

CITATION REPORT

List of articles citing

Bipolar plates for PEM fuel cells: A review

DOI: 10.1016/j.ijhydene.2005.04.016

International Journal of Hydrogen Energy, 2005, 30, 1297-1300

Source: <https://exaly.com/paper-pdf/38439759/citation-report.pdf>

Version: 2024-04-19

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

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

#	Paper	IF	Citations
672	Study of electrodeposited polypyrrole coatings for the corrosion protection of stainless steel bipolar plates for the PEM fuel cell. <i>Journal of Power Sources</i> , 2006 , 158, 397-402	8.9	75
671	Performance of PEMFC stack using expanded graphite bipolar plates. <i>Journal of Power Sources</i> , 2006 , 160, 252-257	8.9	51
670	Preparation and properties of high performance nanocomposite bipolar plate for fuel cell. <i>Journal of Power Sources</i> , 2006 , 162, 309-315	8.9	46
669	An investigation into polypyrrole-coated 316L stainless steel as a bipolar plate material for PEM fuel cells. <i>Journal of Power Sources</i> , 2006 , 163, 500-508	8.9	93
668	Boronization of nickel and nickel clad materials for potential use in polymer electrolyte membrane fuel cells. 2006 , 201, 4436-4441		15
667	Numerical optimization of bipolar plates and gas diffusion layers for PEM fuel cells. 2006 , 36, 991-996		10
666	Effect of conducting fillers on the microstructure and electrical conductivity of thermoplastic polymer composites. 2006 , 57, 199-206		10
665	Performance of an aluminate cement /graphite conductive composite bipolar plate. <i>Journal of Power Sources</i> , 2006 , 159, 1078-1083	8.9	19
664	TOPSIS multiple-criteria decision support analysis for material selection of metallic bipolar plates for polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2006 , 159, 1095-1104	8.9	238
663	Voltage loss in bipolar plates in a fuel cell stack. <i>Journal of Power Sources</i> , 2006 , 160, 431-435	8.9	22
662	Testing and evaluation of aluminum coated bipolar plates of pem fuel cells operating at 70 °C. <i>Journal of Power Sources</i> , 2006 , 163, 509-513	8.9	55
661	PEM fuel cells: status and challenges for commercial stationary power applications. 2006 , 58, 45-49		24
660	The formation of protective nitride surfaces for PEM fuel cell metallic bipolar plates. 2006 , 58, 50-57		50
659	Material issues for fuel cell applications. 2007 , 24, 197-203		1
658	Fuell Cell and Hydrogen Vehicles - State of the Art and Challenges for Improved Materials. 2007 , 539-543, 1321-1326		1
657	Electrochemical Investigations of Al-Carbon Hybrid Bipolar Plate Materials for Polymer Electrolyte Fuel Cells. 2007 , 75, 187-189		1
656	New Metal Separators Coated with Carbon/Resin Composite Layers for PEFCs. 2007 , 75, 213-216		2

655	Materials for State-of-the-Art PEM Fuel Cells, and Their Suitability for Operation Above 100°C. 2007 , 1, 235-336		19
654	Effect of Resin Matrix Precursor on the Properties of Graphite Composite Bipolar Plate for PEM Fuel Cell. 2007 , 21, 1681-1687		23
653	Brennstoffe und Brennstoffzellen: Der richtige Weg vom Brennstoff zum Brenngas. 2007 , 79, 2029-2033		
652	General relations for power generated and lost in a fuel cell stack. 2007 , 53, 1346-1352		4
651	An investigation of the electrochemical properties of PVD TiN-coated SS410 in simulated PEM fuel cell environments. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 895-902	6.7	105
650	Differences in physico-mechanical behaviors of resol(e) and novolac type phenolic resin based composite bipolar plate for proton exchange membrane (PEM) fuel cell. 2007 , 52, 7330-7336		58
649	Metal separators coated with carbon/resin composite layers for PEFCs. 2007 , 53, 2025-2033		21
648	Metal bipolar plates for PEM fuel cell – a review. <i>Journal of Power Sources</i> , 2007 , 163, 755-767	8.9	505
647	An investigation into TiN-coated 316L stainless steel as a bipolar plate material for PEM fuel cells. <i>Journal of Power Sources</i> , 2007 , 165, 293-298	8.9	142
646	Improvement on the corrosion protection of conductive polymers in pemfc environments by adhesives. <i>Journal of Power Sources</i> , 2007 , 168, 184-190	8.9	28
645	Proton exchange membrane fuel cell from low temperature to high temperature: Material challenges. <i>Journal of Power Sources</i> , 2007 , 167, 235-242	8.9	425
644	Niobium-clad 304L stainless steel PEMFC bipolar plate material: Tensile and bend properties. <i>Journal of Power Sources</i> , 2007 , 168, 408-417	8.9	29
643	Feasibility investigations on a novel micro-manufacturing process for fabrication of fuel cell bipolar plates: Internal pressure-assisted embossing of micro-channels with in-die mechanical bonding. <i>Journal of Power Sources</i> , 2007 , 172, 725-733	8.9	81
642	Development of preform moulding technique using expanded graphite for proton exchange membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2007 , 171, 396-403	8.9	35
641	Corrosion protection of 304 stainless steel bipolar plates using TiC films produced by high-energy micro-arc alloying process. <i>Journal of Power Sources</i> , 2007 , 171, 778-782	8.9	70
640	Protective nitride formation on stainless steel alloys for proton exchange membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2007 , 174, 228-236	8.9	42
639	Polymeric materials for fuel cells: concise review of recent studies. 2007 , 18, 785-799		129
638	Fermentation, gasification and pyrolysis of carbonaceous residues towards usage in fuel cells. 2007 , 48, 2203-2220		16

637	Materials for bipolar plates for proton-conducting membrane fuel cells. 2007 , 77, 752-765		6
636	Effects of O ₂ and H ₂ on the corrosion of SS316L metallic bipolar plate materials in simulated anode and cathode environments of PEM fuel cells. 2007 , 52, 6793-6798		91
635	High-temperature, polymer/graphite hybrid composites for bipolar plates: Effect of processing conditions on electrical properties. <i>Journal of Power Sources</i> , 2007 , 163, 702-707	8.9	62
634	Surface modifications of aluminum alloy 5052 for bipolar plates using an electroless deposition process. <i>Journal of Power Sources</i> , 2008 , 183, 174-181	8.9	39
633	Optimization of the polypyrrole-coating parameters for proton exchange membrane fuel cell bipolar plates using the Taguchi method. <i>Journal of Power Sources</i> , 2008 , 185, 226-232	8.9	17
632	A novel design and micro-fabrication for copper (Cu) electroforming bipolar plates. 2008 , 39, 263-8		38
631	Fuels and Fuel Cells: The Right Way/From Fuels to Fuel Gas. 2008 , 31, 782-787		1
630	Status and development of PEM fuel cell technology. <i>International Journal of Energy Research</i> , 2008 , 32, 369-378	4.5	101
629	Review: Durability and Degradation Issues of PEM Fuel Cell Components. 2008 , 8, 3-22		708
628	The development of a small PEMFC combined heat and power system. <i>Journal of Power Sources</i> , 2008 , 176, 499-514	8.9	52
627	Study on the mesocarbon microbeads/polyphenylene sulfide composite bipolar plates applied for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2008 , 175, 390-396	8.9	32
626	An investigation into the effects of a nano-thick gold interlayer on polypyrrole coatings on 316L stainless steel for the bipolar plates of PEM fuel cells. <i>Journal of Power Sources</i> , 2008 , 175, 40-48	8.9	29
625	Performance of a metallic gas diffusion layer for PEM fuel cells. <i>Journal of Power Sources</i> , 2008 , 176, 293-298	8.9	74
624	Development and characterization of a miniature PEM fuel cell stack with carbon bipolar plates. <i>Journal of Power Sources</i> , 2008 , 176, 207-214	8.9	25
623	Process modification for coating SnO ₂ :F on stainless steels for PEM fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2008 , 178, 238-247	8.9	32
622	Austenitic stainless steels in high temperature phosphoric acid. <i>Journal of Power Sources</i> , 2008 , 180, 803-807	8.9	31
621	Hygrothermal effects on properties of highly conductive epoxy/graphite composites for applications as bipolar plates. <i>Journal of Power Sources</i> , 2008 , 182, 223-229	8.9	21
620	Surface modification of a natural graphite/phenol formaldehyde composite plate with expanded graphite. <i>Journal of Power Sources</i> , 2008 , 183, 571-575	8.9	11

619	Characterization of a liquid feed direct methanol fuel cell with Sierpinski carpets fractal current collectors. <i>Journal of Power Sources</i> , 2008 , 184, 180-190	8.9	21
618	Electrochemical properties of TiN coatings on 316L stainless steel separator for polymer electrolyte membrane fuel cell. 2008 , 516, 3669-3672		50
617	Corrosion behavior of austenitic stainless steels as a function of pH for use as bipolar plates in polymer electrolyte membrane fuel cells. 2008 , 53, 4205-4212		90
616	Production of metallic glassy bipolar plates for PEM fuel cells by hot pressing in the supercooled liquid state. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5678-5685	6.7	29
615	Carbon-Filled Polymer Blends for PEM Fuel Cell Bipolar Plates. 2008 , 1-25		
614	Modeling the Flow Field Plates. 2008 , 269-298		
613	Characterization studies on PEM metallic bipolar plates and membrane electrode assembly. 2008 ,		
612	Corrosion and contact resistance measurements of different bipolar plate material for Polymer Electrolyte Membrane Fuel Cells. 2008 , 2, 72		5
611	Development of Porous Electrode Gas Diffusion Layers for Proton Exchange Membrane Fuel Cells. 2008 , 5,		3
610	Electrochemical Behavior of CrN Coated on 316L Stainless Steel in Simulated Cathodic Environment of Proton Exchange Membrane Fuel Cell. 2008 , 47, 6887-6890		21
609	Characteristics of Expanded Graphite Filled Conductive Polymer Composites for PEM Fuel Cell Bipolar Plates. 2008 , 17, 259-275		1
608	Hydrogen-based Autonomous Power Systems. 2008 ,		4
607	Characterization of Expanded Graphite/Flake-Type Graphite Filled Conductive Polymer Composites. 2008 , 33-37, 515-520		4
606	An Evaluation of Electrical and Thermal Conductivity and Mechanical Behaviors of a Silicon Rubber based Composite Material for PEM Fuel Cell. 2009 ,		
605	Effects of Carbon Fillers on Rheology of Polypropylene-based Resins. 2009 , 43, 3073-3089		18
604	Characteristics and Preparation of Polymer/Graphite Composite Bipolar Plate for PEM Fuel Cells. 2009 , 43, 755-767		8
603	Corrosion Resistance, Cell Performance and Long-term Stability of Metal Bipolar Plates for Direct Methanol Fuel Cell. 2009 , 25, 861-867		
602	Electrical conductivity of carbon-filled polypropylene-based resins. 2009 , 112, 425-433		30

