Dong Ding

List of Publications by Citations

126	5,692	39	73
papers	citations	h-index	g-index
162	6,978	10.9	5.9
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
126	Enhancing SOFC cathode performance by surface modification through infiltration. *Energy and Environmental Science*, **2014**, 7, 552	35.4	530
125	Three-dimensional ultrathin Ni(OH)2 nanosheets grown on nickel foam for high-performance supercapacitors. *Nano Energy*, **2015**, 11, 154-161	17.1	329
124	Controlled synthesis of NiCo2S4 nanostructured arrays on carbon fiber paper for high-performance pseudocapacitors. *Nano Energy*, **2015**, 16, 71-80	17.1	292
123	Anion and cation substitution in transition-metal oxides nanosheets for high-performance hybrid supercapacitors. *Nano Energy*, **2019**, 57, 22-33	17.1	193
122	Triple-conducting layered perovskites as cathode materials for proton-conducting solid oxide fuel cells. *ChemSusChem*, **2014**, 7, 2811-5	8.3	173
121	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. *Energy Storage Materials*, **2019**, 16, 632-645	19.4	170
120	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. *Advanced Energy Materials*, **2015**, 5, 1500537	21.8	169
119	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. *Energy and Environmental Science*, **2017**, 10, 964-971	35.4	145
118	Probing the Charge Storage Mechanism of a Pseudocapacitive MnO2 Electrode Using in Operando Raman Spectroscopy. *Chemistry of Materials*, **2015**, 27, 6608-6619	9.6	141
117	Phase evolution of an alpha MnO2-based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. *Nano Energy*, **2014**, 9, 161-167	17.1	138
116	Enhanced performance of LSCF cathode through surface modification. *International Journal of Hydrogen Energy*, **2012**, 37, 8613-8620	6.7	129
115	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. *ACS Applied Materials & Interfaces*, **2015**, 7, 24622-8	9.5	125
114	Fabrication and modification of solid oxide fuel cell anodes via wet impregnation/infiltration technique. *Journal of Power Sources*, **2013**, 237, 243-259	8.9	119
113	Efficient Electro-Catalysts for Enhancing Surface Activity and Stability of SOFC Cathodes. *Advanced Energy Materials*, **2013**, 3, 1149-1154	21.8	119
112	Recent Advances in Intensified Ethylene Production□A Review. *ACS Catalysis*, **2019**, 9, 8592-8621	13.1	112
111	Enhanced electrochemical properties of a LiNiO2-based cathode material by removing lithium residues with (NH4)2HPO4. *Journal of Materials Chemistry A*, **2014**, 2, 11691-11696	13	110
110	Controllable interior structure of ZnCo2O4 microspheres for high-performance lithium-ion batteries. *Nano Energy*, **2015**, 11, 64-70	17.1	107

109	Crystallinity Dependence of Ruthenium Nanocatalyst toward Hydrogen Evolution Reaction. *ACS Catalysis*, **2018**, 8, 5714-5720	13.1	107
108	Enhancement in Three-Phase Boundary of SOFC Electrodes by an Ion Impregnation Method: A Modeling Comparison. *Electrochemical and Solid-State Letters*, **2008**, 11, B83		83
107	Self-sustainable protonic ceramic electrochemical cells using a triple conducting electrode for hydrogen and power production. *Nature Communications*, **2020**, 11, 1907	17.4	80
106	Surface modification of LiNi0.8Co0.1Mn0.1O2 with conducting polypyrrole. *Journal of Solid State Electrochemistry*, **2014**, 18, 2619-2624	2.6	77
105	Electrical properties of ceria-carbonate composite electrolytes. *Materials Research Bulletin*, **2006**, 41, 2057-2064	5.1	76
104	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. *Advanced Energy Materials*, **2017**, 7, 1601890	21.8	75
103	High reactive Ce0.8Sm0.2O1.9 powders via a carbonate co-precipitation method as electrolytes for low-temperature solid oxide fuel cells. *Solid State Ionics*, **2008**, 179, 896-899	3.3	75
