Chung-Jen Tseng

List of Publications by Year
in descending order

83	2,052	218677	265206
papers	citations	26 h-index	42 g-index

84	84	84	2459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New insights into interface charge-transfer mechanism of copper-iron layered double hydroxide cathodic electrocatalyst in alkaline electrolysis. Journal of Environmental Chemical Engineering, 2022, 10, 107287.	6.7	6
2	Study on the surface segregation of mixed ionicâ€electronic conductor lanthanumâ€based perovskite oxide <scp> La _{1â^'x} Sr _x Co _{1â^'y} Fe _y O _{3â^'} </scp> _{Î´} materials. International Journal of Energy Research, 2022, 46, 7101-7117.	4.5	10
3	Hierarchical Carbon Composites for Highâ€Energy/Powerâ€Density and Highâ€Reliability Supercapacitors with Low Aging Rate. ChemSusChem, 2022, 15, .	6.8	2
4	X-ray analyses and crystallography data of NiO â€“ BaCeâ‚.₅₄Zrâ‚.₃₆Y0.1O2.95 composite anode for protonic ceramic fuel cell. Materials Today: Proceedings, 2022, 66, 3989-3992.	1.8	1
5	Review on the preparation of electrolyte thin films based on cerate-zirconate oxides for electrochemical analysis of anode-supported proton ceramic fuel cells. Journal of Alloys and Compounds, 2022, 918, 165434.	5.5	23
6	A triple (eâ^'/O2â^'/H+) conducting perovskite BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ for low temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2021, 46, 9767-9774.	7.1	16
7	An In Situ Quick Xâ€ray Absorption Spectroscopy Study on Pt 3 Sn/Graphene Catalyst for Ethanol Oxidation Reaction. ChemCatChem, 2021, 13, 382-387.	3.7	3
8	Creating electronic and ionic conductivity gradients for improving energy storage performance of ruthenium oxide electrodes. Journal of Alloys and Compounds, 2021, 862, 158013.	5.5	0
9	CuFe electrocatalyst for hydrogen evolution reaction in alkaline electrolysis. International Journal of Hydrogen Energy, 2021, 46, 35886-35895.	7.1	20
10	Performance enhancement of polymer electrolyte membrane fuel cell by PtCo3 nanoporous film as high mass-specific power density catalyst using laser deposition and processing. International Journal of Hydrogen Energy, 2021, 46, 33948-33956.	7.1	2
11	Highly concentrated carbonate electrolyte for Li-ion batteries with lithium metal and graphite anodes. Journal of Power Sources, 2020, 450, 227657.	7.8	32
12	High Durability of Pt₃Sn/Graphene Electrocatalysts toward the Oxygen Reduction Reaction Studied with In Situ QEXAFS. ACS Applied Materials & Interfaces, 2020, 12, 24710-24716.	8.0	14
13	Effects of assembling method and force on the performance of protonâ€exchange membrane fuel cells with metal foam flow field. International Journal of Energy Research, 2020, 44, 9707-9713.	4.5	11
14	MoS_x on Nitrogen-Doped Graphene for High-Efficiency Hydrogen Evolution Reaction: Unraveling the Mechanisms of Unique Interfacial Bonding for Efficient Charge Transport and Stability. ACS Applied Materials & Interfaces, 2020, 12, 34825-34836.	8.0	20
15	Pengaruh Doping Cu terhadap Karakteristik Material dan Ketahanan Karbon pada Anoda Ni1-X-CuX-BCZY untuk PSOFC. Rekayasa Mesin, 2020, 11, 441-447.	0.1	0
16	Manipulation of Heteroatom Substitution on Nitrogen and Phosphorus Co-Doped Graphene as a High Active Catalyst for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 22202-22211.	3.1	29
17	Raising the maximum power density of nanoporous catalyst film-based polymer-electrolyte-membrane fuel cells by laser micro-machining of the gas diffusion layer. Journal of Power Sources, 2019, 436, 226886.	7.8	6
18	Nano-fibrous SrCe0Â·8Y0Â·2O3-Î´-Ni anode functional layer for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2019, 436, 226863.	7.8	6