601	Nielsen thermal conductivity model for single filler carbon/polypropylene composites. 2009 , 114, 3261-3267		23
600	Optimization design of slotted-interdigitated channel for stamped thin metal bipolar plate in proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2009 , 187, 407-414	8.9	18
599	Experimental and thermodynamic approach on proton exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2009 , 190, 356-361	8.9	55
598	Surface modification of stainless steel bipolar plates for PEMFC (proton exchange membrane fuel cell) application. 2009 , 23, 462-467		1
597	Electrochemical characteristics of 316L stainless steel processed with a thermally treated Ni- and Cr-rich surface coating. 2009 , 15, 37-42		3
596	Microstructure of chromium nitride layer on stainless steel for polymer electrolyte membrane fuel cell separator. 2009 , 15, 273-278		4
595	Effect of dimensional error of metallic bipolar plate on the GDL pressure distribution in the PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 990-997	6.7	40
594	Investigation of water droplet kinetics and optimization of channel geometry for PEM fuel cell cathodes. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3104-3111	6.7	58
593	Electrical contact resistance between stainless steel bipolar plate and carbon felt in PEFC: A comprehensive study. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3125-3133	6.7	53
592	Conductive amorphous carbon-coated 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6771-6777	6.7	87
591	The electrical and corrosion properties of carbon nanotube coated 304 stainless steel/polymer composite as PEM fuel cell bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9781-9787	6.7	40
590	Effect of bias voltage on the electrochemical properties of TiN coating for polymer electrolyte membrane fuel cell. 2009 , 517, 4772-4776		32
589	Durability and characterization studies of polymer electrolyte membrane fuel cell coated aluminum bipolar plates and membrane electrode assembly. <i>Journal of Power Sources</i> , 2009 , 186, 123-127	8.9	29
588	Characterization of a direct methanol fuel cell using Hilbert curve fractal current collectors. <i>Journal of Power Sources</i> , 2009 , 187, 112-122	8.9	21
587	Plasma nitrided titanium as a bipolar plate for proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2009 , 187, 500-504	8.9	24
586	Anticorrosion properties of Ta-coated 316L stainless steel as bipolar plate material in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2009 , 191, 495-500	8.9	25
585	Performance of gold-coated titanium bipolar plates in unitized regenerative fuel cell operation. <i>Journal of Power Sources</i> , 2009 , 194, 972-975	8.9	96
584	Application of Ni-free high nitrogen stainless steel for bipolar plates of proton exchange membrane fuel cells. 2009 , 54, 1127-1133		31

583	The electrical conductivity of a composite bipolar plate for fuel cell applications. 2009 , 47, 2413-2418	34
582	Corrosion characteristics of polyaniline-coated 316L stainless steel in sulphuric acid containing fluoride. 2009 , 51, 330-338	73
581	Effect of thermal treatment on the corrosion resistance of polyaniline in H ₂ SO ₄ /HF acid mixture solution. 2009 , 51, 3007-3013	35
580	Nanotechnology for Fuel Cells. 2009 , 151-183	1
579	FUEL CELLS PROTON-EXCHANGE MEMBRANE FUEL CELLS Bipolar Plates. 2009 , 810-816	11
578	Influence of Metallic Bipolar Plates on the Durability of Polymer Electrolyte Fuel Cells. 2009 , 243-255	1
577	A review of metal separator plate materials suitable for automotive PEM fuel cells. 2009 , 2, 206-214	91
576	Effect of annealing on two different niobium-clad stainless steel PEMFC bipolar plate materials. 2009 , 19, s56-s60	6
575	A Mathematical Model for the Corrosion of Metallic Bipolar Plates in PEM Fuel Cells: Numerical and Experimental Issues. 2009 , 70, 579-599	7
574	3D Modeling of Four-Points Probe Method: Application to Characterisation of Fuel Cell Bipolar Plates. 2009 ,	
573	Investigation of Elastomer Graphite Composite Material for Proton Exchange Membrane Fuel Cell Bipolar Plate. 2009 , 6,	7
572	State-of-the-art in bipolar of proton exchange membrane fuel cell. 2010 ,	
571	Corrosion, Contact Resistance, and Surface Characteristics of Stamped and Hydroformed Metallic Bipolar Plates for PEMFC. 2010 ,	1
570	Electrochemical behavior of CrN coating for polymer electrolyte membrane fuel cell. 2010 , T139, 014016	2
569	Electrical and corrosion properties of stainless steel bipolar plates coated with a conduction polymer composite. 2010 , 10, S18-S21	15
568	Preparation and properties of functionalized multiwalled carbon nanotubes/polypropylene nanocomposite bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 263-270	8.9 47
567	Corrosion resistance characteristics of stamped and hydroformed proton exchange membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2010 , 195, 3546-3552	8.9 61
566	The preparation technique optimization of epoxy/compressed expanded graphite composite bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 5312-5319	8.9 28

565	Synergy effects of hybrid carbon system on properties of composite bipolar plates for fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 5474-5480	8.9	31
564	A Promising Alternative to PEMFC Graphite Bipolar Plates: Surface Modified Type 304 Stainless Steel with TiN Nanoparticles and Elastic Styrene Butadiene Rubber Particles. 2010 , 10, 545-555		11
563	Conductive Materials for Proton Exchange Membrane Fuel Cell Bipolar Plates Made from PVDF, PET and Co-continuous PVDF/PET Filled with Carbon Additives. 2010 , 10, 938-948		21
562	Reviewing Metallic PEMFC Bipolar Plates. 2010 , 10, 510-519		142
561	Polymer Electrolyte Membrane Fuel Cell (PEMFC) Flow Field Plate: Design, Materials and Characterisation. 2010 , 10, 489-509		117
560	Ex situ evaluation of nanometer range gold coating on stainless steel substrate for automotive polymer electrolyte membrane fuel cell bipolar plate. <i>Journal of Power Sources</i> , 2010 , 195, 1401-1407	8.9	70
559	Annealing induced interfacial layers in niobium-clad stainless steel developed as a bipolar plate material for polymer electrolyte membrane fuel cell stacks. <i>Journal of Power Sources</i> , 2010 , 195, 2592-2598	8.9	5
558	Solvent-assisted graphite loading for highly conductive phenolic resin bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 3794-3801	8.9	23
557	Corrosion properties and contact resistance of TiN, TiAlN and CrN coatings in simulated proton exchange membrane fuel cell environments. <i>Journal of Power Sources</i> , 2010 , 195, 3814-3821	8.9	105
556	Effect of manufacturing processes on formability and surface topography of proton exchange membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2010 , 195, 5269-5277	8.9	114
555	Pre-oxidized and nitrided stainless steel alloy foil for proton exchange membrane fuel cell bipolar plates. Part 2: Single-cell fuel cell evaluation of stamped plates. <i>Journal of Power Sources</i> , 2010 , 195, 5619-5627	8.9	20
554	Nitrogen plasma-implanted titanium as bipolar plates in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 6798-6804	8.9	28
553	Development and performance analysis of a metallic micro-direct methanol fuel cell for high-performance applications. <i>Journal of Power Sources</i> , 2010 , 195, 7338-7348	8.9	37
552	Deposition of gold-titanium and gold-nickel coatings on electropolished 316L stainless steel bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1713-1718	6.7	42
551	Corrosion of metal bipolar plates for PEM fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3632-3647	6.7	325
550	Corrosion resistance of stainless steel bipolar plates in a PEFC environment: A comprehensive study. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3684-3697	6.7	56
549	Performance and long-term stability of Ti metal and stainless steels as a metal bipolar plate for a direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4320-4328	6.7	23
548	Electrochemical and mechanical behavior of carbon composite bipolar plate for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4185-4194	6.7	80

547	Development of cost innovative BPs for a PEMFC stack for a 1kW-class residential power generator (RPG) system. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13131-13136	6.7	10
546	The use of ultrasound for the fabrication of fuel cell materials. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11986-12004	6.7	135
545	Electrochemical properties of TiN/CrN-coated bipolar plates in polymer electrolyte membrane fuel cell environment. 2010 , 518, 6598-6603		22
544	Characterization of electroless Ni-based alloys for use in bipolar plates of direct methanol fuel cells. 2010 , 205, 2251-2255		10
543	Swelling and related mechanical and physical properties of carbon nanofiber filled mesophase pitch for use as a bipolar plate material. 2010 , 48, 3939-3946		8
542	Effects of carbon fillers in thermally conductive polypropylene based resins. <i>Polymer Composites</i> , 2010 , 31, 497-506	3	29
541	Synergy Effects of Conductive Fillers on Elastomer Graphite Composite Material for PEM Fuel Cell Bipolar Plates. 2010 , 44, 1665-1676		3
540	Structural Analysis of Sintered Materials Used for Low-Temperature Fuel Cell Plates. 2010 , 638-642, 536-541		3
539	Influence of Channel Dimensions on Behavior of a Polymer Electrolyte Membrane Fuel Cell. 2010 , 26, 155-165		
538	Effect of Carbon Fillers on the Performance of a Composite Bipolar Plate for Fuel Cells. 2010 , 123-125, 1079-1082		
537	Properties and Application of Sintered Stainless Steel as Interconnectors in Fuel Cell. 2010 , 165, 231-236		
536	Thermal Conductivity of Carbon-filled Polypropylene-based Resins. 2010 , 44, 839-855		30
535	Study on Electrical Conductivity and Mechanical Performance of Polymeric Composite Flow Field Plates for Fuel Cell Applications. 2010 , 17, 633-648		2
534	Optimization of Electrical Conductivity for Composite Bipolar Plates in PEM Fuel Cell. 2010 ,		2
533	Electrical, mechanical and thermal properties of high performance polymer nanocomposite bipolar plates for fuel cells. 2010 , 591-615		0
532	Plasma Nitrided Type 349 Stainless Steel for Polymer Electrolyte Membrane Fuel Cell Bipolar Plate Part I: Nitrided in Nitrogen Plasma. 2010 , 7,		7
531	Plasma Nitrided Type 349 Stainless Steel for Polymer Electrolyte Membrane Fuel Cell Bipolar Plate Part II: Nitrided in Ammonia Plasma. 2010 , 7,		4
530	Fabrication of Metallic Bipolar Plates for Proton Exchange Membrane Fuel Cell by Flexible Forming Process-Numerical Simulations and Experiments. 2010 , 7,		50

529	Transparent PEM Fuel Cells for Direct Visualization Experiments. 2010 , 7,		18
528	Surface modification stainless steel as bipolar plate material for PEMFC. 2010 ,		
527	Carbon coated stainless steel bipolar plates in polymer electrolyte membrane fuel cells. 2010 , 19, 1354-1361		41
526	Highly Active Porous Carbon-Supported Nonprecious Metal \square Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. 2010 , 114, 8048-8053		133
525	Effect of substrate temperature on structural properties and corrosion resistance of carbon thin films used as bipolar plates in polymer electrolyte membrane fuel cells. 2010 , 502, 451-455		20
524	Corrosion behaviour and characteristics of reforming chromized coatings on SS 420 steel in the simulated environment of proton exchange membrane fuel cells. 2010 , 52, 3599-3608		30
523	Pre-oxidized and nitrided stainless steel alloy foil for proton exchange membrane fuel cell bipolar plates: Part 1. Corrosion, interfacial contact resistance, and surface structure. <i>Journal of Power Sources</i> , 2010 , 195, 5610-5618	8.9	34
522	Polypropylene-grafted multi-walled carbon nanotube reinforced polypropylene composite bipolar plates in polymer electrolyte membrane fuel cells. 2011 , 4, 543-550		22
521	A micro-stamping process analysis of metallic bipolar plates channel. 2011 ,		1
520	Optimization of polymer composite forming parameters for bipolar plate fabrication. 2011 ,		1
519	Advances in Sustainable Manufacturing. 2011 ,		16
518	Fabrication of continuous mesoporous organic \square organic nanocomposite films for corrosion protection of stainless steel in PEM fuel cells. 2011 , 53, 1498-1504		23
517	A Review of Thermoplastic Composites for Bipolar Plate Materials in PEM Fuel Cells. 2011 ,		7
516	Corrosion Analysis of Sintered Material Used for Low-Temperature Fuel Cell Plates. 2011 , 56,		17
515	Production of Ni-P Amorphous Alloy-Coated Bipolar Plate for PEM Fuel Cell by Electro-Less Plating. 2011 , 75, 557-561		
514	Production of Ni-P Amorphous Alloy-Coated Bipolar Plate for PEM Fuel Cell by Electro-Less Plating. 2011 , 52, 709-713		9
513	Synthesis of mesoporous carbon-silica-polyaniline and nitrogen-containing carbon-silica films and their corrosion behavior in simulated proton exchange membrane fuel cells environment. <i>Journal of Power Sources</i> , 2011 , 196, 9552-9560	8.9	19
512	Silver implanted 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. 2011 , 126, 6-11		24