102	One-step synthesis of architectural Ni3S2 nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. *NPG Asia Materials*, **2016**, 8, e300-e300	10.3	69
101	A durable, high-performance hollow-nanofiber cathode for intermediate-temperature fuel cells. *Nano Energy*, **2016**, 26, 90-99	17.1	68
100	Cation deficiency enabled fast oxygen reduction reaction for a novel SOFC cathode with promoted CO2 tolerance. *Applied Catalysis B: Environmental*, **2019**, 243, 546-555	21.8	61
99	An Efficient SOFC Based on Samaria-Doped Ceria (SDC) Electrolyte. *Journal of the Electrochemical Society*, **2012**, 159, B661-B665	3.9	58
98	A novel low-thermal-budget approach for the co-production of ethylene and hydrogen via the electrochemical non-oxidative deprotonation of ethane. *Energy and Environmental Science*, **2018**, 11, 1710-1716	35.4	55
97	Non-oxidative dehydrogenation of ethane to ethylene over ZSM-5 zeolite supported iron catalysts. *Applied Catalysis B: Environmental*, **2019**, 256, 117816	21.8	48
96	An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes. *Nano Energy*, **2018**, 47, 474-480	17.1	48
95	High-performance cathode-supported SOFCs prepared by a single-step co-firing process. *Journal of Power Sources*, **2008**, 182, 585-588	8.9	48
94	A-site Excessive (La0.8Sr0.2)1+xMnO3 Perovskite Oxides for Bifunctional Oxygen Catalyst in Alkaline Media. *ACS Catalysis*, **2019**, 9, 5074-5083	13.1	47
93	3D Self-Architectured Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 ℃. *Advanced Science*, **2018**, 5, 1800360	13.6	44
92	Co,N-codoped graphene as efficient electrocatalyst for hydrogen evolution reaction: Insight into the active centre. *Journal of Power Sources*, **2017**, 363, 260-268	8.9	43

91	High performance electrolyte-coated anodes for low-temperature solid oxide fuel cells: Model and Experiments. *Journal of Power Sources*, **2008**, 179, 177-185	8.9	42
90	Effect of impregnation phases on the performance of Ni-based anodes for low temperature solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 8561-8567	8.9	41
89	Flexible multiphysics simulation of porous electrodes: Conformal to 3D reconstructed microstructures. *Nano Energy*, **2013**, 2, 105-115	17.1	40
88	High-performance NiBaZr0.1Ce0.7Y0.1Yb0.1O3(BZCYYb) membranes for hydrogen separation. *International Journal of Hydrogen Energy*, **2013**, 38, 14743-14749	6.7	39
87	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. *Chemistry of Materials*, **2015**, 27, 822-828	9.6	39
86	Electrical properties of samaria-doped ceria electrolytes from highly active powders. *Electrochimica Acta*, **2010**, 55, 4529-4535	6.7	37
85	High conductive and long-term phase stable anode materials for SOFCs: A2FeMoO6 (A = Ca, Sr, Ba). *Journal of Power Sources*, **2017**, 359, 384-390	8.9	36
84	An octane-fueled low temperature solid oxide fuel cell with Ru-free anodes. *Electrochemistry Communications*, **2008**, 10, 1295-1298	5.1	36
83	Aluminum and Nitrogen Codoped Graphene: Highly Active and Durable Electrocatalyst for Oxygen Reduction Reaction. *ACS Catalysis*, **2019**, 9, 610-619	13.1	33
82	Promotion on electrochemical performance of a cation deficient SrCo0.7Nb0.1Fe0.2O3 perovskite cathode for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2017**, 354, 26-33	8.9	32
81	Development of La0.6Sr0.4Co0.2Fe0.8O3cathode with an improved stability via La0.8Sr0.2MnO3-film impregnation. *International Journal of Hydrogen Energy*, **2013**, 38, 5375-5382	6.7	32
80	High-performance, ceria-based solid oxide fuel cells fabricated at low temperatures. *Journal of Power Sources*, **2013**, 241, 454-459	8.9	32
79	Wearable high-dielectric-constant polymers with coreshell liquid metal inclusions for biomechanical energy harvesting and a self-powered user interface. *Journal of Materials Chemistry A*, **2019**, 7, 7109-7117	13	31
