generation by phthalocyanines. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 12865-12881	6.7	3
84	A review on Chemical Looping Water Splitting (CLWS) as a potential alternative to Steam Methane Reforming (SMR) for hydrogen production. 2022 , 2208, 012015		0
83	Bimetal Mo□Ni/NC as an effective electrocatalyst with accelerated kinetics for the oxygen evolution reaction. 2022 , 165, 110651		0
82	Energy and Emissions Saving in Urban Guided Transport Systems: Effectiveness and Assessment of Hydrogen-Based Solutions. 2022 , 1-17		

81	Supraparticles for Bare-Eye H ₂ Indication and Monitoring: Design, Working Principle, and Molecular Mobility. 2112379		3
80	Exchange current density of reversible solid oxide cell electrodes. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	0
79	Upconverting Nanoparticles in Pollutant Degradation and Hydrogen Generation. 2022 , 449-491		
78	Substrate effect on hydrogen evolution reaction in two-dimensional MoC monolayers.. 2022 , 12, 6076		0
77	Enhanced Hydrogen Production at Optimum pH for the Recovery Cycle of FeOOH.. 2022 , 7, 16049-16054		1
76	A Glimpse on the plethora of applications of prodigious material MXene. 2022 , e00439		0
75	Copper-doped activated carbon from amorphous cellulose for hydrogen, methane and carbon dioxide storage. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	1
74	The use of avocado seed self-assembly monolayer films for the catalysis of methanol electrooxidation reaction.		
73	Enhancement of biohydrogen production by employing a packed-filter bioreactor (PFBR) utilizing sulfite-rich organic effluent obtained from a washing process of beverage manufactures. 2022 , 161, 106451		0
72	Reduced graphene oxide supported zinc/cobalt oxide nanoparticles as highly efficient electrocatalyst for oxygen evolution reaction. 2022 , 539, 121008		1
71	Highly dispersed platinum on LaNi nanoparticles/nanoporous carbon for highly efficient electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	1
70	Covalent Organic Frameworks-Based Membranes as Promising Modalities from Preparation to Separation Applications: An Overview.		0
69	Corrosion performance of carbide/nitride/oxide (C/N/O)-based reactor during thermochemical hydrogen production by Na redox reaction. 2022 , 165732		
68	Water Splitting Using Semiconductor Photocatalysts. 2022 , 1349-1367		
67	Achievement of excellent hydrogen sorption through swift hydrogen transport in 1:2 Mg(NH ₂) ₂ ·2H ₂ O catalyzed by Li ₄ BH ₄ (NH ₂) ₃ and carbon nanostructures. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	1
66	CdS/VS ₂ Heterostructured Nanoparticles as Efficient Visible-Light-Driven Photocatalysts for Boosting Hydrogen Evolution.		
65	Anion exchange membrane water electrolysis using Aemion [®] membranes and nickel electrodes. <i>Journal of Materials Chemistry A</i> ,	13	5
64	Interface-assisted phase transition in MOF-derived MoS ₂ /CoS ₂ heterostructures for highly efficient dual-pH hydrogen evolution and overall water splitting. <i>Journal of Materials Chemistry A</i> ,	13	0

