San Ping Jiang

List of Publications by Citations

454 papers	21,539 citations	76 h-index	120 g-index
483 ext. papers	24,647 ext. citations	7.2 avg, IF	7.67 L-index

#	Paper	IF	Citations
454	Development of lanthanum strontium manganite perovskite cathode materials of solid oxide fuel cells: a review. *Journal of Materials Science*, **2008**, 43, 6799-6833	4.3	498
453	A review of anode materials development in solid oxide fuel cells. *Journal of Materials Science*, **2004**, 39, 4405-4439	4.3	475
452	Nanoscale and nano-structured electrodes of solid oxide fuel cells by infiltration: Advances and challenges. *International Journal of Hydrogen Energy*, **2012**, 37, 449-470	6.7	399
451	A review of wet impregnation—An alternative method for the fabrication of high performance and nano-structured electrodes of solid oxide fuel cells. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 418, 199-210	5.3	370
450	Atomically Dispersed Transition Metals on Carbon Nanotubes with Ultrahigh Loading for Selective Electrochemical Carbon Dioxide Reduction. *Advanced Materials*, **2018**, 30, e1706287	24	352
449	Synthesis and characterization of platinum catalysts on multiwalled carbon nanotubes by intermittent microwave irradiation for fuel cell applications. *Journal of Physical Chemistry B*, **2006**, 110, 5343-50	3.4	344
448	Oxide (CeO2, NiO, Co3O4 and Mn3O4)-promoted Pd/C electrocatalysts for alcohol electrooxidation in alkaline media. *Electrochimica Acta*, **2008**, 53, 2610-2618	6.7	329
447	Nitrogen-Doped Nanoporous Carbon/Graphene Nano-Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. *Advanced Functional Materials*, **2015**, 25, 5768-5777	15.6	328
446	A degradation study of Nafion proton exchange membrane of PEM fuel cells. *Journal of Power Sources*, **2007**, 170, 85-92	8.9	311
445	Chromium deposition and poisoning of cathodes of solid oxide fuel cells—A review. *International Journal of Hydrogen Energy*, **2014**, 39, 505-531	6.7	247
444	Electrocatalytic Activity and Interconnectivity of Pt Nanoparticles on Multiwalled Carbon Nanotubes for Fuel Cells. *Journal of Physical Chemistry C*, **2009**, 113, 18935-18945	3.8	227
443	Layer-by-layer self-assembly in the development of electrochemical energy conversion and storage devices from fuel cells to supercapacitors. *Chemical Society Reviews*, **2012**, 41, 7291-321	58.5	201
442	Kinetics of ethanol electrooxidation at Pd electrodeposited on Ti. *Electrochemistry Communications*, **2007**, 9, 2334-2339	5.1	196
441	PtRu nanoparticles supported on 1-aminopyrene-functionalized multiwalled carbon nanotubes and their electrocatalytic activity for methanol oxidation. *Langmuir*, **2008**, 24, 10505-12	4	194
440	Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries. *Nano Letters*, **2020**, 20, 1252-1261	11.5	194
439	A Versatile Iron-Tannin-Framework Ink Coating Strategy to Fabricate Biomass-Derived Iron Carbide/Fe-N-Carbon Catalysts for Efficient Oxygen Reduction. *Angewandte Chemie - International Edition*, **2016**, 55, 1355-9	16.4	181
438	Advances in electrocatalysts for oxygen evolution reaction of water electrolysis-from metal oxides to carbon nanotubes. *Progress in Natural Science: Materials International*, **2015**, 25, 545-553	3.6	177

437	Prospects of fuel cell technologies. *National Science Review*, **2017**, 4, 163-166	10.8	170
436	Unsaturated edge-anchored Ni single atoms on porous microwave exfoliated graphene oxide for electrochemical CO2. *Applied Catalysis B: Environmental*, **2019**, 243, 294-303	21.8	168
435	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells. I. Mechanism and Kinetics. *Journal of the Electrochemical Society*, **2000**, 147, 4013	3.9	165