78	A mixed-conducting BaPr0.8In0.2O3cathode for proton-conducting solid oxide fuel cells. *Electrochemistry Communications*, **2013**, 27, 19-21	5.1	31
77	Cation deficiency design: A simple and efficient strategy for promoting oxygen evolution reaction activity of perovskite electrocatalyst. *Electrochimica Acta*, **2018**, 259, 1004-1010	6.7	31
76	Sm0.2(Ce1xTix)0.8O1.9 modified Niyttria-stabilized zirconia anode for direct methane fuel cell. *Journal of Power Sources*, **2011**, 196, 4987-4991	8.9	30
75	HxMoO3nanobelts with sea water as electrolyte for high-performance pseudocapacitors and desalination devices. *Journal of Materials Chemistry A*, **2015**, 3, 17217-17223	13	29
74	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. *Physical Chemistry Chemical Physics*, **2015**, 17, 21112-9	3.6	29

73	Thin yttria-stabilized zirconia electrolyte and transition layers fabricated by particle suspension spray. *Journal of Power Sources*, **2007**, 164, 567-571	8.9	29
72	Infiltrated Pr2NiO4 as promising bi-electrode for symmetrical solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2018**, 43, 8953-8961	6.7	28
71	Cation Deficiency Tuning of LaCoO3 Perovskite as Bifunctional Oxygen Electrocatalyst. *ChemCatChem*, **2020**, 12, 2768-2775	5.2	27
70	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. *ACS Energy Letters*,1511-1520	20.1	27
69	New insight into highly active cathode of proton conducting solid oxide fuel cells by oxygen ionic conductor modification. *Journal of Power Sources*, **2015**, 287, 170-176	8.9	26
68	Operando and in situ X-ray spectroscopies of degradation in La0.6Sr0.4Co0.2Fe0.8O(3-δ) thin film cathodes in fuel cells. *ChemSusChem*, **2014**, 7, 3078-87	8.3	26
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65	Enhanced ionic conductivity of apatite-type lanthanum silicate electrolyte for IT-SOFCs through copper doping. *Journal of Power Sources*, **2016**, 306, 630-635	8.9	24
64	High performance Ni-Sm2O3 cermet anodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2009**, 187, 400-402	8.9	24
63	Electrochemical characteristics of samaria-doped ceria infiltrated strontium-doped LaMnO3 cathodes with varied thickness for yttria-stabilized zirconia electrolytes. *Journal of Power Sources*, **2011**, 196, 2551-2557	8.9	24
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61	Efficient modification for enhancing surface activity of Ba0.5Sr0.5Co0.8Fe0.2O3-δ oxygen permeation membrane. *Journal of Membrane Science*, **2015**, 477, 7-13	9.6	23
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57	A High-Performing Direct Carbon Fuel Cell with a 3D Architectured Anode Operated Below 600 °C. *Advanced Materials*, **2018**, 30, 1704745	24	22
56	Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. *ACS Catalysis*, **2020**, 10, 4465-4490	13.1	20

55	New insights into intermediate-temperature solid oxide fuel cells with oxygen-ion conducting electrolyte act as a catalyst for NO decomposition. *Applied Catalysis B: Environmental*, **2014**, 158-159, 418-425	21.8	20
54	Synthesis and electrical conductivity of various melilite-type electrolytes Ln1+xSr1−xGa3O7+x/2. *Solid State Ionics*, **2011**, 191, 68-72	3.3	19
53	Switching of metal–oxygen hybridization for selective CO2 electrohydrogenation under mild temperature and pressure. *Nature Catalysis*, **2021**, 4, 274-283	36.5	19
52	Electrical and electrocatalytic properties of a La0.8Sr0.2Co0.17Mn0.83O3−δ cathode for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2012**, 205, 80-85	8.9	17
51	Kinetics and mechanism of CO2 gasification of coal catalyzed by Na2CO3, FeCO3 and Na2CO3–FeCO3. *Journal of the Energy Institute*, **2020**, 93, 922-933	5.7	17