63	Photocatalytic Water Splitting for Hydrogen Production?. <i>Acta Chimica Sinica</i> , 2022 , 80, 827	3.3	0
62	Support Effect in Bimetallic Particles PtNi for Hydrogen Oxidation Reaction in Alkaline Media. <i>Topics in Catalysis</i> ,	2.3	0
61	Rational design of W-doped BiVO ₄ photoanode coupled with FeOOH for highly efficient photoelectrochemical catalyzing water oxidation. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	0
60	Safe Ventilation Methods against Leaks in Hydrogen Fuel Cell Rooms in Homes. <i>Energies</i> , 2022 , 15, 5434	3.1	1
59	Permeation barriers for hydrogen embrittlement prevention in metals: A review on mechanisms, materials suitability and efficiency. 2022 ,		3
58	Development of compact and efficient volumetric apparatus for measuring absorption/desorption properties of hydrogen storage materials. 2022 ,		0
57	High capacity hydrogen storage on zirconium decorated Graphyne: A systematic first-principles study. 2022 ,		1
56	Experimental optimization analysis on operating conditions of CO removal process from hydrogen-rich reformat. 2022 ,		0
55	Nanoarchitectonic manganese-cobalt phosphide through zeolitic imidazolate framework for efficient electrocatalysis in hydrogen evolution reaction. 2022 , 926, 166991		0
54	Titania Hybrid Carbon Spherogels for Photocatalytic Hydrogen Evolution.		0
53	Conversion of Biogas Generated from Anaerobic Digestion of Food Waste to Electricity Using Internal Combustion Engine and Fuel Cell. 2022 , 53-91		0
52	Formation of LaNi ₅ Hydrogen Storage Alloy by Electrodeposition of La Using Molten Salt. 2022 , 12, 1268		0
51	Accelerated bubble departure and reduced overpotential with nanoengineered porous bifunctional Ni ₅ P ₄ electrocatalyst for PV-driven water splitting. 2022 ,		0
50	Fabrication of Ag/TiO ₂ nanotube array as active electrocatalyst for the hydrogen evolution reaction. 2022 , 17, 999-1010		1
49	Effect of Fe on the Hydrogen Production Properties of Al-Bi-Sn Composite Powders. 2022 , 15, 6702		0
48	Hydrogen Separation with a Graphenylene Monolayer: Diffusion Monte Carlo Study.		0
47	Electronic Properties and Electrocatalytic Water Splitting Activity for Precious-Metal-Adsorbed Silicene with Nonmetal Doping. 2022 , 7, 33156-33166		0
46	H ₂ and CO adsorption ability of cationic lithiated carbenes: A computational study. 2022 ,		0

45	Improvement in Performance of CI Engine Running with Dual Fuel Mode: Biodiesel & Hydrogen. 33-39	0
44	Progress, Barriers, and Prospects for Achieving a Hydrogen Society and Opportunities for Biochar Technology.	0
43	Study on Hydriding Kinetics, Structural Properties and Electrical Conductivity of D.C. Magnetron Sputtered Mg/Al Thin Films. 338, 83-90	0
42	Peony flower-like $\text{Cu}_2\text{S}@ \text{NiMn}$ LDH heterostructure as an efficient electrocatalyst for the oxygen evolution reaction. 2022 ,	0
41	Effect of Pt Addition on the Formation of NiPt Porous Layer. 2022 , 12, 1645	1
40	Optimization of the Laminate Structure of a Composite Cylinder Based on the Combination of Response Surface Methodology (RSM) and Finite Element Analysis (FEA). 2022 , 27, 7361	1
39	Influence of a Hydride-Forming Multi-Component Alloy on the Carbonization Behavior of Vulcanized Elastomer Composites. 2022 , 12, 1847	0
38	Fe-Cu-Rh ternary alloy nanofibers as an outstanding pH-universal electrocatalyst for hydrogen evolution reaction: The catalytic roles of Fe depending on pH. 2022 , 155484	0
37	Titania hybrid carbon spherogels for photocatalytic hydrogen evolution. 2022 ,	0
36	Recent update on gasification and pyrolysis processes of lignocellulosic and algal biomass for hydrogen production. 2023 , 332, 126169	0
35	Numerical simulation and application of photofermentative bio-hydrogen production system. 2023 , 15-63	0
34	Synthesis, crystal structure and properties of electro-catalysis for hydrogen production of a molecular nickel catalyst based on bis(1,2,5-thiadiazole-3,4-dithiolate) ligand. 2023 , 1274, 134501	0
33	Room-temperature hydrogen gas sensor composed of palladium thin film deposited on NiCo_2O_4 nanoneedle forest. 2023 , 376, 132958	2
32	Hydrogen adsorption in nanotube and cylindrical pore: A grand canonical Monte Carlo simulation study. 2022 ,	0
31	Feasibility analysis of hydrogen production potential from rooftop solar power plant for industrial zones in Vietnam. 2022 , 8, 14089-14101	0
30	Photoredox (NN) $\text{Mn}(\text{I})$ Catalysed Acceptorless Dehydrogenation: Synthesis of Amides and Carbonyls.	0
29	Effect of Combined Hole Storage and Blocking Interfaces on the Photoelectrochemical Water Splitting Performance of BiVO_4 Photoanodes.	0
28	On the effect of metal loading on the performance of Co catalysts supported on mixed $\text{MgO} \text{a}_2\text{O}_3$ oxides for ammonia synthesis. 2022 , 12, 33876-33888	2