511	Corrosion properties and cell performance of CrN/Cr-coated stainless steel 316L as a metal bipolar plate for a direct methanol fuel cell. 2011 , 56, 7602-7609		31
510	Semi-empirical modeling of electrical conductivity for composite bipolar plate with multiple reinforcements. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14851-14857	6.7	20
509	Effect of chemical and heat treatment on the interfacial contact resistance and corrosion resistance of 446M ferritic stainless steel as a bipolar plate for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9926-9935	6.7	13
508	Nonlinear orthotropic model of the inhomogeneous assembly compression of PEM fuel cell gas diffusion layers. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11856-11870	6.7	78
507	Effect of manufacturing processes on contact resistance characteristics of metallic bipolar plates in PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12370-12380	6.7	49
506	Investigation on the corrosion resistance of carbon black/graphite-poly(vinylidene fluoride) composite bipolar plates for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12474-12485	6.7	32
505	Electrochemical nitridation of a stainless steel for PEMFC bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13008-13013	6.7	31
504	Effect of immersion in NaOH solution on ferritic stainless steel as a bipolar plate for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13014-13021	6.7	9
503	Effects of porous and dense electrode structures of membrane electrode assembly on durability of direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15313-15322	6.7	17
502	Effect of manufacturing conditions on the corrosion resistance behavior of metallic bipolar plates in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 1235-1241	8.9	22
501	Arc ion plated Cr/CrN/Cr multilayers on 316L stainless steel as bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 3249-3254	8.9	41
500	Nitride films as protective layers for metallic bipolar plates of polymer electrolyte membrane fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 4565-4572	6.7	20
499	Corrosion behaviour of construction materials for high temperature steam electrolyzers. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 111-119	6.7	47
498	The characteristics and performance of AISI 1045 steel bipolar plates with chromized coatings for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3975-3983	6.7	9
497	An in situ electrochemical soft X-ray spectromicroscopy investigation of Fe galvanically coupled to Au. 2011 , 42, 342-7		15
496	The characteristics of chromized 1020 steel with electrical discharge machining and Ni electroplating pretreatments. 2011 , 257, 3529-3537		14
495	Experimental investigation of the effect of free openings of current collectors on a direct methanol fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 717-728	8.9	18
494	A review of polymer electrolyte membrane fuel cell stack testing. <i>Journal of Power Sources</i> , 2011 , 196, 601-613	8.9	132

493	Studies on the fabrication of metallic bipolar plates using micro electrical discharge machining milling. <i>Journal of Power Sources</i> , 2011 , 196, 2070-2074	8.9	59
492	Influence of CrN-coating thickness on the corrosion resistance behaviour of aluminium-based bipolar plates. <i>Journal of Power Sources</i> , 2011 , 196, 4283-4289	8.9	66
491	Carbon materials in composite bipolar plates for polymer electrolyte membrane fuel cells: A review of the main challenges to improve electrical performance. <i>Journal of Power Sources</i> , 2011 , 196, 2945-2961	8.9	189
490	Characterization and performance of UNS S63019 (21-4N) as bipolar plate material in a simulated polymer electrolyte membrane fuel cell environment. <i>Journal of Power Sources</i> , 2011 , 196, 5922-5927	8.9	5
489	Design and fabrication of light weight current collectors for direct methanol fuel cells using the micro-electro mechanical system technique. <i>Journal of Power Sources</i> , 2011 , 196, 5897-5902	8.9	4
488	Evaluation of silver-coated stainless steel bipolar plates for fuel cell applications. <i>Journal of Power Sources</i> , 2011 , 196, 7649-7653	8.9	8
487	Corrosion Resistance and Electrical Conductivity of TiN/CrN Multilayer Coated Stainless Steel. 2011 , 214, 291-295		
486	Simultaneous Optimization for Multiple Responses on the Compression Moulding Parameters of Composite Graphite /Polypropylene Using Taguchi Method. 2011 , 471-472, 361-366		8
485	Fabrication of Fuel Cells with High Power Density Using Micro Electrical Discharge Machining Milling. 2011 , 335-336, 1237-1241		1
484	Expanded Graphite Epoxy Composite Bipolar Plates for PEM Fuel Cells. 2011 , 41, 1869-1877		2
483	Predicting the thermal conductivity of multiple carbon fillers in polypropylene-based resins. 2011 , 45, 1271-1284		6
482	Dimensional metrology of bipolar fuel cell plates using laser spot triangulation probes. 2011 , 22, 075102		8
481	Design, Optimization, and Fabrication of Slotted-Interdigitated Thin Metallic Bipolar Plates for PEM Fuel Cells. 2011 , 8,		15
480	Graphene Reinforced Composite Bipolar Plate for Polymer Electrolyte Membrane Fuel Cell. 2011 ,		2
479	Effects of Different Particles Sizes of Graphite on the Engineering Properties of Graphites/Polypropylene Composites on Injection Molding Application. 2011 , 471-472, 109-114		2
478	A Review of Metallic Bipolar Plates for Proton Exchange Membrane Fuel Cells: Materials and Fabrication Methods. 2012 , 2012, 1-22		130
477	Percolation threshold study of a plastic/blastomeric matrix based composite material for bipolar plates in proton exchange membrane fuel cells. 2012 , 46, 2959-2971		3
476	Technology of Polyphenylene Sulfide (PPS) Resin/Graphite Conductive Composite for Bipolar Plate. 2012 , 519, 49-52		2

475	Sintered Stainless Steel for Interconnectors for PEM Fuel Cell. 2012 , 706-709, 1047-1051		
474	Effect of inhomogeneous size and shape of graphite particles on the in-plane electrical conductivity of PP/G/CB composites. 2012 , 103, 909-914		2
473	Extended X-ray absorption fine structure (EXAFS) technique for low temperature fuel cell catalysts characterization. 2012 , 3-25		
472	Surface Topography Evolution During Long-Run Micro-Stamping of Bipolar Plates (BPPs) and Effects on Corrosion and Contact Resistance Characteristics. 2012 ,		
471	Current status of hybrid, battery and fuel cell electric vehicles: From electrochemistry to market prospects. 2012 , 84, 235-249		354
470	Current Advances in Polymer Electrolyte Fuel Cells Based on the Promotional Role of Under-rib Convection. 2012 , 12, 908-938		20
469	Effects of hybrid hardener on properties of a composite bipolar plate for polymer electrolyte membrane fuel cells. 2012 , 20, 1124-1130		1
468	Thermodynamic and mechanical properties of lanthanum-magnesium phases from density functional theory. 2012 , 512, 296-310		56
467	Electroless NiCuP/nano-graphite composite coatings for bipolar plates of proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2012 , 220, 130-137	8.9	16
466	Study on surface topography of 446M stainless steel as a bipolar plate on interfacial contact resistance of polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2012 , 220, 42-46	8.9	6
465	Corrosion behavior of pre-oxidized and thermally nitrided stainless steel for polymer electrolyte membrane fuel cell bipolar plates. 2012 , 58, 79-85		29
464	Polymer Electrolyte Membrane Fuel Cells. 2012 , 601-670		7
463	Bipolar Plate Durability and Challenges. 2012 , 249-291		3
462	Carbonaceous Nanomaterials and Polymer Nanocomposites for Fuel Cell Applications. 2012 , 247-284		
461	The effect of pH and halides on the corrosion process of stainless steel bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18537-18546	6.7	31
460	Contact resistance characteristics of coated metallic bipolar plates for PEM fuel cells – investigations on the effect of manufacturing. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18187-18204	6.7	31
459	Experimental Evaluation into Novel, Low cost, Modular PEMFC Stack. 2012 , 29, 567-575		4
458	Graphite foil based assembled bipolar plates for polymer electrolyte fuel cells. 2012 , 13, 2183-2186		10

457	Low-Temperature Fuel Cell Technology for Green Energy. 2012 , 1657-1702		4
456	Materials and Coatings for Metallic Bipolar Plates in Polymer Electrolyte Membrane Fuel Cells. 2012 , 361-378		
455	Computational Study of Thermal, Water and Gas Management in PEM Fuel Cell Stacks. 2012 ,		
454	Corrosion resistance of composites based to graphite used as bipolar plates in fuel cells. 2012 ,		
453	Advanced Construction Materials for High Temperature Steam PEM Electrolysers. 2012 ,		1
452	Alumina/Carbon Nanofibers Nanocomposites Obtained by Spark Plasma Sintering for Proton Exchange Membrane Fuel Cell Bipolar Plates. 2012 , 12, 599-605		7
451	Surface diffusion modification AISI 304SS stainless steel as bipolar plate material for proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1140-1144	6.7	32
450	Electrochemical behavior of surface treated metal bipolar plates used in passive direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 867-872	6.7	12
449	Analysis of the characterization of water produced from proton exchange membrane fuel cell (PEMFC) under different operating thermal conditions. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3890-3896	6.7	13
448	Cross-linked, ETFE-derived and radiation grafted membranes for anion exchange membrane fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 594-602	6.7	81
447	Electrodeposition of ruthenium oxide on ferritic stainless steel bipolar plate for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1653-1660	6.7	19
446	Performance of air-breathing direct methanol fuel cell with Au-coated aluminum current collectors. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2571-2578	6.7	21
445	Effect of different graphite materials on the electrical conductivity and flexural strength of bipolar plates fabricated using selective laser sintering. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3558-3566	6.7	60
444	Molybdenum nitride modified AISI 304 stainless steel bipolar plate for proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5876-5883	6.7	33
443	NiB and NiCoB coated aluminum alloy 5251 substrates as metallic bipolar plates for PEM fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7677-7688	6.7	40
442	Effect of plastic deformation on the corrosion resistance of ferritic stainless steel as a bipolar plate for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8459-8464	6.7	11
441	Protective graphite coating on metallic bipolar plates for PEMFC applications. 2012 , 62, 30-35		33
440	The fabrication of high-aspect-ratio micro-flow channels on metallic bipolar plates using die-sinking micro-electrical discharge machining. <i>Journal of Power Sources</i> , 2012 , 198, 158-163	8.9	43

439	Ex situ and in situ evaluation of carbon ion-implanted stainless steel bipolar plates in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2012 , 199, 207-213	8.9	22
438	Materials selection for bipolar plates for polymer electrolyte membrane fuel cells using the Ashby approach. <i>Journal of Power Sources</i> , 2012 , 206, 3-13	8.9	59
437	Fabrication of micro-flow channels for metallic bipolar plates by a high-pressure hydroforming apparatus. <i>Journal of Power Sources</i> , 2012 , 206, 179-184	8.9	45
436	Support materials for PEMFC and DMFC electrocatalysts: A review. <i>Journal of Power Sources</i> , 2012 , 208, 96-119	8.9	894
435	Synthesis of ordered mesoporous boron-containing carbon films and their corrosion behavior in simulated proton exchange membrane fuel cells environment. <i>Journal of Power Sources</i> , 2012 , 212, 1-12	8.9	43
434	The characteristics and performance of electroless nickel and immersion Au plated aluminum alloy bipolar plates in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2012 , 214, 51-58	8.9	10
433	Material selection windows for hybrid carbons/poly(phenylene sulfide) composite for bipolar plates of fuel cell. 2012 , 31, 537-545		29
432	Carbon supported silver (Ag/C) electrocatalysts for alkaline membrane fuel cells. 2012 , 47, 852-859		30
431	Analysis of the polymer composite bipolar plate properties on the performance of PEMFC (polymer electrolyte membrane fuel cells) by RSM (response surface methodology). 2013 , 55, 1067-1075		42
430	Bipolar electrochemistry. 2013 , 52, 10438-56		460
429	Bipolare Elektrochemie. 2013 , 125, 10632-10651		71
428	A study on the physicochemical properties of a graphite/polybenzoxazine composite for bipolar plate of polymer electrolyte membrane fuel cells. 2013 , 21, 1226-1232		7
427	Study on shape error effect of metallic bipolar plate on the GDL contact pressure distribution in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6762-6772	6.7	41
426	Development of PVD coatings for PEMFC metallic bipolar plates. 2013 , 528, 199-204		59
425	Effect of the compression molding parameters on the in-plane and through-plane conductivity of carbon nanotubes/graphite/epoxy nanocomposites as bipolar plate material for a polymer electrolyte membrane fuel cell. 2013 , 39, 1277-1284		56
424	Effect of microstructure of TiN film on properties as bipolar plate coatings in polymer electrolyte membrane fuel cell prepared by inductively coupled plasma assisted magnetron sputtering. 2013 , 544, 224-229		11
423	Efficient composite bipolar plate reinforced with carbon fiber and graphene for proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9362-9369	6.7	46
422	Investigation of the effects of process sequence on the contact resistance characteristics of coated metallic bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2013 , 243, 925-934	8.9	21