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19	Planar Heterojunction Solar Cell Employing a Single-Source Precursor Solution-Processed Sb₂S₃ Thin Film as the Light Absorber. ACS Omega, 2019, 4, 11380-11387.	3.5	19
20	Production of La0.6Sr0.4Co0.2Fe0.8O3-Î´ cathode with graded porosity for improving proton-conducting solid oxide fuel cells. Ceramics International, 2019, 45, 22479-22485.	4.8	13
21	Effects of TiO2 and SDC addition on the properties of YSZ electrolyte. International Journal of Hydrogen Energy, 2019, 44, 29426-29431.	7.1	12
22	Preparation and characterization of high temperature Sr(Ce0.6Zr0.4)0.9Y0.1O3-Î´/YBaCo2O5+Î´ mixed proton-electron composite membrane. International Journal of Hydrogen Energy, 2019, 44, 29547-29553.	7.1	2
23	Fabrication of anode-supported thin BCZY electrolyte protonic fuel cells using NiO sintering aid. International Journal of Hydrogen Energy, 2019, 44, 23784-23792.	7.1	42
24	Microstructures and electrical properties of zirconium doped barium cerate perovskite proton conductors. International Journal of Hydrogen Energy, 2019, 44, 21174-21180.	7.1	16
25	Effect of the reactive surface area of proton-conducting Ni Ba0.8Sr0.2Ce0.6Zr0.2Y0.2O3-Î´ anodes on cell performance. Ceramics International, 2019, 45, 14524-14532.	4.8	3
26	Supercapacitive performance of porous graphene nanosheets in bis(trifluoromethylsulfony)imide and bis(fluorosulfonyl)imide ionic liquid electrolytes. Journal of Solid State Electrochemistry, 2018, 22, 2197-2203.	2.5	4
27	Revisiting grapheneâ€“polymer nanocomposite for enhancing anticorrosion performance: a new insight into interface chemistry and diffusion model. Nanoscale, 2018, 10, 12612-12624.	5.6	82
28	Combined natural convection and radiation with temperature-dependent properties. Thermal Science, 2018, 22, 921-930.	1.1	3
29	Redox-reversible perovskite ferrite cathode for high temperature solid oxide steam electrolyser. Electrochimica Acta, 2017, 229, 48-54.	5.2	11
30	Chemical stability and electrical and mechanical properties of BaZrxCe0.8-xY0.2O3 with CeO2 protection method. International Journal of Hydrogen Energy, 2017, 42, 22259-22265.	7.1	8
31	Graphene as corrosion protection for metal foam flow distributor in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2017, 42, 22201-22207.	7.1	27
32	Electrochemical Na⁺ storage properties of SnO₂/graphene anodes in carbonate-based and ionic liquid electrolytes. Journal of Materials Chemistry A, 2017, 5, 13776-13784.	10.3	21
33	Correlation between microstructure and catalytic and mechanical properties during redox cycling for Ni-BCY and Ni-BCZY composites. Ceramics International, 2017, 43, S671-S674.	4.8	12
34	Ba1â^'xSrxCe0.8â^'yZryY0.2O3â^'Î´ protonic electrolytes synthesized by hetero-composition-exchange method for solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 22222-22227.	7.1	7
35	Potassium doping optimization in proton-conducting Ba1-xKxCe0.6Zr0.2Y0.2O3-Î´ oxides for fuel cell applications. Journal of Alloys and Compounds, 2017, 696, 251-256.	5.5	14
36	Characteristics of NixFe1â^'xOy Electrocatalyst on Hematite as Photoanode for Solar Hydrogen Production. Catalysts, 2017, 7, 350.	3.5	4