50	Understanding of A-site deficiency in layered perovskites: promotion of dual reaction kinetics for water oxidation and oxygen reduction in protonic ceramic electrochemical cells. *Journal of Materials Chemistry A*, **2020**, 8, 14600-14608	13	16
49	Fabrication and evaluation of stable micro tubular solid oxide fuel cells with BZCY-BZY bi-layer proton conducting electrolytes. *International Journal of Hydrogen Energy*, **2014**, 39, 19087-19092	6.7	15
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46	Advances in electrocatalytic ammonia synthesis under mild conditions. *Progress in Energy and Combustion Science*, **2020**, 81, 100860	33.6	13
45	An Efficient Bifunctional Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. *Advanced Functional Materials*, **2021**, 31, 2105386	15.6	12
44	Scalable nanomanufacturing and assembly of chiral-chain piezoelectric tellurium nanowires for wearable self-powered cardiovascular monitoring. *Nano Futures*, **2019**, 3, 011001	3.6	12
43	Dual 3D Ceramic Textile Electrodes: Fast Kinetics for Carbon Oxidation Reaction and Oxygen Reduction Reaction in Direct Carbon Fuel Cells at Reduced Temperatures. *Advanced Functional Materials*, **2020**, 30, 1910096	15.6	11
42	Approaches for co-sintering metal-supported proton-conducting solid oxide cells with Ba(Zr,Ce,Y,Yb)O3-δ electrolyte. *International Journal of Hydrogen Energy*, **2019**, 44, 13768-13776	6.7	10
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39	Engineering the atomic arrangement of bimetallic catalysts for electrochemical CO reduction. *Chemical Communications*, **2021**, 57, 1839-1854	5.8	10
38	Revitalizing interface in protonic ceramic cells by acid etch.. *Nature*, **2022**, 604, 479-485	50.4	10

37	Development of High Performance Intermediate Temperature Proton-Conducting Solid Oxide Electrolysis Cells. *ECS Transactions*, **2017**, 80, 167-173	1	9
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35	The effect of Cr deposition and poisoning on BaZr 0.1 Ce 0.7 Y 0.2 O 3 proton conducting electrolyte. *International Journal of Hydrogen Energy*, **2014**, 39, 18379-18384	6.7	8
34	Advancement of Proton-Conducting Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells at Idaho National Laboratory (INL). *ECS Transactions*, **2019**, 91, 1029-1034	1	7
33	Dual Functional Ni3S2@Ni Core–Shell Nanoparticles Decorating Nanoporous Carbon as Cathode Scaffolds for Lithium–Sulfur Battery with Lean Electrolytes. *ACS Applied Energy Materials*, **2020**, 3, 4173-4179	6.1	6
32	Spinel oxides as coke-resistant supports for NiO-based oxygen carriers in chemical looping combustion of methane. *Catalysis Today*, **2019**,	5.3	6
31	Effect of Samaria Doped Ceria Impregnation on the Electrochemical Performance of Strontium Doped Lanthanum Chromium Manganite Anode for Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2017**, 164, F916-F922	3.9	6
30	A mini-review on proton conduction of BaZrO3-based perovskite electrolytes. *JPhys Energy*, **2021**, 3, 032019	4.9	6
29	Modeling the performance and faradaic efficiency of solid oxide electrolysis cells using doped barium zirconate perovskite electrolytes. *International Journal of Hydrogen Energy*, **2021**, 46, 11511-11522	6.7	5
28	High-Performance Piezo-Electrocatalytic Sensing of Ascorbic Acid with Nanostructured Wurtzite Zinc Oxide.. *Advanced Materials*, **2021**, 33, e2105697	24	5
27	A High Performance Low Temperature Direct Carbon Fuel Cell. *ECS Transactions*, **2017**, 78, 2519-2526	1	4
26	Low-temperature ethylene production for indirect electrification in chemical production. *Cell Reports Physical Science*, **2021**, 2, 100405	6.1	4