4 ²¹	Corrosion protection of Ti/TiN, Cr/TiN, Ti/CrN, and Cr/CrN multi-coatings in simulated proton exchange membrane fuel cell environment. 2013 , 545, 380-384		35
4 ²⁰	Pd-doped Co nanofibers immobilized on a chemically stable metallic bipolar plate as novel strategy for direct formic acid fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7438-7447	6.7	37
4 ¹⁹	Nanocomposite-carbon coated at low-temperature: A new coating material for metallic bipolar plates of polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14284-14294	6.7	32
4 ¹⁸	Resolving the dilemma of gaining conductivity but losing environmental friendliness in producing polystyrene/graphene composites via optimizing the matrix-filler structure. 2013 , 15, 821		54
4 ¹⁷	C/CrN multilayer coating for polymer electrolyte membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2013 , 222, 351-358	8.9	39
4 ¹⁶	Effects of hybrid carbon fillers of polymer composite bipolar plates on the performance of direct methanol fuel cells. 2013 , 51, 98-105		31
4 ¹⁵	A review of thermoplastic composites for bipolar plate applications. <i>International Journal of Energy Research</i> , 2013 , 37, 283-309	4.5	32
4 ¹⁴	PEM Fuel Cell Materials: Costs, Performance and Durability. 2013 , 249-303		12
4 ¹³	Experimental Investigation of a Novel Design of Proton Exchange Membrane Fuel Cell Stack. 2013 , 34, 925-937		3
4 ¹²	NiP and NiMoP modified aluminium alloy 6061 as bipolar plate material for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2013 , 240, 589-597	8.9	27
4 ¹¹	Molybdenum modified AISI 304 stainless steel bipolar plate for proton exchange membrane fuel cell. 2013 , 5, 021407		17
4 ¹⁰	Surface roughness effect on the metallic bipolar plates of a proton exchange membrane fuel cell. 2013 , 104, 898-904		8
4 ⁰⁹	Fabrication of micro-channel arrays on thin stainless steel sheets for proton exchange membrane fuel cells using micro-stamping technology. 2013 , 64, 1365-1372		15
4 ⁰⁸	Bipolar plates made of carbon fabric/phenolic composite reinforced with carbon black for PEMFC. 2013 , 96, 569-575		26
4 ⁰⁷	Spatial distribution of the electrical conductivity in highly filled polymers: Experiment, modeling, and application to bipolar plates. 2013 , 114, 223710		6
4 ⁰⁶	Nanostructural Characteristics and Electrical Conductivity of Copper Nanoparticles-Polypropylene Nanocomposites for Bipolar Plate Application. 2013 , 634-638, 2214-2217		
4 ⁰⁵	Corrosion Behavior of Construction Materials for Intermediate Temperature Steam Electrolysers. 2013 , 699, 596-605		4
4 ⁰⁴	Tungsten Diffusion Modified AISI 304 Stainless Steel for PEMFC Bipolar Plate. 2013 , 13, 1131-1137		11

403	USE OF MATERIALS FOR INTERCONNECTORS IN FUEL CELLS. 2013 , 06, 1350023		
402	Reversible hydrogen evolution and oxidation mediated by molecular ion. 2013 ,		
401	Nanometers Layered Conductive Carbon Coating on 316L Stainless Steel as Bipolar Plates for More Economical Automotive PEMFC. 2013 ,		
400	Experimental Investigation of a Direct Methanol Fuel Cell with Hilbert Fractal Current Collectors. 2014 , 2014, 1-7		2
399	Preparation of CF Reinforced PPS/Graphite Conductive Composite for Bipolar Plate. 2014 , 875-877, 1245-1249		
398	Effect of process parameters on forming depth of channels in fuel cell bipolar plates fabricated using rubber forming process. 2014 , 18, S2-467-S2-472		5
397	Effect of Clamping Load on the Performance of Proton Exchange Membrane Fuel Cell Stack and Its Optimization Design: A Review of Modeling and Experimental Research. 2014 , 11,		11
396	Evaluation of Silver-coated Magnesium Bipolar Plate for Lightweight PEM Fuel Cell Stack. 2014 , 141111165052003		
395	Carbon-Polymer Composite Bipolar Plate for HT-PEMFC. 2014 , 14, 259-265		9
394	Introduction. 2014 , 1-49		0
393	The Fabrication of a Micro-Channel for Metallic Bipolar Plates Using a Rubber Pad Forming Process. 2014 , 626, 16-26		1
392	Properties of Epoxy/Carbon Black/Graphite Composites for Bipolar Plate in Polymer Electrolyte Membrane Fuel Cell. 2014 , 911, 8-12		4
391	Analysis of operational characteristics of polymer electrolyte fuel cell with expanded graphite flow-field plates via electrochemical impedance investigation. 2014 , 66, 77-81		13
390	Bulk and contact resistances of gas diffusion layers in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014 , 256, 449-456	8.9	39
389	Anticorrosion properties of tin oxide coatings for carbonaceous bipolar plates of proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014 , 249, 503-508	8.9	9
388	Fuel-cell (hydrogen) electric hybrid vehicles. 2014 , 685-735		6
387	Design and manufacturing of stainless steel bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 21127-21153	6.7	96
386	Influences of pH value, temperature, chloride ions and sulfide ions on the corrosion behaviors of 316L stainless steel in the simulated cathodic environment of proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2014 , 272, 448-456	8.9	40

385	Material selection and optimization for highly stable composite bipolar plates in vanadium redox flow batteries. 2014 , 2, 15808-15815		23
384	Hydrogen fuel cell technology. 2014 , 451-498		10
383	Conductive polymer nanocomposites with hierarchical multi-scale structures via self-assembly of carbon-nanotubes on graphene on polymer-microspheres. 2014 , 6, 7877-88		59
382	An investigation on corrosion protection of chromium nitride coated Fe/Cr alloy as a bipolar plate material for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014 , 269, 81-87	8.9	24
381	Electrochemical characteristics and interfacial contact resistance of multi-layered Ti/TiN coating for metallic bipolar-plate of polymer electrolyte membrane fuel cells. 2014 , 20, 629-639		7
380	Fabrication of titanium bipolar plates by rubber forming and performance of single cell using TiN-coated titanium bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 21480-21488	6.7	54
379	Electrophoretic deposition of polypyrrole/Vulcan XC-72 corrosion protection coatings on SS-304 bipolar plates by asymmetric alternating current for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16740-16749	6.7	16
378	Fabrication of stainless steel bipolar plates for fuel cells using dynamic loads for the stamping process and performance evaluation of a single cell. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 21461-21469	6.7	35
377	Effects of type of graphite conductive filler on the performance of a composite bipolar plate for fuel cells. 2014 , 262, 332-336		22
376	The study of electroplating trivalent Cr/C alloy coatings with different current densities on stainless steel 304 as bipolar plate of proton exchange membrane fuel cells. 2014 , 570, 209-214		22
375	Active screen plasma nitriding of 316 stainless steel for the application of bipolar plates in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 21470-21479	6.7	49
374	Ultra high speed curing bipolar plates made of carbon fabric/phenolic composite using acid catalyst for proton exchange membrane fuel cell. 2014 , 108, 1-8		5
373	RETRACTED: A review of composite and metallic bipolar plates in proton exchange membrane fuel cell: Materials, fabrication, and material selection. <i>Journal of Power Sources</i> , 2014 , 265, 370-390	8.9	202
372	Corrosion behavior of TiN, TiAlN, TiAlSiN-coated 316L stainless steel in simulated proton exchange membrane fuel cell environment. <i>Journal of Power Sources</i> , 2014 , 268, 240-245	8.9	46
371	Carbon coating for corrosion protection of SS-316L and AA-6061 as bipolar plates of PEM fuel cells. 2014 , 613, 288-291		17
370	Investigation of stamping process of metallic bipolar plates in PEM fuel cell—numerical simulation and experiments. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13770-13776	6.7	47
369	Water Management in Fuel Cell Stack by Using Microcontroller. 2014 ,		
368	Expanded Graphite/Epoxy/Flexible Silica Composite Bipolar Plates for PEM Fuel Cells. 2014 , 14, 862-867		12

367	Effect of Channel Geometry on Formability of 304 Stainless Steel Bipolar Plates for Fuel Cells Simulation and Experiments. 2015 , 12,		9
366	Fuel Pressure Distribution as a Criterion for the Bipolar Plate Geometry Optimization in PEM Fuel Cells, Modeling and Experiment. 2015 , 15, 639-645		6
365	The effect of gas diffusion layer compression on gas bypass and water slug motion in parallel gas flow channels. 2015 , 61, 355-367		9
364	Metal-coated Polyether Ether Ketone Monopolar Plates for Polymer Electrolyte Membrane Fuel Cell. 2015 , 36, 2815-2818		
363	An investigation into the use of additive manufacture for the production of metallic bipolar plates for polymer electrolyte fuel cell stacks. 2015 , 45, 637-645		17
362	Multilayer graphene for long-term corrosion protection of stainless steel bipolar plates for polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2015 , 293, 846-851	8.9	58
361	Surface Treatments of Stainless Steel by Electroless Silver Coatings as a Bipolar Plate for Proton Exchange Membrane Fuel Cells. 2015 , 12,		4
360	Effect of nitrides on the corrosion behaviour of 316L SS bipolar plates for Proton Exchange Membrane Fuel Cell (PEMFC). <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3359-3369	6.7	57
359	Graphene grown on stainless steel as a high-performance and ecofriendly anti-corrosion coating for polymer electrolyte membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2015 , 282, 248-256	8.9	122
358	Low frequency ultrasound assisted sequential and co-precipitation syntheses of nanoporous RE (Gd and Sm) doped cerium oxide. 2015 , 5, 22578-22586		8
357	Optimizing formulations of polymer composite with high filler content: Application to bipolar plate. 2015 , 110, 17-25		6
356	Polymer Electrolyte Membrane Fuel Cells: Role of Carbon Nanotubes/Graphene in Cathode Catalysis. 2015 , 361-390		1
355	Correlation between predictive and descriptive models to characterize the passive film Study of pure chromium by electrochemical impedance spectroscopy. 2015 , 174, 430-437		25
354	Preparation of corrosion-resistant and conductive trivalent Cr ^{III} coatings on 304 stainless steel for use as bipolar plates in proton exchange membrane fuel cells by electrodeposition. <i>Journal of Power Sources</i> , 2015 , 293, 475-483	8.9	34
353	Effects of Al incorporation on the interfacial conductivity and corrosion resistance of CrN film on SS316L as bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9790-9802	6.7	52
352	Performance and characteristics of titanium nitride, chromium nitride, multi-coated stainless steel 304 bipolar plates fabricated through a rubber forming process. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6681-6688	6.7	42
351	Effect of flow-field dimensions on the formability of FeNiCr alloy as bipolar plate for PEM (proton exchange membrane) fuel cell. 2015 , 83, 156-163		13
350	Modeling and experimental study of laser welding distortion of thin metallic bipolar plates for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4850-4860	6.7	11