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37	Pulsed Laser Deposition of Platinum Nanoparticles as a Catalyst for High-Performance PEM Fuel Cells. Catalysts, 2016, 6, 180.	3.5	22
38	Production of high-performance and improved-durability Pt-catalystâ€‰/support for proton-exchange-membrane fuel cells with pulsed laser deposition. Journal Physics D: Applied Physics, 2016, 49, 255601.	2.8	13
39	Application of metal foams to high temperature PEM fuel cells. International Journal of Hydrogen Energy, 2016, 41, 16196-16204.	7.1	39
40	Analysis of an intermediate-temperature proton-conducting SOFC hybrid system. International Journal of Green Energy, 2016, 13, 1640-1647.	3.8	7
41	The oxygen reduction reaction of ordered porous carbon-supported PtSn catalysts. RSC Advances, 2016, 6, 44205-44211.	3.6	15
42	Perovskite LSCM impregnated with vanadium pentoxide for high temperature carbon dioxide electrolysis. Electrochimica Acta, 2016, 212, 32-40.	5.2	32
43	Electrochemical performance of 0.5Li2MnO3â€“0.5Li(Mn0.375Ni0.375Co0.25)O2 composite cathode inÂpyrrolidinium-based ionic liquid electrolytes. Journal of Power Sources, 2015, 294, 22-30.	7.8	16
44	Rechargeable Na/Na0.44MnO2 cells with ionic liquid electrolytes containing various sodium solutes. Journal of Power Sources, 2015, 274, 1016-1023.	7.8	102
45	Mechanical Properties of Ba1-xKxCe0.6Zr0.2Y0.2O3-Î´ Oxides by Nanoindentation. Procedia Engineering, 2014, 79, 599-605.	1.2	8
46	Synthesis and characterization of Ba0.6Sr0.4Ce0.8â^'xZrxY0.2O3â^'Î´ proton-conducting oxides for use as fuel cell electrolyte. Journal of Alloys and Compounds, 2014, 586, S506-S510.	5.5	17
47	BaZr0.2Ce0.8â^'xYxO3â^'Î´ solid oxide fuel cell electrolyte synthesized by solâ€“gel combined with composition-exchange method. International Journal of Hydrogen Energy, 2014, 39, 14434-14440.	7.1	30
48	Effects of zirconium oxide on the sintering of SrCe1â^'xZrxO3â^'Î´ (0.0â‰¦xâ‰¦0.5). Journal of Alloys and Compounds, 2014, 615, S491-S495.	5.5	9
49	Proton-conducting Ba1â^'xKxCe0.6Zr0.2Y0.2O3â^'Î´ oxides synthesized by solâ€“gel combined with composition-exchange method. Ceramics International, 2014, 40, 1865-1872.	4.8	14
50	Nanocrystalline Pd/carbon nanotube composites synthesized using supercritical fluid for superior glucose sensing performance. Journal of Alloys and Compounds, 2014, 615, S496-S500.	5.5	17
51	Nanomechanical Properties and Fracture Behaviors of Ba1â€“xKxCe0.6Zr0.2Y0.2O3â€“Î´ Electrolytes by Nanoindentation. Science of Advanced Materials, 2014, 6, 1691-1696.	0.7	3
52	Ordered porous carbon as the catalyst support forÂproton-exchange membrane fuel cells. International Journal of Hydrogen Energy, 2013, 38, 10998-11003.	7.1	27
53	Strontium doping effect on phase homogeneity and conductivity of Ba1â^'xSrxCe0.6Zr0.2Y0.2O3â^'Î´ proton-conducting oxides. International Journal of Hydrogen Energy, 2013, 38, 11097-11103.	7.1	29
54	Thermal stability of Ni(Ta) silicide films on ultra-thin silicon-on-insulator substrates. Journal of Alloys and Compounds, 2012, 536, S407-S411.	5.5	2