434	Development of lanthanum strontium cobalt ferrite perovskite electrodes of solid oxide fuel cells – A review. *International Journal of Hydrogen Energy*, **2019**, 44, 7448-7493	6.7	155
433	From waste Coca Cola® to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. *Carbon*, **2017**, 116, 490-499	10.4	152
432	Electrocatalysis of carbon black- or activated carbon nanotubes-supported Pd–Ag towards methanol oxidation in alkaline media. *International Journal of Hydrogen Energy*, **2010**, 35, 10087-10093	6.7	151
431	Deposition of Cr Species at (La,Sr)(Co,Fe)O[sub 3] Cathodes of Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2006**, 153, A127	3.9	151
430	NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. *Journal of Physical Chemistry C*, **2011**, 115, 12209-12215	3.8	149
429	Microwave-assisted one-pot synthesis of metal/metal oxide nanoparticles on graphene and their electrochemical applications. *Electrochimica Acta*, **2011**, 56, 3338-3344	6.7	148
428	Electrical conductivity and performance of doped LaCrO3 perovskite oxides for solid oxide fuel cells. *Journal of Power Sources*, **2008**, 176, 82-89	8.9	146
427	Photoelectrochemical Synthesis of Ammonia on the Aerophilic-Hydrophilic Heterostructure with 37.8% Efficiency. *CheM*, **2019**, 5, 617-633	16.2	144
426	A mechanistic study on the activation process of (La, Sr)MnO3 electrodes of solid oxide fuel cells. *Solid State Ionics*, **2006**, 177, 1361-1369	3.3	141
425	Hydrothermal Synthesis of Metal-Polyphenol Coordination Crystals and Their Derived Metal/N-doped Carbon Composites for Oxygen Electrocatalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 12470-4	16.4	140
424	Pd/Pt core–shell nanowire arrays as highly effective electrocatalysts for methanol electrooxidation in direct methanol fuel cells. *Electrochemistry Communications*, **2008**, 10, 1575-1578	5.1	140
423	Failure mechanism of (La,Sr)MnO3 oxygen electrodes of solid oxide electrolysis cells. *International Journal of Hydrogen Energy*, **2011**, 36, 10541-10549	6.7	137
422	Hierarchical mesoporous yolk-shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. *Chemical Communications*, **2015**, 51, 2518-21	5.8	136
421	Self-assembly of mixed Pt and Au nanoparticles on PDDA-functionalized graphene as effective electrocatalysts for formic acid oxidation of fuel cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 6883-91	3.6	129
420	Graphene oxide/core–shell structured metal–organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. *Journal of Materials Chemistry A*, **2017**, 5, 10182-10189	13	128

419	Fabrication and Performance of GDC-Impregnated (La,Sr)MnO[sub 3] Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2005**, 152, A1398	3.9	128
418	Polyelectrolyte functionalized carbon nanotubes as a support for noble metal electrocatalysts and their activity for methanol oxidation. *Nanotechnology*, **2008**, 19, 265601	3.4	126
417	Unique MOF-derived hierarchical MnO2 nanotubes@NiCo-LDH/CoS2 nanocage materials as high performance supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 12018-12028	13	124
416	HPW/MCM-41 phosphotungstic acid/mesoporous silica composites as novel proton-exchange membranes for elevated-temperature fuel cells. *Advanced Materials*, **2010**, 22, 971-6	24	124
415	Palladium and ceria infiltrated La0.8Sr0.2Co0.5Fe0.5O3 cathodes of solid oxide fuel cells. *Journal of Power Sources*, **2009**, 194, 275-280	8.9	118
414	Self-assembled Nafion silica nanoparticles for elevated-high temperature polymer electrolyte membrane fuel cells. *Electrochemistry Communications*, **2007**, 9, 2003-2008	5.1	116
413	Review Materials Degradation of Solid Oxide Electrolysis Cells. *Journal of the Electrochemical Society*, **2016**, 163, F3070-F3083	3.9	115
412	Mechanism of Cr deposition and its application in the development of Cr-tolerant cathodes of solid oxide fuel cells. *Solid State Ionics*, **2008**, 179, 1459-1464	3.3	114