349	A critical review of the current collector for passive direct methanol fuel cells. <i>Journal of Power Sources</i> , 2015 , 285, 510-529	8.9	48
348	Optimum design of bipolar plates for separate air flow cooling system of PEM fuel cells stacks. 2015 , 51, 1691-1703		2
347	A life-cycle perspective on automotive fuel cells. 2015 , 157, 884-896		73
346	Improved Water Management with Thermally Sprayed Coatings on Stainless Steel Bipolar Plates of PEMFC. 2015 , 69, 223-239		2
345	Active screen plasma surface co-alloying of 316 austenitic stainless steel with both nitrogen and niobium for the application of bipolar plates in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10281-10292	6.7	28
344	Experimental Investigation into a Novel Modular PEMFC Fuel Cell Stack. 2015 , 15, 306-321		5
343	Low-nickel austenitic stainless steel as an alternative to 316L bipolar plate for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12413-12423	6.7	22
342	A Novel Composite Membrane from QPSU and SiO ₂ for Solid Alkaline Fuel Cell Applications. 2015 , 12, 756-765		12
341	Manufacturing and characterization of bipolar fuel cell plate with textile reinforced polymer composites. 2015 , 65, 1011-1020		7
340	Simple One-Pot Syntheses and Characterizations of Free Fluoride- and Bifluoride-Containing Polymers Soluble in Non-Aqueous Solvents. 2016 , 9,		1
339	. 2016 ,		66
338	Electrodeposition of Functional Coatings on Bipolar Plates for Fuel Cell Applications □A Review. 2016 ,		2
337	Cost Analysis of Direct Methanol Fuel Cell Stacks for Mass Production. 2016 , 9, 1008		35
336	Application of metal foams to high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16196-16204	6.7	29
335	Fluorine-Doped and Partially Oxidized Tantalum Carbides as Nonprecious Metal Electrocatalysts for Methanol Oxidation Reaction in Acidic Media. 2016 , 28, 2163-9		49
334	Carbon-Supported Pt Hollow Nanospheres as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. 2016 , 7, 336-344		10
333	Developments in fuel cell technologies in the transport sector. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16499-16508	6.7	186
332	Analysis of the flow distribution for thin stamped bipolar plates with tapered channel shape. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5084-5095	6.7	28

331	Fuel Cell Technologies, Applications, and State of the Art. A Reference Guide. 2016 ,		2
330	The effects of molybdenum and reduced graphene oxide on corrosion resistance of amorphous nickel phosphorus as bipolar plates in PEMFC environment. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9738-9745	6.7	13
329	Graphene Oxide-Based Composite Materials. 2016 , 314-363		7
328	Effect of Carbon Nanotubes Loading in Multifiller Polymer Composite as Bipolar Plate for PEM Fuel Cell. 2016 , 19, 91-97		20
327	Novel polymer-graphite composite grid as a negative current collector for lead-acid batteries. <i>Journal of Power Sources</i> , 2016 , 334, 31-38	8.9	18
326	High performance polymeric bipolar plate based on polypropylene/graphite/graphene/nano-carbon black composites for PEM fuel cells. <i>Renewable Energy</i> , 2016 , 99, 867-874	8.1	44
325	Optimization of a new flow design for solid oxide cells using computational fluid dynamics modelling. <i>Journal of Power Sources</i> , 2016 , 336, 261-271	8.9	25
324	Evaluation of Ni-Mo and Ni-Mo-P Electroplated Coatings on Stainless Steel for PEM Fuel Cells Bipolar Plates. 2016 , 16, 784-800		12
323	Probing Formability Improvement of Ultra-thin Ferritic Stainless Steel Bipolar Plate of PEMFC in Non-conventional Forming Process. 2016 , 47, 4160-4174		13
322	Preparation and properties of polypropylene-carbon nanotubes nanocomposites for application in bipolar plates. 2016 ,		1
321	Effect of unfunctionalized and HNO ₃ -functionalized MWCNT on the mechanical and electrical performances of PEMFC bipolar plates. 2016 , 133,		2
320	Design of magnesium phosphate cement based composite for high performance bipolar plate of fuel cells. 2016 , 6, 56711-56720		7
319	Improving channel depth of stainless steel bipolar plate in fuel cell using process parameters of stamping. 2016 , 87, 1677-1684		10
318	Applications of Graphene in Tissue Engineering. 2016 , 371-382		
317	Measurement of effective bulk and contact resistance of gas diffusion layer under inhomogeneous compression [Part I: Electrical conductivity. <i>Journal of Power Sources</i> , 2016 , 320, 274-285	8.9	26
316	Feasibility study of a double-step hydroforming process for fabrication of fuel cell bipolar plates with slotted interdigitated serpentine flow field. 2016 , 85, 765-777		14
315	Experimental study of the thermal performance of chaotic geometries for their use in PEM fuel cells. 2016 , 101, 181-192		18
314	Multilayered ZrO ₂ /a-C film on stainless steel 316L as bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2016 , 314, 58-65	8.9	53

313	The Corrosion Resistance Behaviors of Metallic Bipolar Plates for PEMFC Coated with Physical Vapor Deposition (PVD): An Experimental Study. 2016 , 41, 1961-1968		20
312	Materials in PEM Fuel Cells. 2016 ,		12
311	Influence of Cr-C film composition on electrical and corrosion properties of 316L stainless steel as bipolar plates for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1142-1150	6.7	55
310	Preparation and characterization of graphite/resin composite bipolar plates for polymer electrolyte membrane fuel cells. 2016 , 23, 21-28		7
309	The fabrication and characteristics of electroless nickel and immersion Au-polytetrafluoroethylene composite coating on aluminum alloy 5052 as bipolar plate. 2017 , 313, 151-157		15
308	Tantalum Carbide Doped by Fluorine as Non-precious Metal Anodic Electrocatalyst Superior to Pt/C for Glycerol-Oxidation. 2017 , 227, 267-274		15
307	Materials for Proton Exchange Membrane water electrolyzer bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2713-2723	6.7	31
306	Corrosion-resistant characteristics of nitrided Ni-free stainless steel for bipolar plate of polymer electrolyte fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6303-6309	6.7	12
305	Electrochemical Promotional Role of Under-Rib Convection-Based Flow-Field in Polymer Electrolyte Membrane Fuel Cells. 2017 , 241-310		
304	Characteristics of amorphous carbon films to resist high potential impact in PEMFCs bipolar plates for automotive application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14279-14289	6.7	27
303	Organic-Inorganic Composite Polymer Electrolyte Membranes. 2017 ,		5
302	Graphene as corrosion protection for metal foam flow distributor in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22201-22207	6.7	22
301	Performance of passive DMFC with expanded metal mesh current collectors. 2017 , 243, 299-309		19
300	A comprehensive review on unitized regenerative fuel cells: Crucial challenges and developments. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4415-4433	6.7	69
299	Fabrication Techniques for the Polymer Electrolyte Membranes for Fuel Cells. 2017 , 359-380		1
298	Fuel Cells: Construction, Design, and Materials. 2017 , 399-420		
297	Application of Open Pore Cellular Foam for air breathing PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 25630-25638	6.7	31
296	Fuel cell targets, achievements and improvement drivers. 2017 ,		0

295	Influence of Ti content on the corrosion properties and contact resistance of CrTiN coating in simulated proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11758-11770	6.7	28
294	Ti-doped hydrogenated diamond like carbon coating deposited by hybrid physical vapor deposition and plasma enhanced chemical vapor deposition. 2017 , 56, 035506		11
293	Biogas and Fuel Cell as Vehicular Fuel in India. 2017 , 87-133		
292	System integration, durability and reliability of fuel cells: Challenges and solutions. 2017 , 189, 460-479		100
291	Ex-situ evaluation of PTFE coated metals in a proton exchange membrane fuel cell environment. 2017 , 323, 10-17		15
290	Two-stage forming approach for manufacturing ferritic stainless steel bipolar plates in PEM fuel cell: Experiments and numerical simulations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6965-6977	6.7	27
289	Effects of Graphene and Graphite on Properties of Highly Filled Polybenzoxazine Bipolar Plate for Proton Exchange Membrane Fuel Cell: A Comparative Study. 2017 , 211-259		1
288	Zincating Effect on Corrosion Resistance of Electroless Ni-P Coating on Aluminum Alloy 6061. 2017 , 17, 770-777		7
287	On electric resistance effects of non-homogeneous GDL deformation in a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28537-28548	6.7	24
286	Feasibility study on carbon-felt-reinforced thermoplastic composite materials for PEMFC bipolar plates. 2017 , 180, 378-385		14
285	Effect of filler content on the properties of expanded- graphite-based composite bipolar plates for application in polymer electrolyte membrane fuel cells. 2017 , 4, 095604		6
284	Developments of electric cars and fuel cell hydrogen electric cars. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 25695-25734	6.7	210
283	A review of proton exchange membrane water electrolysis on degradation mechanisms and mitigation strategies. <i>Journal of Power Sources</i> , 2017 , 366, 33-55	8.9	179
282	Influence of membrane-type and flow field design on methanol crossover on a single-cell DMFC: An experimental and multi-physics modeling study. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27995-28010	6.7	26
281	The design of long-life, high-efficiency PEM fuel cell power supplies for low power sensor networks. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20277-20296	6.7	10
280	Polymers application in proton exchange membranes for fuel cells (PEMFCs). 2017 , 2,		14
279	Electrochemical Characterization of a PEMEC Using Impedance Spectroscopy. 2017 , 164, F1419-F1426		16
278	The corrosion behavior and mechanical properties of CrN/Ni P multilayer coated mild steel as bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28883-28897	6.7	13

277	Effect of cold deformation on the electrochemical behaviour of 304L stainless steel in contaminated sulfuric acid environment. 2017 , 425, 628-638		47
276	Low-Temperature Fuel Cell Technology for Green Energy. 2017 , 3039-3085		1
275	Effect of Ni content on the electrical and corrosion properties of CrNiN coating in simulated proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1142-1153	6.7	10
274	Surface modification of 316 stainless steel with platinum for the application of bipolar plates in high performance proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2338-2348	6.7	24
273	Conducting Polymer Nanocomposites: Recent Developments and Future Prospects. 2017 , 1-44		8
272	A comprehensive review on recent material development of passive direct methanol fuel cell. 2017 , 23, 1-18		68
271	Characterizing membrane electrode assemblies for high temperature polymer electrolyte membrane fuel cells using design of experiments. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1189-1202	6.7	13
270	Integration of finite element analysis and design of experiment for the investigation of critical factors in rubber pad forming of metallic bipolar plates for PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 575-589	6.7	32
269	A new approach to modelling of PEMFC flow field. 2017 ,		
268	10. Polymers application in proton exchange membranes for fuel cells (PEMFCs). 2017 , 293-348		2
267	Effect of processing parameters on electrical properties of polypropylene/graphite composite plates. 2017 , 12, 12		1
266	Direct Methanol Fuel Cells. 2017 , 343-357		5
265	Manufacturing the Gas Diffusion Layer for PEM Fuel Cell Using a Novel 3D Printing Technique and Critical Assessment of the Challenges Encountered. 2017 , 10,		27
264	Exploring PANI-TiN Nanoparticle Coatings in a PEFC Environment: Enhancing Corrosion Resistance and Conductivity of Stainless Steel Bipolar Plates. 2017 , 10, 1152		8
263	Protective Coatings for Low-Cost Bipolar Plates and Current Collectors of Proton Exchange Membrane Electrolyzers for Large Scale Energy Storage from Renewables. 2017 ,		2
262	Soldering a gas diffusion layer to a stainless steel bipolar plate using metallic tin. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 9006-9014	6.7	7
261	Preparation and surface modification of PVDF-carbon felt composite bipolar plates for vanadium flow battery. 2018 , 27, 1369-1375		14
260	Conductive hybrid polymer composites based on recycled carbon fibres and carbon nanofillers. 2018 , 53, 7403-7416		18