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55	Self-oriented iron oxide nanorod array thin film for photoelectrochemical hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 13616-13622.	7.1	38
56	Effects of flow field design on the performance of a PEM fuel cell with metal foam as the flow distributor. International Journal of Hydrogen Energy, 2012, 37, 13060-13066.	7.1	125
57	Numerical analysis of the solar reactor design for a photoelectrochemical hydrogen production system. International Journal of Hydrogen Energy, 2012, 37, 13053-13059.	7.1	7
58	Hydrogen Scooter Testing and Verification Program. Energy Procedia, 2012, 29, 633-643.	1.8	9
59	A PEM fuel cell with metal foam as flow distributor. Energy Conversion and Management, 2012, 62, 14-21.	9.2	135
60	Preparation of PtSn/C electrocatalysts with improved activity and durability toward oxygen reduction reaction by alcohol-reduction process. Materials Chemistry and Physics, 2012, 135, 395-400.	4.0	29
61	Photoelectrochemical performance of gallium-doped AgInS2 photoelectrodes prepared by electrodeposition process. Solar Energy Materials and Solar Cells, 2012, 96, 33-42.	6.2	35
62	The reactor design for photoelectrochemical hydrogen production. International Journal of Hydrogen Energy, 2011, 36, 6510-6518.	7.1	14
63	Photoelectrochemical properties of AgInS2 thin films prepared using electrodeposition. Solar Energy Materials and Solar Cells, 2011, 95, 453-461.	6.2	57
64	Fractal permeability models for the microporous layer and gas diffusion layer of PEM fuel cell. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2011, 34, 39-47.	1.1	11
65	Effects of microstructure characteristics of gas diffusion layer and microporous layer on the performance of PEMFC. Energy Conversion and Management, 2010, 51, 677-684.	9.2	134
66	Thermodynamic analysis of a photoelectrochemical hydrogen production system. International Journal of Hydrogen Energy, 2010, 35, 2781-2785.	7.1	23
67	Electrical and optical properties of TiO2-doped ZnO films prepared by radio-frequency magnetron sputtering. Journal of Physics and Chemistry of Solids, 2008, 69, 535-539.	4.0	41
68	Preparation of TiO2-doped ZnO films by radio frequency magnetron sputtering in ambient hydrogenâ€“argon gas. Applied Surface Science, 2008, 255, 2494-2499.	6.1	37
69	The influence of titanium on the properties of zinc oxide films deposited by radio frequency magnetron sputtering. Applied Surface Science, 2008, 254, 2615-2620.	6.1	36
70	Characterization of Pt-Cu binary catalysts for oxygen reduction for fuel cell applications. Materials Chemistry and Physics, 2006, 100, 385-390.	4.0	53
71	Simulation of thermally-enhanced combustion in a porous medium burner. Heat Transfer - Asian Research, 2006, 35, 75-88.	2.8	3
72	The thermal conductivity mechanism of sewage sludge ash lightweight materials. Cement and Concrete Research, 2005, 35, 803-809.	11.0	44

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73	A Concept of Vertical Takeoff Two-Stage-to-Orbit Reusable Launch Vehicle with an Integral-Rocket-Ramjet Booster. Journal of Mechanics, 2005, 21, 51-56.	1.4	0
74	Thermal properties of phenolic foam insulation. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2002, 25, 753-758.	1.1	11
75	Effects of hydrogen addition on methane combustion in a porous medium burner. International Journal of Hydrogen Energy, 2002, 27, 699-707.	7.1	67
76	Thermal radiative properties of phenolic foam insulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 72, 349-359.	2.3	64
77	Thermal conductivity of polyurethane foams from room temperature to 20 K. Cryogenics, 1997, 37, 305-312.	1.7	99
78	Combustion of Liquid Fuels in a Porous Radiant Burner. Combustion Science and Technology, 1996, 112, 141-161.	2.3	44
79	Conduction-radiation interaction in absorbing, emitting, and anisotropically scattering media with variable thermal conductivity. Journal of Thermophysics and Heat Transfer, 1992, 6, 537-540.	1.6	11
80	Transient combined conduction and radiation in an absorbing, emitting and anisotropically-scattering medium with variable thermal conductivity. International Journal of Heat and Mass Transfer, 1992, 35, 1844-1847.	4.8	8
81	Combined Conduction and radiation in absorbing, emitting and anisotropically-scattering, concentric, spherical media. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 251-257.	2.3	5
82	Thermal Performance of Ultra-Fine Powder Insulations at High Temperatures. Journal of Thermal Insulation, 1989, 12, 298-312.	0.2	7
83	Analysis of Radiative Heat Transfer in Ultra-Fine Powder Insulations Under Variation of Radiative Boundary Conditions. Journal of Thermal Insulation, 1988, 12, 108-123.	0.2	1