411	Insight into proton transfer in phosphotungstic acid functionalized mesoporous silica-based proton exchange membrane fuel cells. *Journal of the American Chemical Society*, **2014**, 136, 4954-64	16.4	113
410	Activation, microstructure, and polarization of solid oxide fuel cell cathodes. *Journal of Solid State Electrochemistry*, **2006**, 11, 93-102	2.6	113
409	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells II. Effect on O[sub 2] Reduction Reaction. *Journal of the Electrochemical Society*, **2000**, 147, 3195	3.9	111
408	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. *Energy Storage Materials*, **2020**, 26, 1-22	19.4	110
407	Pristine carbon nanotubes as non-metal electrocatalysts for oxygen evolution reaction of water splitting. *Applied Catalysis B: Environmental*, **2015**, 163, 96-104	21.8	109
406	Iron Single Atoms on Graphene as Nonprecious Metal Catalysts for High-Temperature Polymer Electrolyte Membrane Fuel Cells. *Advanced Science*, **2019**, 6, 1802066	13.6	107
405	NiO/YSZ, anode-supported, thin-electrolyte, solid oxide fuel cells fabricated by gel casting. *Journal of Power Sources*, **2007**, 170, 55-60	8.9	107
404	Crystalline TiO protective layer with graded oxygen defects for efficient and stable silicon-based photocathode. *Nature Communications*, **2018**, 9, 3572	17.4	107
403	Metal-polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. *Nanoscale*, **2017**, 9, 5323-5328	7.7	104
402	Supported Single Atoms as New Class of Catalysts for Electrochemical Reduction of Carbon Dioxide. *Small Methods*, **2019**, 3, 1800440	12.8	104

401	Sintering behavior of Ni/Y2O3-ZrO2cermet electrodes of solid oxide fuel cells. *Journal of Materials Science*, **2003**, 38, 3775-3782	4.3	103
400	Tuning the Electron Localization of Gold Enables the Control of Nitrogen-to-Ammonia Fixation. *Angewandte Chemie - International Edition*, **2019**, 58, 18604-18609	16.4	102
399	Insight into surface segregation and chromium deposition on La0.6Sr0.4Co0.2Fe0.8O3 cathodes of solid oxide fuel cells. *Journal of Materials Chemistry A*, **2014**, 2, 11114-11123	13	101
398	Enhanced electrochemical activity of Pt nanowire network electrocatalysts for methanol oxidation reaction of fuel cells. *Electrochimica Acta*, **2011**, 56, 1563-1569	6.7	100
397	Electro-oxidation of methanol, 1-propanol and 2-propanol on Pt and Pd in alkaline medium. *Journal of Power Sources*, **2008**, 177, 67-70	8.9	97
396	Performance of direct methanol fuel cells prepared by hot-pressed MEA and catalyst-coated membrane (CCM). *Electrochimica Acta*, **2007**, 52, 3714-3718	6.7	96
395	Development of (La,Sr)MnO[sub 3]-Based Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. *Electrochemical and Solid-State Letters*, **2003**, 6, A67		96
394	Ni hollow spheres as catalysts for methanol and ethanol electrooxidation. *Electrochemistry Communications*, **2007**, 9, 2009-2012	5.1	93
393	Electrooxidation of 2-propanol on Pt, Pd and Au in alkaline medium. *Electrochemistry Communications*, **2007**, 9, 2760-2763	5.1	88
392	Synthesis and characterization of PDDA-stabilized Pt nanoparticles for direct methanol fuel cells. *Electrochimica Acta*, **2006**, 51, 5721-5730	6.7	85
391	Pd/HPW-PDDA-MWCNTs as effective non-Pt electrocatalysts for oxygen reduction reaction of fuel cells. *Chemical Communications*, **2010**, 46, 2058-60	5.8	83
390	GDC-Impregnated (La[sub 0.75]Sr[sub 0.25])(Cr[sub 0.5]Mn[sub 0.5])O[sub 3] Anodes for Direct Utilization of Methane in Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2006**, 153, A850	3.9	83
389	Early interaction between Fe Cr alloy metallic interconnect and Sr-doped LaMnO3 cathodes of solid oxide fuel cells. *Journal of Materials Research*, **2005**, 20, 747-758	2.5	83