259	Electrical contact resistance between anode and cathode bipolar plates with respect to surface conditions. 2018 , 189, 79-86		14
258	Formation of 3D grapheneNi foam heterostructures with enhanced performance and durability for bipolar plates in a polymer electrolyte membrane fuel cell. 2018 , 6, 1504-1512		34
257	Effects of Mo content on the interfacial contact resistance and corrosion properties of CrN coatings on SS316L as bipolar plates in simulated PEMFCs environment. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10048-10060	6.7	35
256	A review on corrosion protection with single-layer, multilayer, and composites of graphene. 2018 , 36, 155-225		19
255	Effect of cell size in metal foam inserted to the air channel of polymer electrolyte membrane fuel cell for high performance. <i>Renewable Energy</i> , 2018 , 115, 663-675	8.1	42
254	Robust model for optimization of forming process for metallic bipolar plates of cleaner energy production system. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 341-353	6.7	7
253	EFFECT OF CNTS ON THE ELECTRICAL AND MECHANICAL PROPERTIES OF POLYMERIC COMPOSITE AS PEM FUEL CELL BIPOLAR PLATE. 2018 , 80,		2
252	3D-printed Current Collector Plates: Simulation and Performance Evaluation in a Mini Fuel Cell. 2018 , 18, 782-788		3
251	Effect of Bipolar Plate Materials on Performance of Fuel Cells. 2018 ,		4
250	Evaluating the Effect of Metal Bipolar Plate Coating on the Performance of Proton Exchange Membrane Fuel Cells. 2018 , 11, 3203		49
249	Tin oxide coating by nonvacuum-based mist chemical vapor deposition on stainless steel separators for polymer electrolyte fuel cells. 2018 , 57, 117103		20
248	Effect of cluster interface structure on the spontaneous escape behavior of silver in ion plating coatings and its inhibition mechanism. 2018 , 664, 6-11		2
247	Analysis and Design of Fuel Cell Systems for Aviation. 2018 , 11, 375		36
246	Development and performance evaluation of a high temperature proton exchange membrane fuel cell with stamped 304 stainless steel bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13430-13439	6.7	10
245	Graphene and Graphene Oxide for Fuel Cell Technology. 2018 , 57, 9333-9350		67
244	Effects of assembly torque on a proton exchange membrane fuel cell with stamped metallic bipolar plates. 2018 , 159, 440-447		19
243	Polymer Electrolyte Fuel Cells. 2018 , 63-89		5
242	From the cell to the stack. A chronological walk through the techniques to manufacture the PEFCs core. 2018 , 96, 29-45		17

241	Development and applications of portable systems based on conventional PEM fuel cells. 2018 , 91-106	6
240	An Assessment on Additive Manufacturing Technique to Fabricate Integral PEM Fuel Cell/Electrolyser Component. 2018 , 172, 04005	5
239	Degradation in PEM Fuel Cells and Mitigation Strategies Using System Design and Control. 2018 ,	4
238	Assessment of the durability of low-cost Al bipolar plates for High Temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12748-12759	6.7 13
237	Measuring In Situ Interfacial Contact Resistance in a Proton Exchange Membrane Fuel Cell. 2019 , 166, F853-F859	8
236	Synthesis and characterization of conductive ceramic MAX-phase coatings for metal bipolar plates in simulated PEMFC environments. 2019 , 158, 108106	19
235	Numerical Study on the Formability of Metallic Bipolar Plates for Proton Exchange Membrane (PEM) Fuel Cells. 2019 , 9, 810	9
234	Thermal Conductivity and Electrical Resistivity of Melt-Mixed Polypropylene Composites Containing Mixtures of Carbon-Based Fillers. 2019 , 11,	25
233	Investigation of electrical-mechanical performance of epoxy-based nanocomposites filled with hybrid electrically conductive fillers. 2019 , 6, 115010	9
232	Integrating tacrolimus into eutectic oil-based microemulsion for atopic dermatitis: simultaneously enhancing percutaneous delivery and treatment efficacy with relieving side effects. 2019 , 14, 5849-5863	10
231	Study of thickness distribution and dimensional accuracy of stamped metallic bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31360-31371	6.7 16
230	Improvement in the Electrical Properties of Nickel-Plated Steel Using Graphitic Carbon Coatings. 2019 , 21, 1900408	0
229	Interfacial contact resistance in polymer electrolyte membrane fuel cells: Recent developments and challenges. 2019 , 115, 109351	8
228	Ultra-low loading of platinum in proton exchange membrane-based fuel cells: a brief review. 2019 , 8, 1	29
227	A pre-feasibility experimental study of using surface-enhanced flake graphite to build up PEFC bipolar plates. 2019 , 158, 1502-1507	3
226	Developing high performance magnesium phosphate cement composite bipolar plates for fuel cells. 2019 , 158, 1980-1985	1
225	Graphene-based bipolar plates for polymer electrolyte membrane fuel cells. 2019 , 13, 217-241	17
224	Synthesis and corrosion protection of Nb doped TiO ₂ nanopowders modified polyaniline coating on 316 stainless steel bipolar plates for proton-exchange membrane fuel cells. 2019 , 137, 105327	9

223	Experimental investigation of forming metallic bipolar plates by hot metal gas forming (HMGF). 2019 , 1, 1		1
222	Effect of the current collector design on the performance of a passive direct methanol fuel cell. 2019 , 300, 306-315		16
221	Molybdenum carbide coated 316L stainless steel for bipolar plates of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4940-4950	6.7	31
220	Application of Carbon Felt as a Flow Distributor for Polymer Electrolyte Membrane Fuel Cells. 2019 , 166, F74-F78		8
219	Durability and degradation of CrMoN coated SS316L in simulated PEMFCs environment: High potential polarization and electrochemical impedance spectroscopy (EIS). <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20293-20303	6.7	12
218	A review of all-vanadium redox flow battery durability: Degradation mechanisms and mitigation strategies. <i>International Journal of Energy Research</i> , 2019 , 43, 6599	4.5	36
217	Functionalized Carbon Black Supported Silver (Ag/C) Catalysts in Cathode Electrode for Alkaline Anion Exchange Membrane Fuel Cells. 2019 , 6, 711-721		6
216	Material degradation of components in polymer electrolyte membrane (PEM) electrolytic cell and mitigation mechanisms: A review. 2019 , 111, 1-14		44
215	Modeling of fuel cell stacks. 2019 , 193-270		2
214	Bibliography. 2019 , 345-354		
213	Electrodeposition of graphene nano-thick coating for highly enhanced performance of titanium bipolar plates in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16909-16917	6.7	21
212	Investigation of Bipolar Plate Forming with Various Die Configurations by Magnetic Pulse Method. 2019 , 9, 453		4
211	Poly(m-phenylenediamine)-coated 316L SS: A promising material for bipolar plates in PEMFC environment. 2019 , 70, 1646-1656		3
210	A flexible paper-based hydrogen fuel cell for small power applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29680-29691	6.7	28
209	Characterization of Highly Filled PP/Graphite Composites for Adhesive Joining in Fuel Cell Applications. 2019 , 11,		29
208	Developing the processing stages of carbon fiber composite paper as efficient materials for energy conversion, storage, and conservation. 2019 , 2, 490-502		7
207	Identification of mechanical responses of steel sheets under non-proportional loadings using dislocation-density based crystal plasticity model. 2019 , 155, 461-474		11
206	2 kW Modular PEM fuel cell stack for space applications: Development and test for operation under relevant conditions. 2019 , 242, 1683-1696		21

205	Effect of plasma electrolytic nitriding on the corrosion behavior and interfacial contact resistance of titanium in the cathode environment of proton-exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2019 , 418, 42-49	8.9	15
204	Carbon-based coatings for metallic bipolar plates used in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6813-6843	6.7	32
203	Prediction of mechanical behaviour of an ultra-thin sheet metal under non-proportional loading using a crystal plasticity model. 2019 , 651, 012002		
202	Performance Studies of PEFCs Incorporating Non-woven Metal Fabric as Flow Fields for Even Supply of Reactants. 2019 , 10, 162-166		
201	Enhancement in corrosion resistance and electrical conductivity of hydrophobic-treated CP by PTFE emulsion containing TiN NPs. 2019 , 14, 1087-1091		2
200	A review of the applications of fuel cells in microgrids: opportunities and challenges. 2019 , 1,		13
199	Corrosion Resistant Al-Cr-Mo Alloy Coating on Type 316L Stainless Steel Bipolar Plates for Proton Exchange Membrane Fuel Cell Applications. 2019 , 19, 708-723		3
198	A fast neural network approach for direct covariant forces prediction in complex multi-element extended systems. 2019 , 1, 471-479		15
197	Application of Polymer-Based Composites: Bipolar Plate of PEM Fuel Cells. 2019 , 183-237		1
196	Microstructure and properties of a-C films deposited under different argon flow rate on stainless steel bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2019 , 410-411, 188-195	8.9	21
195	Corrosion prevention prospects of polymeric nanocomposites: A review. 2019 , 35, 181-202		30
194	Magnesia phosphate cement composite bipolar plates for passive type direct methanol fuel cells. 2019 , 168, 80-87		6
193	Numerical investigation of liquid water dynamics in wave-like gas channels of PEMFCs. <i>International Journal of Energy Research</i> , 2019 , 43, 1191-1202	4.5	18
192	Corrosion-protection of moulded graphite conductive plastic bipolar plates in PEM electrolysis by plasma processing. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2435-2445	6.7	8
191	Development of a four-in-one sensor for low temperature fuel cell. <i>Renewable Energy</i> , 2019 , 135, 1452-1465	14.5	2
190	Experimental and numerical investigation on thin sheet metal roll forming process of micro channels with high aspect ratio. 2019 , 100, 117-129		12
189	Improved polymer electrolyte fuel cell performance with membrane electrode assemblies using modified metallic plate: Comparative study on impact of various coatings. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18731-18742	6.7	7
188	Review on current research of materials, fabrication and application for bipolar plate in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 29832-29847	6.7	97

187	A reactive-sputter-deposited TiSiN nanocomposite coating for the protection of metallic bipolar plates in proton exchange membrane fuel cells. 2020 , 46, 2743-2757		25
186	Recent developments in graphene based novel structures for efficient and durable fuel cells. 2020 , 122, 110674		24
185	Materials, technological status, and fundamentals of PEM fuel cells [A review]. 2020 , 32, 178-203		300
184	Electropolymerization and corrosion resistance of polypyrrole on nickel bipolar plate for PEM fuel cell application. 2020 , 22, 52-56		8
183	Hybrid enzymatic and organic catalyst cascade for enhanced complete oxidation of ethanol in an electrochemical micro-reactor device. 2020 , 331, 135254		8
182	Novel carbon nanotube supported Co@Ag@Pd formic acid electrooxidation catalysts prepared via sodium borohydride sequential reduction method. 2020 , 241, 122422		14
181	Biomimetic flow fields for proton exchange membrane fuel cells: A review of design trends. 2020 , 190, 116435		38
180	Progress of electrospray and electrospinning in energy applications. 2020 , 31, 132001		13
179	Investigation of Corrosion Methods for Bipolar Plates for High Temperature Polymer Electrolyte Membrane Fuel Cell Application. 2020 , 13, 235		5
178	Planar polymer electrolyte membrane fuel cells: powering portable devices from hydrogen. 2020 , 4, 439-468		21
177	An investigation of Zr-based bulk metallic glasses as bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3132-3144	6.7	11
176	Study of microstructural variation with annealing temperature of TiAlN films coated on stainless steel substrates. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3186-3192	6.7	6
175	Mechanism for vacuum thermal stabilization of silver in graphite-like carbon coating and performance of electrical conductivity and corrosion resistance. 2020 , 693, 137658		3
174	Titanium nitride (TiN)/polytetrafluoroethylene (PTFE)-modified carbon paper used in PEM fuel cells: characterization and corrosion-resistant mechanism. 2020 , 126, 1		2
173	Highly filled graphite/graphene/carbon nanotube in polybenzoxazine composites for bipolar plate in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30898-30910	6.7	16
172	A systematic review for structure optimization and clamping load design of large proton exchange membrane fuel cell stack. <i>Journal of Power Sources</i> , 2020 , 476, 228724	8.9	18
171	Numerical simulation of water droplet transport characteristics in cathode channel of proton exchange membrane fuel cell with tapered slope structures. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 29331-29344	6.7	18
170	Methanol Electrolysis for Hydrogen Production Using Polymer Electrolyte Membrane: A Mini-Review. 2020 , 13, 5879		17