- 27 Sustainable and Mild Catalytic Acceptorless Dehydrogenations. ○
- 26 Defects and doping engineered two-dimensional o-B₂N₂ for hydrogen evolution reaction catalyst: Insights from DFT simulation. **2022**, ○
- 25 Investigation of transition metal (Fe, Ni, Co) complexes based on 1,10-phenanthroline as electrocatalysts for hydrogen evolution reaction. ArticleID:221227 ○
- 24 Advanced Photoelectrochemical Hydrogen Generation by CdO-g-C₃N₄ in Aqueous Medium under Visible Light. **2022**, 27, 8646 ○
- 23 Nanomaterials as Photocatalysts Synthesis and Their Potential Applications. **2023**, 16, 193 2
- 22 Impact of the lanthanide size on the polymorphism and electrical properties of Ln_{5.4}MoO_{11.1} (Ln = Nd, Sm and Gd). **2022**, ○
- 21 The effect of copper coated metal hydride at different ratios on the reaction kinetics. **2022**, ○
- 20 Graphene-Based Derivatives Heterostructured Catalytic Systems for Sustainable Hydrogen Energy via Overall Water Splitting. **2023**, 13, 109 2
- 19 Hydrogen ortho-para conversion: process sensitivities and optimisation. **2023**, 184, 109272 ○
- 18 The effect of hydrogen addition on methane/air explosion characteristics in a 20-L spherical device. **2023**, 338, 127351 ○
- 17 Hydrogen production from syngas. **2023**, 27-43 ○
- 16 Business Operation Optimization of Electricity Hydrogen Integrated Station Based on Multi-agent Game Analysis. **2022**, ○
- 15 Random Forest Approach to Resilience-Oriented Infrastructure Post-Disruption Repair Optimization. **2022**, ○
- 14 Electronic properties and hydrogen evolution reaction performance of silicene with precious metal-doped nonmetal ring: first-principles calculations. **2023**, 58, 4487-4498 ○
- 13 Enhanced H₂ permeation and CO₂ tolerance of self-assembled ceramic-metal-ceramic BZCYb-Ni-CeO₂ hybrid membrane for hydrogen separation. **2023**, ○
- 12 Exploring Mg decorated antimonene for promising hydrogen storage material: A DFT outlook. **2023**, 161, 107471 ○
- 11 Algal Biohydrogen Production: Opportunities and Challenges. **2023**, 77-103 ○
- 10 Tuning of magnetic, electronic and electrolytic water properties of silicene supported precious-metal by non-metal doping and vacancy defect. **2023**, 38, 100486 ○

- 9 Application of transition metal high entropy boride in electrocatalytic hydrogen evolution reaction. **2023**, 0
- 8 Sustainable Energy Research Trend: A Bibliometric Analysis Using VOSviewer, RStudio Bibliometrix, and CiteSpace Software Tools. **2023**, 15, 3618 1
- 7 Transition metal atoms anchored 2D holey graphyne for hydrogen evolution reaction: Acumen from DFT simulation. **2023**, 0
- 6 Visible Light Promoted Iron-Catalyzed One-Pot Synthesis of 2-Arylimino-2 H- Chromenes from 2-Hydroxybenzyl Alcohols and β -Ketothioamides at Room Temperature. **2023**, 26, 0
- 5 A Review on Research and Technology Development of Green Hydrogen Energy Systems with Thermal Management and Heat Recovery. 1-23 0
- 4 Technoeconomic Optimization of a Photovoltaic Wind Energy-Based Hydrogen Refueling Station: A Case Study. 0
- 3 Enhanced green H₂ generation using biomass-derived nitrogen-doped carbon dots incorporated with rare earth metal hydroxide [Gd(OH)₃] nanorods. **2023**, 0
- 2 Hydrogen Storage in North America: Status, Prospects, and Challenges. **2023**, 109957 0
- 1 A comprehensive and policy-oriented model of the hydrogen vehicle fleet composition, applied to the UK market. 0