388	Pd nanoparticles supported on HPMo-PDDA-MWCNT and their activity for formic acid oxidation reaction of fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 8508-8517	6.7	82
387	Synergistic effect of Pd Au bimetallic surfaces in Au-covered Pd nanowires studied for ethanol oxidation. *Electrochimica Acta*, **2010**, 55, 2295-2298	6.7	82
386	High performance solid oxide fuel cells with electrocatalytically enhanced (La, Sr)MnO3 cathodes. *Electrochemistry Communications*, **2009**, 11, 1048-1051	5.1	81
385	Fabrication of High-Performance Ni/Y[sub 2]O[sub 3]-ZrO[sub 2] Cermet Anodes of Solid Oxide Fuel Cells by Ion Impregnation. *Journal of the Electrochemical Society*, **2002**, 149, A1175	3.9	81
384	Chromium deposition and poisoning in dry and humidified air at (La0.8Sr0.2)0.9MnO3+ cathodes of solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2010**, 35, 2477-2485	6.7	79

383	New anhydrous proton exchange membranes for high-temperature fuel cells based on PVDF–PVP blended polymers. *Journal of Materials Chemistry A*, **2015**, 3, 148-155	13	78
382	A comparative study of CCM and hot-pressed MEAs for PEM fuel cells. *Journal of Power Sources*, **2007**, 170, 140-144	8.9	78
381	A comparative study of H2S poisoning on electrode behavior of Ni/YSZ and Ni/GDC anodes of solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2010**, 35, 12359-12368	6.7	77
380	Functionalized mesoporous structured inorganic materials as high temperature proton exchange membranes for fuel cells. *Journal of Materials Chemistry A*, **2014**, 2, 7637-7655	13	76
379	Tuning the electrocatalytic activity of Pt nanoparticles on carbon nanotubes via surface functionalization. *Electrochemistry Communications*, **2010**, 12, 1646-1649	5.1	76
378	Polyelectrolyte-stabilized Pt nanoparticles as new electrocatalysts for low temperature fuel cells. *Electrochemistry Communications*, **2007**, 9, 1613-1618	5.1	75
377	Highly durable proton exchange membranes for low temperature fuel cells. *Journal of Physical Chemistry B*, **2007**, 111, 8684-90	3.4	74
376	Nanostructured palladium–La0.75Sr0.25Cr0.5Mn0.5O3/Y2O3–ZrO2 composite anodes for direct methane and ethanol solid oxide fuel cells. *Journal of Power Sources*, **2008**, 185, 179-182	8.9	74
375	Effect of characteristics of Y2O3/ZrO2 powders on fabrication of anode-supported solid oxide fuel cells. *Journal of Power Sources*, **2003**, 117, 26-34	8.9	74
374	A remarkable activity of glycerol electrooxidation on gold in alkaline medium. *Electrochimica Acta*, **2012**, 59, 156-159	6.7	72
373	Layer-by-layer self-assembly of PDDA/PWA-Nafion composite membranes for direct methanol fuel cells. *Chemical Communications*, **2010**, 46, 1434-6	5.8	72
372	Lanthanum strontium manganese chromite cathode and anode synthesized by gel-casting for solid oxide fuel cells. *Journal of Materials Chemistry*, **2007**, 17, 2627		71
371	Self-assembled platinum nanoparticles on sulfonic acid-grafted graphene as effective electrocatalysts for methanol oxidation in direct methanol fuel cells. *Scientific Reports*, **2016**, 6, 21530	4.9	70
370	Performance stability and degradation mechanism of La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3– cathodes under solid oxide fuel cells operation conditions. *International Journal of Hydrogen Energy*, **2014**, 39, 15868-15876	6.7	70
369	Tetrahydrofuran-functionalized multi-walled carbon nanotubes as effective support for Pt and PtSn electrocatalysts of fuel cells. *Electrochimica Acta*, **2010**, 55, 2964-2971	6.7	70
368	Novel nano-structured Pd+yttrium doped ZrO2 cathodes for intermediate temperature solid oxide fuel cells. *Electrochemistry Communications*, **2008**, 10, 42-46	5.1	69