169	Effect of N+ Implantation on Surface Characteristics of 316L Stainless Steels for Bipolar Plate in PEMFC. <i>Coatings</i> , 2020 , 10, 604	2.9	5
168	Challenges towards large-scale fuel cell production: Results of an expert assessment study. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 29288-29296	6.7	9
167	3D-printed fuel-cell bipolar plates for evaluating flow-field performance. 2020 , 4, 142-157		6
166	Study on conductivity and corrosion resistance of N-doped and Cr/N co-doped DLC films on bipolar plates for PEMFC. 2020 , 110, 108156		14
165	Self-Humidifying Proton Exchange Membranes for Fuel Cell Applications: Advances and Challenges. 2020 , 8, 1069		5
164	A first principles and experimental study on the influence of nitrogen doping on the performance of amorphous carbon films for proton exchange membrane fuel cells. 2020 , 167, 219-229		5
163	Retracted. 2020 , 30, e12512		1
162	Combined effects of flow channel configuration and operating conditions on PEM fuel cell performance. 2020 , 220, 113046		11
161	Challenges and Perspectives of Metal-Based Proton Exchange Membrane's Bipolar Plates: Exploring Durability and Longevity. 2020 , 8, 2000007		9
160	Microstructure and mechanical, electrical, and electrochemical properties of sputter-deposited multicomponent (TiNbZrTa) _{Nx} coatings. 2020 , 389, 125651		15
159	Mediated Fuel Cells: Soluble Redox Mediators and Their Applications to Electrochemical Reduction of O and Oxidation of H, Alcohols, Biomass, and Complex Fuels. 2020 , 120, 3749-3786		46
158	Experimental Study of Three Channel Designs with Model Comparison in a PEM Fuel Cell. 2020 , 20, 547-557		16
157	Biopolymer membranes in fuel cell applications. 2020 , 423-476		2
156	Mechanical degradation of proton exchange membrane during assembly and running processes in proton exchange membrane fuel cells with metallic bipolar plates. <i>International Journal of Energy Research</i> , 2020 , 44, 8622-8634	4.5	8
155	Direct deposition of extremely low interface-contact-resistant Ti ₂ AlC MAX-phase coating on stainless-steel by mid-frequency magnetron sputtering method. 2020 , 40, 3338-3342		12
154	Flow Field Patterns for Proton Exchange Membrane Fuel Cells. 2020 , 8,		31
153	Investigation of formability of metallic bipolar plates via stamping for light-weight PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 35149-35161	6.7	11
152	Corrosion behavior of tantalum coatings on AISI 316L stainless steel substrate for bipolar plates of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 20679-20691	6.7	27

151	Evaluation of the corrosion resistance of Ni(P)Cr coatings for bipolar plates by electrochemical impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 20632-20646	6.7	10
150	Solutions to the water flooding problem for unitized regenerative fuel cells: status and perspectives.. 2020 , 10, 16844-16860		11
149	Formation of a protective TiN layer by liquid phase plasma electrolytic nitridation on TiBAlV bipolar plates for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 12489-12500	6.7	26
148	Fabrication of multi-filler thermoset-based composite bipolar plates for PEMFCs applications: Molding defects and properties characterizations. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14119-14132	6.7	15
147	A novel method for manufacturing microchannels of metallic bipolar plate fuel cell by the hot metal gas forming process. 2020 , 55, 268-275		5
146	Amperometric H ₂ sensor with Pt/Pd alloy electrode prepared by pulsed electrodeposition method. 2020 , 156, 104851		2
145	Impacts of reactant flow nonuniformity on fuel cell performance and scaling-up: Comprehensive review, critical analysis and potential recommendations. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 32161-32191	6.7	3
144	Crystal plasticity finite element Marciniak-Kuczynski approach with surface roughening effect in predicting formability of ultra-thin ferritic stainless steel sheets. 2021 , 191, 106066		8
143	Bipolar plate design and fabrication using graphite reinforced composite laminate for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16801-16814	6.7	11
142	Visualization of the oxygen partial pressure in a proton exchange membrane fuel cell during cell operation with low oxygen concentrations. <i>Journal of Power Sources</i> , 2021 , 483, 229193	8.9	0
141	An ultralight-weight polymer electrolyte fuel cell based on woven carbon fiber-resin reinforced bipolar plate. <i>Journal of Power Sources</i> , 2021 , 484, 229291	8.9	8
140	Recent advances and future perspectives of carbon materials for fuel cell. 2021 , 138, 110535		16
139	Graphite-epoxy composites for fuel-cell bipolar plates: Wet vs dry mixing and role of the design of experiment in the optimization of molding parameters. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 4407-4416	6.7	3
138	Synthesis and Ex-Situ characterizations of diamond-like carbon coatings for metallic bipolar plates in PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11059-11070	6.7	7
137	Fundamentals of alcohol fuel cells. 2021 , 75-94		0
136	Carbon-based nanomaterials for alcohol fuel cells. 2021 , 319-336		0
135	Current and Future Perspectives on Hydrogen and Fuelcells for Its Potential Application in Portable; Stationary and Transportation Sectors. 2021 ,		1
134	Highly conductive polypropylene-based composites for bipolar plates for polymer electrolyte membrane fuel cells. 2021 , 21, 155-163		0

133	A review of modified metal bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8672-8701	6.7	22
132	PEM electrolyzer characterization with carbon-based hardware and material sets. 2021 , 124, 106941		5
131	An overview of bipolar plates in proton exchange membrane fuel cells. 2021 , 13, 022701		9
130	A review of composite bipolar plates in proton exchange membrane fuel cells: Electrical properties and gas permeability. 2021 , 262, 113617		4
129	Fretting wear behaviour of nickel foam struts used in fuel cell applications. 135065012110059		0
128	High-Performance Graphene Coating on Titanium Bipolar Plates in Fuel Cells via Cathodic Electrophoretic Deposition. <i>Coatings</i> , 2021 , 11, 437	2.9	2
127	Degradation prediction model for proton exchange membrane fuel cells based on long short-term memory neural network and Savitzky-Golay filter. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15928-15937	6.7	13
126	A review of functions, attributes, properties and measurements for the quality control of proton exchange membrane fuel cell components. <i>Journal of Power Sources</i> , 2021 , 491, 229540	8.9	13
125	Electrodeposition of conductive PAMT/PPY bilayer composite coatings on 316L stainless steel plate for PEMFC application. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17909-17921	6.7	3
124	Assessment of Carbon-Titanium Multilayer Coatings on Aluminum as Bipolar Plates in PEM Fuel Cells.		1
123	Metallic Material Selection and Prospective Surface Treatments for Proton Exchange Membrane Fuel Cell Bipolar Plates-A Review. 2021 , 14,		1
122	Processing Methods of Epoxy/Graphite-Based Compounds for PEFC Bipolar Plates Using Different Secondary Fillers. 2021 , 168, 064508		
121	Study of converging-diverging channel induced convective mass transport in a proton exchange membrane fuel cell. 2021 , 237, 114095		10
120	Influence of temperature on corrosion behavior, wettability, and surface conductivity of 304 stainless steel in simulated cathode environment of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 22920-22931	6.7	3
119	AEMFC Exploiting a Pd/CeO ₂ -Based Anode Compared to Classic PEMFC via LCA Analysis. 2021 , 2, 246-261		1
118	Coated stainless steels evaluation for bipolar plates in PEM water electrolysis conditions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25929-25943	6.7	14
117	Fluoropolymer impregnated graphite foil as a bipolar plates of vanadium flow battery. <i>International Journal of Energy Research</i> ,	4.5	1
116	Enhancing corrosion resistance, hardness, and crack resistance in magnetron sputtered high entropy CoCrFeMnNi coatings by adding carbon. 2021 , 205, 109711		10

115	An analysis of the imperfections and defects inside composite bipolar plates using X-Ray computer tomography and resistivity simulations. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25677-25688	6.7	0
114	Enhanced mechanical properties and corrosion behavior of polypropylene/multi-walled carbon nanotubes/carbon nanofibers nanocomposites for application in bipolar plates of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 26110-26125	6.7	8
113	Review of the Durability of Polymer Electrolyte Membrane Fuel Cell in Long-Term Operation: Main Influencing Parameters and Testing Protocols. 2021 , 14, 4048		7
112	Review on bipolar plates for low-temperature polymer electrolyte membrane water electrolyzer. <i>International Journal of Energy Research</i> , 2021 , 45, 20583	4.5	8
111	Corrosion analysis of graphite sinter as bipolar plates in the low-temperature PEM fuel cell simulated environments. 1		1
110	Rapid and simple assembly of a thin microfluidic fuel cell stack by gas-assisted thermal bonding. 2021 , 295, 117011		3
109	Corrosion Behavior of Niobium-Coated 316L Stainless Steels as Metal Bipolar Plates for Polymer Electrolyte Membrane Fuel Cells. 2021 , 14,		2
108	The innovative contribution of additive manufacturing towards revolutionizing fuel cell fabrication for clean energy generation: A comprehensive review. 2021 , 148, 111369		3
107	A coupling approach between metallic bipolar plates corrosion and membrane chemical degradation in the proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 32226-32241	6.7	2
106	Hydrogen as Energy Sources Basic Concepts. 2021 , 14, 5783		2
105	Modeling, design, materials and fabrication of bipolar plates for proton exchange membrane fuel cell: A review. 2021 , 301, 117443		16
104	Corrosion behavior and interfacial conductivity of amorphous hydrogenated carbon and titanium carbide composite (a-C: H/TiC) films prepared on titanium bipolar plates in PEMFCs. 2021 , 120, 108628		6
103	Materials in PEM Fuel Cells. 2021 , 256-256		0
102	Synthesis of Submicron/Nano Sized CaB ₆ from Carbon Coated Precursors. 137-149		1
101	Fuel Cells: Advances and Challenges. 179-264		6
100	Encyclopedia of Sustainability Science and Technology. 2017 , 1-61		2
99	Encyclopedia of Sustainability Science and Technology. 2017 , 1-41		2
98	Integration of Hydrogen Energy Technologies in Autonomous Power Systems. 2008 , 23-81		4

97	Optimization of Superplastic Forming; Effects of Interfacial Friction on Variable Strain Rate Forming Paths. 2011 , 121-126		2
96	Suitability of energy sources for automotive application [A review]. 2020 , 271, 115169		21
95	Stainless steel bipolar plates for proton exchange membrane fuel cells: Materials, flow channel design and forming processes. <i>Journal of Power Sources</i> , 2020 , 451, 227783	8.9	51
94	Chapter 3:Trends in High-Temperature Polymer Electrolyte Fuel Cells. 2010 , 41-75		4
93	Corrosion characteristics and interfacial contact resistances of TiN and CrN coatings deposited by PVD on 316L stainless steel for polymer electrolyte membrane fuel cell bipolar plates. 2013 , 12, 171-178		3
92	Fracture energy comparison of aluminum and boron composites for fuel cell end plates. 2020 , 7, 149-153		0
91	Understanding Size Effects and Forming Limits in the Micro-Stamping of Industrial Stainless Steel Foils. 2021 , 11, 38		2
90	Comparison of Corrosion Behavior of CrN Coated SUS316L with Different Layer Structure for Polymer Electrode Membrane Fuel Cell Bipolar Plate. 2010 , 20, 187-193		3
89	Optimization of compression moulding parameters of multiwall carbon nanotube/synthetic graphite/epoxy nanocomposites with respect to electrical conductivity. 2019 , 6, 621-634		1
88	Nylon/Porphyrin/Graphene Oxide Fiber Ternary Composite, Synthesis and Characterization. 2017 , 07, 146-165		7
87	Surface Properties of Chromium Nitrided Carbon Steel as Separator for PEMFC. 2011 , 44, 173-178		2
86	Fabrication Process of Aluminum Bipolar Plate for Fuel Cell using Vacuum Die Casting. 2011 , 31, 71-78		3
85	Carbon Nanostructures as Electrocatalyst Supports for Polymer Electrolyte Fuel Cells. 1-46		
84	Materials for Proton Exchange Membrane Fuel Cells. 2007 , 251-309		
83	Surface Morphology and Electrical Property of PEMFC (Proton Exchange Membrane Fuel Cell) Bipolar Plates. 2008 , 45, 161-166		
82	Multi-layered Coating Deposited on PEMFC (Proton Exchange Membrane Fuel Cell) Bipolar Plates. 2008 , 45, 472-476		
81	Analytical Modelling of Fuel Cells - Pages 273-281. 2010 , 273-281		
80	Lightweight Metallic Bipolar Plates of PEMFC for a Small Reconnaissance UAV. 2010 , 38, 1031-1037		