25	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 °C. *Advanced Functional Materials*, **2021**, 31, 2102907	15.6	4
24	Chromium poisoning effect on strontium-doped samarium manganite for solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2016**, 41, 20660-20669	6.7	4
23	Chemical and structural origin of hole states in yttria-stabilized zirconia. *Acta Materialia*, **2021**, 203, 116487	8.4	4
22	Carbon Nanotube Supported Amorphous MoS2 via Microwave Heating Synthesis for Enhanced Performance of Hydrogen Evolution Reaction. *Energy Material Advances*, **2021**, 2021, 1-8	1	4
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19	Hydrogen Production: 3D Self-Architectured Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 ℃ (Adv. Sci. 11/2018). *Advanced Science*, **2018**, 5, 1870070	13.6	3
18	Exploring the structural uniformity and integrity of protonic ceramic thin film electrolyte using wet powder spraying. *Journal of Power Sources Advances*, **2021**, 11, 100067	3.3	3
17	(Invited) Robust and Active Mixed-Conducting Electrodes for Intermediate-Temperature Fuel Cells. *ECS Transactions*, **2017**, 80, 3-12	1	2
16	Hydrogen bonding sewing interface.. *RSC Advances*, **2020**, 10, 17438-17443	3.7	2
15	Enhanced density of sol□gel derived La0.8S0.2MnO3 thin film with an electric field assisted deposition. *Materials Letters*, **2013**, 92, 192-194	3.3	2
14	Direct conversion of natural gases in solid oxide cells: A mini-review. *Electrochemistry Communications*, **2021**, 128, 107068	5.1	2
13	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400□℃ (Adv. Funct. Mater. 33/2021). *Advanced Functional Materials*, **2021**, 31, 2170244	15.6	2
12	Electrochemically Engineered, Highly Energy-Efficient Conversion of Ethane to Ethylene and Hydrogen below 550 ℃ in a Protonic Ceramic Electrochemical Cell. *ACS Catalysis*, **2021**, 11, 12194-12202	13.1	2
11	Fuel Cells: A High-Performing Direct Carbon Fuel Cell with a 3D Architectured Anode Operated Below 600 ℃ (Adv. Mater. 4/2018). *Advanced Materials*, **2018**, 30, 1870022	24	1
10	Development and Fabrication of a New Concept Planar-tubular Solid Oxide Fuel Cell (PT-SOFC). *Fuel Cells*, **2011**, 11, 451-458	2.9	1
9	Surface enhanced performance of La0.6Sr0.4Co0.2Fe0.8O3-□cathodes by infiltration Pr-Ni-Mn-O progress. *Journal of Alloys and Compounds*, **2022**, 902, 163337	5.7	1
8	High-performance of CrOx/HZSM-5 catalyst on non-oxidative dehydrogenation of C2H6 to C2H4: Effect of supporting materials and associated mechanism. *Fuel Processing Technology*, **2022**, 233, 107294	7.2	0
7	Direct Carbon Fuel Cells: Dual 3D Ceramic Textile Electrodes: Fast Kinetics for Carbon Oxidation Reaction and Oxygen Reduction Reaction in Direct Carbon Fuel Cells at Reduced Temperatures (Adv. Funct. Mater. 19/2020). *Advanced Functional Materials*, **2020**, 30, 2070119	15.6	
6	Highly Efficient and Durable Materials for Protonic Ceramic Electrochemical Cells Operated at 400~600 ?c. *ECS Meeting Abstracts*, **2020**, MA2020-02, 2588-2588	0	
5	Electronic Transport within Proton-Conducting Ceramics and Its Effect on Faradaic Efficiency of High-Temperature Water Electrolysis for Hydrogen Production. *ECS Meeting Abstracts*, **2020**, MA2020-01, 1492-1492	0	
4	Three-dimensional Analysis of Materials at Multiple Length Scales. *Microscopy and Microanalysis*, **2020**, 26, 1680-1682	0.5	
3	Composition Optimization of Triple Conducting PrNixCo1-XO3-□Oxygen Electrodes for Protonic Ceramic Electrochemical Cells. *ECS Meeting Abstracts*, **2021**, MA2021-01, 1145-1145	0	
2	Natural Gas Conversion Using Proton-Conducting Ceramic Membrane Reactor. *ECS Meeting Abstracts*, **2021**, MA2021-01, 1149-1149	0	

1	Idaho National Laboratory's Advanced Design and Manufacturing Initiative. *Catalysis Today*, **2021**, 363, 67-72	5.3