367	Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200 °C. *Journal of Materials Chemistry A*, **2016**, 4, 4019-4024	13	68
366	Effect of nitrogen-containing functionalization on the electrocatalytic activity of PtRu nanoparticles supported on carbon nanotubes for direct methanol fuel cells. *Applied Catalysis B: Environmental*, **2014**, 158-159, 140-149	21.8	68

365	Syngas production by catalytic partial oxidation of methane over (La0.7A0.3)BO3 (A□Ba, Ca, Mg, Sr, and B□Cr or Fe) perovskite oxides for portable fuel cell applications. *International Journal of Hydrogen Energy*, **2013**, 38, 13300-13308	6.7	67
364	Performance and stability of (La,Sr)MnO3□2O3□rO2 composite oxygen electrodes under solid oxide electrolysis cell operation conditions. *International Journal of Hydrogen Energy*, **2012**, 37, 10517-10525	6.7	67
363	Electrocatalytic Promotion of Palladium Nanoparticles on Hydrogen Oxidation on Ni/GDC Anodes of SOFCs via Spillover. *Journal of the Electrochemical Society*, **2009**, 156, B1022	3.9	67
362	Highly effective and CO-tolerant PtRu electrocatalysts supported on poly(ethyleneimine) functionalized carbon nanotubes for direct methanol fuel cells. *Electrochimica Acta*, **2013**, 99, 124-132	6.7	66
361	A stability study of impregnated LSCF□GDC composite cathodes of solid oxide fuel cells. *Journal of Alloys and Compounds*, **2013**, 578, 37-43	5.7	66
360	PtRu catalysts supported on heteropolyacid and chitosan functionalized carbon nanotubes for methanol oxidation reaction of fuel cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 16349-57	3.6	66
359	GDC-impregnated Ni anodes for direct utilization of methane in solid oxide fuel cells. *Journal of Power Sources*, **2006**, 159, 68-72	8.9	66
358	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells: III. Effect of Air Flow. *Journal of the Electrochemical Society*, **2001**, 148, C447	3.9	66
357	An investigation of shelf-life of strontium doped LaMnO3 materials. *Journal of Materials Science*, **2000**, 35, 2735-2741	4.3	66
356	Efficient and Durable Bifunctional Oxygen Catalysts Based on NiFeO@MnO Core-Shell Structures for Rechargeable Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 8121-8133	9.5	64
355	In-situ evolution of active layers on commercial stainless steel for stable water splitting. *Applied Catalysis B: Environmental*, **2019**, 248, 277-285	21.8	64
354	Polarization-Induced Interface and Sr Segregation of in Situ Assembled LaSrCoFeO Electrodes on YO-ZrO Electrolyte of Solid Oxide Fuel Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 31729-31737	9.5	62
353	Development of Nanostructured and Palladium Promoted (La,Sr)MnO[sub 3]-Based Cathodes for Intermediate-Temperature SOFCs. *Electrochemical and Solid-State Letters*, **2008**, 11, B213		62
352	Highly ordered mesoporous Nafion membranes for fuel cells. *Chemical Communications*, **2011**, 47, 3216-8	3.8	60
351	Pd/C promoted by Au for 2-propanol electrooxidation in alkaline media. *Electrochemistry Communications*, **2008**, 10, 246-249	5.1	60
350	A Universal Seeding Strategy to Synthesize Single Atom Catalysts on 2D Materials for Electrocatalytic Applications. *Advanced Functional Materials*, **2020**, 30, 1906157	15.6	60
349	Electrodeposition of Cobalt from Aqueous Chloride Solutions. *Journal of the Electrochemical Society* , **1990**, 137, 3418-3423	3.9	59
348	Functionalization of carbon nanotubes by an effective intermittent microwave heating-assisted HF/H2O2 treatment for electrocatalyst support of fuel cells. *Electrochimica Acta*, **2009**, 54, 6954-6958	6.7	57

347	Nanostructured tungsten carbide/carbon composites synthesized by a microwave heating method as supports of platinum catalysts for methanol oxidation. *Journal of Power Sources*, **2012**, 202, 56-62	8.9	56