79	Catalyst Support Degradation. 2011 , 45-84		
78	Fabrication Process and Forming Analysis of Fuel Cell Bipolar Plate by Injection Condition of Vacuum Die Casting. 2011 , 31, 274-283		1
77	Encyclopedia of Sustainability Science and Technology. 2012 , 7694-7730		
76	Vacuum Die Casting Mold Design of Fuel Cell Bipolar Plate using Die Filling Simulation and Experimental Verification. 2012 , 32, 65-74		2
75	Performance Evaluation of Magnesium Bipolar Plate in Lightweight PEM Fuel Cell Stack for UAV. 2013 , 41, 788-795		
74	Low-Cost Nanomaterials for High-Performance Polymer Electrolyte Fuel Cells (PEMFCs). 2014 , 359-394		
73	Stackentwicklung Hochtemperatur-Polymerelektrolyt-Brennstoffzellen. 2015 , 145-180		
72	Low-Temperature Fuel Cell Technology for Green Energy. 2015 , 1-38		
71	Carbon Nanotubes: Synthesis, Properties and Applications. 89-138		5
70	Hydrogen-driven Economy and Utilization. 2017 , 291-339		0
69	PEM Fuel Cells: Modeling. 2019 , 235-293		
68	PEM Fuel Cell Materials: Costs, Performance, and Durability. 2019 , 195-234		1
67	A Numerical Investigation of The Fracture Energy of Materials for Fuel Cell End Plates. <i>European Mechanical Science</i> , 2020 , 5, 56-63	0.5	
66	Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolyzers, and supercapacitors. <i>Progress in Energy and Combustion Science</i> , 2022 , 88, 100966	33.6	10
65	Fuel Cell Technologies, Applications, and State of the Art. A Reference Guide. 2022 , 315-333		1
64	Numerical study of inhomogeneous deformation of gas diffusion layers on proton exchange membrane fuel cells performance. <i>Journal of Energy Storage</i> , 2021 , 44, 103486	7.8	0
63	Recent Advancements in PEM Fuel Cell Technologies for Electrified Transportation. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2022 , 233-251	0.5	0
62	Proton exchange membrane fuel cells: fundamentals, advanced technologies, and practical applications. 2022 , 1-24		1

61	Bipolar plates for the permeable exchange membrane: carbon nanotubes as an alternative. 2022 , 71-89		
60	Stainless steel bipolar plate fuel cell with different flow field structures prepared by laser additive manufacturing. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 122186	4.9	1
59	A review of bipolar plate materials and flow field designs in the all-vanadium redox flow battery. <i>Journal of Energy Storage</i> , 2022 , 48, 104003	7.8	2
58	Bipolar Electrochemistry. 1-53		2
57	Electrodeposition and characterization of polypyrrole films on T304 stainless steel. <i>MRS Advances</i> , 2022 , 7, 69	0.7	1
56	Investigation of the effect of carbon post- vs pre-coated metallic bipolar plates for PEMFCs □ start-up and shut-down. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8532-8548	6.7	1
55	Assessment of the PEMFC performance: a CFD study based on channel width to rib width ratio effect. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	1
54	Bio-inspired flow channel designs for proton exchange membrane fuel cells: A review. <i>Journal of Power Sources</i> , 2022 , 522, 231003	8.9	4
53	Natural-forced cooling and Monte-Carlo multi-objective optimization of mechanical and thermal characteristics of a bipolar plate for use in a proton exchange membrane fuel cell. <i>Energy Reports</i> , 2022 , 8, 2747-2761	4.6	4
52	Gripper integrated vision guided assembly of PEM fuel cells. <i>Procedia CIRP</i> , 2022 , 106, 180-184	1.8	
51	General aspects in the modeling of fuel cells: from conventional fuel cells to nano fuel cells. 2022 , 77-121		0
50	Synergistic enrichment of electrically conductive polypropylene-graphite composites for fuel cell bipolar plates. <i>International Journal of Energy Research</i> ,	4.5	1
49	Numerical Simulation of Advanced Bipolar Plates Materials for Hydrogen-Fueled PEM Fuel Cell.		0
48	Corrosion-resistant and interfacial conductive AlTiVCrMo high-entropy alloy and (AlTiVCrMo) _{Nx} high-entropy ceramics coatings for surface modification of bipolar plates in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022 , 527, 231217	8.9	1
47	Crystal plasticity finite element analysis of size effect on the formability of ultra-thin ferritic stainless steel sheet for fuel cell bipolar plate. <i>International Journal of Plasticity</i> , 2022 , 154, 103298	7.6	0
46	Process and challenges of stainless steel based bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 1099-1119	3.1	1
45	A comprehensive review of current research on various materials used for developing composite bipolar plates in polymer electrolyte membrane fuel cells. <i>Polymer Composites</i> ,	3	0
44	Overcoming the Dilemma between Low Electrical Resistance and High Corrosion Resistance Using a Ta/(Ta,Ti)N/TiN/Ti Multilayer for Proton Exchange Membrane Fuel Cells. <i>Coatings</i> , 2022 , 12, 689	2.9	0

43	Simulation of an interdigitated flow channel assembled in a proton exchange membrane Fuel Cell (PEMFC). <i>International Journal of Heat and Mass Transfer</i> , 2022 , 194, 123026	4.9	o
42	Performance of SS304 Modified by Silver Micro/Nano-Dendrite Coating with Hot-Water Super-Repellency in Simulated PEMFC Cathode Environment. <i>Nanomaterials</i> , 2022 , 12, 1726	5.4	o
41	Investigation of acidity on corrosion behavior and surface properties of SS304 in simulated PEMFC cathode environments. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	o
40	On the Performance of Proton Exchange Membrane Fuel Cells with a Catalyst Layer Fabricated Using an Inorganic Dispersant with Various Ultrasonic Mixing. <i>ACS Omega</i> ,	3.9	
39	Properties of SS304 Modified by NickelCobalt Alloy Coating with Cauliflower-Shaped Micro/Nano Structures in Simulated PEMFC Cathode Environment. <i>Nanomaterials</i> , 2022 , 12, 1976	5.4	o
38	Protective coatings for metal bipolar plates of fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 22915-22937	6.7	o
37	Corrosion of metallic bipolar plates accelerated by operating conditions in a simulated PEM fuel cell cathode environment. <i>Renewable Energy</i> , 2022 , 194, 1277-1287	8.1	o
36	Deformation and Fracture in Micro-stamping Process. <i>Minerals, Metals and Materials Series</i> , 2022 , 61-69	0.3	
35	Conjugated polymers for application in proton exchange membrane fuel cells. 2022 , 447-503		
34	A comprehensive review on assembly design strategies on proton exchange membrane applications. 2022 ,		
33	Application of HNS to PEFC Bipolar Plate. 2022 , 71-99		o
32	Powder Bed Fusion 3d Printing and Performance of Stainless Steel Bipolar Plate with Rectangular Micro Channels and Ribs.		o
31	Numerical investigation on the performance of PEMFC with rib-like flow channels. 2022 ,		o
30	Polymer based flow field plates for polymer electrolyte membrane fuel cell and the scope of additive manufacturing: A techno-economic review.		o
29	Corrosion resistance of NiCr(Ti) coatings for metallic bipolar plates. 2022 ,		2
28	Formability improvement in multi-stage stamping of ultra-thin metallic bipolar plate for proton exchange membrane fuel cell. 2022 ,		o
27	Recent major advances and challenges in the emerging Graphene based nanomaterials in electrocatalytic Fuel Cell technology.		o
26	Characterization of Commercial PolymerCarbon Composite Bipolar Plates Used in PEM Fuel Cells. 2022 , 12, 1050		1

25	Nanocomposites. 2022 , 545-786	0
24	Constructing three-dimensional conductive network in composite bipolar plates by sacrificial materials for improvement of proton exchange membrane fuel cell performance. 2022 , 552, 232261	0
23	Anion-exchange membrane water electrolyzers and fuel cells.	4
22	Characterization Methodology Development for PEM Fuel Cell Bipolar Plate. 2021 ,	0
21	An overview: Current progress on hydrogen fuel cell vehicles. 2022 ,	1
20	Contact resistance measurement methods for PEM fuel cell bipolar plates and power terminals. 2023 , 555, 232341	0
19	Direct Methanol Fuel Cells. 2022 ,	0
18	Thermodynamic description of the TiTiD system. 2023 , 80, 102520	0
17	Review on Magnetism in Catalysis: From Theory to PEMFC Applications of 3d Metal Pt-Based Alloys. 2022 , 23, 14768	0
16	A Review of Fuel Cell Powertrains for Long-Haul Heavy-Duty Vehicles: Technology, Hydrogen, Energy and Thermal Management Solutions. 2022 , 15, 9557	1
15	Integrated Gas Diffusion Electrode with High Conductivity Obtained by Skin Electroplating for High Specific Power Density Fuel Cell. 2201256	0
14	Evaluation of Coefficient of Friction and Investigation into the Effect of Friction and Lubrication on Formability of Ultra-thin Sheets.	0
13	Portable Prototype of Hydrogen Fuel Cells for Educational Training. 2023 , 13, 608	0
12	Electromechanical and electrochemical properties of highly filled Titanium composites for PEM bipolar plates. 2023 , 129,	0
11	Conductive Polymer and Nanoparticle-Promoted Polymer Hybrid Coatings for Metallic Bipolar Plates in Proton Membrane Exchange Water Electrolysis. 2023 , 13, 1244	0
10	A review on the sealing structure and materials of fuel-cell stacks. 2023 , 7, 59-69	0
9	Corrosive behavior and interfacial conductivity of stampable a-C film on titanium bipolar plate in proton exchange membrane fuel cells. 2023 , 135, 109796	0
8	Flow channel structure optimization and analysis of proton exchange membrane fuel cell based on the finite data mapping and multi-field synergy principle. 2023 , 207, 123997	0

- 7 Thermoset-Based Composite Bipolar Plates in Proton Exchange Membrane Fuel Cell. **2023**, 137-211 ○
- 6 Electrochemical Water Oxidation to Hydrogen Peroxide on Bipolar Plates. **2023**, 11, 2680-2685 ○
- 5 Carbon Fibers for Bioelectrochemical: Precursors, Bioelectrochemical System, and Biosensors. ○
- 4 Recent Development of Fuel Cell Core Components and Key Materials: A Review. **2023**, 16, 2099 ○
- 3 Effects of potential on corrosion behavior and contact resistance of 446 stainless steel in simulated proton exchange membrane fuel cell cathode environment. ○
- 2 The role of the EHC system in the transition to a sustainable energy future: A review. **2023**, ○
- 1 A Review of Coated Metallic Bipolar Plates for Proton Exchange Membrane Fuel Cell (PEMFC). ○