346	Electrodeposited PtCo and PtMn electrocatalysts for methanol and ethanol electrooxidation of direct alcohol fuel cells. *Electrochimica Acta*, **2009**, 54, 6322-6326	6.7	56
345	Effect of Polarization on the Interface Between (La,Sr)MnO[sub 3] Electrode and Y[sub 2]O[sub 3]-ZrO[sub 2] Electrolyte. *Electrochemical and Solid-State Letters*, **2005**, 8, A115		56
344	Direct application of cobaltite-based perovskite cathodes on the yttria-stabilized zirconia electrolyte for intermediate temperature solid oxide fuel cells. *Journal of Materials Chemistry A*, **2016**, 4, 17678-17685	13	55
343	Highly active and stable (La0.24Sr0.16Ba0.6)(Co0.5Fe0.44Nb0.06)O3 (LSBCFN) cathodes for solid oxide fuel cells prepared by a novel mixing synthesis method. *Journal of Materials Chemistry A*, **2013**, 1, 4871	13	55
342	Rational Design of Ag-Based Catalysts for the Electrochemical CO Reduction to CO: A Review. *ChemSusChem*, **2020**, 13, 39-58	8.3	55
341	A Versatile Iron Tannin-Framework Ink Coating Strategy to Fabricate Biomass-Derived Iron Carbide/Fe-N-Carbon Catalysts for Efficient Oxygen Reduction. *Angewandte Chemie*, **2016**, 128, 1377-1381	3.6	55
340	Co9S8 Ni3S2 heterointerfaced nanotubes on Ni foam as highly efficient and flexible bifunctional electrodes for water splitting. *Electrochimica Acta*, **2019**, 299, 152-162	6.7	55
339	Fabrication and Performance of Impregnated Ni Anodes of Solid Oxide Fuel Cells. *Journal of the American Ceramic Society*, **2005**, 88, 1779-1785	3.8	54
338	A novel phosphotungstic acid impregnated meso-Nafion multilayer membrane for proton exchange membrane fuel cells. *Journal of Membrane Science*, **2013**, 427, 101-107	9.6	53
337	Performance of large-scale anode-supported solid oxide fuel cells with impregnated La0.6Sr0.4Co0.2Fe0.8O3 Y2O3 stabilized ZrO2 composite cathodes. *Journal of Power Sources*, **2010**, 195, 5201-5205	8.9	53
336	Controllable synthesis of graphene supported MnO2 nanowires via self-assembly for enhanced water oxidation in both alkaline and neutral solutions. *Journal of Materials Chemistry A*, **2014**, 2, 123-129	13	52
335	Highly dispersed MoO(x) on carbon nanotube as support for high performance Pt catalyst towards methanol oxidation. *Chemical Communications*, **2011**, 47, 8418-20	5.8	52
334	One-step synthesized HPW/meso-silica inorganic proton exchange membranes for fuel cells. *Chemical Communications*, **2010**, 46, 4351-3	5.8	52
333	Chromium Deposition and Poisoning on (La[sub 0.6]Sr[sub 0.4]Ba[sub x])(Co[sub 0.2]Fe[sub 0.8])O[sub 3] (0 0.4) Cathodes of Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2008**, 155, B1093	3.9	52
332	Pt-based nanoparticles on non-covalent functionalized carbon nanotubes as effective electrocatalysts for proton exchange membrane fuel cells. *RSC Advances*, **2014**, 4, 46265-46284	3.7	51
331	A novel inorganic proton exchange membrane based on self-assembled HPW-meso-silica for direct methanol fuel cells. *Journal of Materials Chemistry*, **2011**, 21, 6668		51
330	Biochar as a Fuel: 3. Mechanistic Understanding on Biochar Thermal Annealing at Mild Temperatures and Its Effect on Biochar Reactivity. *Energy & Fuels*, **2011**, 25, 406-414	4.1	51

329	A fundamental study of chromium deposition and poisoning at (La0.8Sr0.2)0.95(Mn1−xCox)O3 − δ (0.0≤x≤1.0) cathodes of solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 805-821	6.7	51
328	Performance of GDC-Impregnated Ni Anodes of SOFCs. *Electrochemical and Solid-State Letters*, **2004**, 7, A282		51
327	Highly active and stable Er0.4Bi1.6O3 decorated La0.76Sr0.19MnO3+δ nanostructured oxygen electrodes for reversible solid oxide cells. *Journal of Materials Chemistry A*, **2017**, 5, 12149-12157	13	50
326	Characterization of High-Temperature Proton-Exchange Membranes Based on Phosphotungstic Acid Functionalized Mesoporous Silica Nanocomposites for Fuel Cells. *Journal of Physical Chemistry C*, **2011**, 115, 11854-11863	3.8	50
325	Synthesis and characterization of lanthanum silicate apatite by gel-casting route as electrolytes for solid oxide fuel cells. *Journal of Power Sources*, **2009**, 189, 972-981	8.9	50
324	Fabrication and characterization of PFSI/ePTFE composite proton exchange membranes of polymer electrolyte fuel cells. *Electrochimica Acta*, **2007**, 52, 5304-5311	6.7	50
323	Effect of polarization on the electrode behavior and microstructure of (La,Sr)MnO3 electrodes of solid oxide fuel cells. *Journal of Solid State Electrochemistry*, **2004**, 8, 914-922	2.6	50
322	Fluorine-Doped and Partially Oxidized Tantalum Carbides as Nonprecious Metal Electrocatalysts for Methanol Oxidation Reaction in Acidic Media. *Advanced Materials*, **2016**, 28, 2163-9	24	49
321	Nanostructured (Ba,Sr)(Co,Fe)O[sub 3−δ] Impregnated (La,Sr)MnO[sub 3] Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2010**, 157, B1033	3.9	48
320	Why solid oxide cells can be reversibly operated in solid oxide electrolysis cell and fuel cell modes?. *Physical Chemistry Chemical Physics*, **2015**, 17, 31308-15	3.6	47
319	Fabrication and Performance of Polymer Electrolyte Fuel Cells by Self-Assembly of Pt Nanoparticles. *Journal of the Electrochemical Society*, **2005**, 152, A1081	3.9	47
318	Highly chromium contaminant tolerant BaO infiltrated La0.6Sr0.4Co0.2Fe0.8O3-δ cathodes for solid oxide fuel cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 4870-4	3.6	46
317	Enhancing Sulfur Tolerance of Ni-Based Cermet Anodes of Solid Oxide Fuel Cells by Ytterbium-Doped Barium Cerate Infiltration. *ACS Applied Materials & Interfaces*, **2016**, 8, 10293-301	9.5	46
316	Efficient Reversible Conversion between MoS and Mo/Na S Enabled by Graphene-Supported Single Atom Catalysts. *Advanced Materials*, **2021**, 33, e2007090	24	46
315	Carbon-tolerant Ni-based cermet anodes modified by proton conducting yttrium- and ytterbium-doped barium cerates for direct methane solid oxide fuel cells. *Journal of Materials Chemistry A*, **2015**, 3, 21609-21617	13	45
314	Effect of Carbon Nanotubes on Direct Electron Transfer and Electrocatalytic Activity of Immobilized Glucose Oxidase. *ACS Omega*, **2018**, 3, 667-676	3.9	45
313	NiOx nanoparticles supported on polyethylenimine functionalized CNTs as efficient electrocatalysts for supercapacitor and oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2014**, 39, 20662-20670	6.7	45
312	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. *Energy and Environmental Science*, **2019**, 12, 2345-2374	35.4	44

311	Suppressed Sr segregation and performance of directly assembled La0.6Sr0.4Co0.2Fe0.8O3-δ oxygen electrode on Y2O3-ZrO2 electrolyte of solid oxide electrolysis cells. *Journal of Power Sources*, **2018**, 384, 125-135	8.9	44
310	One-pot synthesis of a nitrogen and phosphorus-dual-doped carbon nanotube array as a highly effective electrocatalyst for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2014**, 2, 15448-15453	13	44
309	Enhanced electrochemical performance and stability of (La,Sr)MnO3–(Gd,Ce)O2 oxygen electrodes of solid oxide electrolysis cells by palladium infiltration. *International Journal of Hydrogen Energy*, **2012**, 37, 1301-1310	6.7	44
308	Enhanced oxygen reduction at Pd catalytic nanoparticles dispersed onto heteropolytungstate-assembled poly(diallyldimethylammonium)-functionalized carbon nanotubes. *Physical Chemistry Chemical Physics*, **2011**, 13, 4400-10	3.6	44
307	Reduction of charge recombination by an amorphous titanium oxide interlayer in layered graphene/quantum dots photochemical cells. *ACS Applied Materials & Interfaces*, **2011**, 3, 1940-5	9.5	44
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