

Wai Yin Wong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4834058/publications.pdf>

Version: 2024-02-01

66
papers

2,279
citations

236612

25
h-index

214527

47
g-index

67
all docs

67
docs citations

67
times ranked

2953
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating the roles of the Fe-Nx active sites and pore characteristics on Fe-Pani-biomass-derived RGO as oxygen reduction catalysts in PEMFCs. <i>Materials Research Bulletin</i> , 2022, 145, 111526.	2.7	7
2	Recent developments on transition metal-based electrocatalysts for application in anion exchange membrane water electrolysis. <i>International Journal of Energy Research</i> , 2022, 46, 2241-2276.	2.2	41
3	Effect of annealing time on chemical vapor deposition growth of 3D graphene for photoelectrochemical water splitting. <i>Materials Today: Proceedings</i> , 2022, 57, 1215-1219.	0.9	2
4	Effect of acid treatments on thermal properties of bacterial cellulose produced from cassava liquid waste. <i>Materials Today: Proceedings</i> , 2022, 57, 1174-1178.	0.9	5
5	Protic ionic liquids as next-generation proton exchange membrane materials: Current status & future perspectives. <i>Reactive and Functional Polymers</i> , 2022, 171, 105160.	2.0	24
6	Proton Conductivity Enhancement at High Temperature on Polybenzimidazole Membrane Electrolyte with Acid-Functionalized Graphene Oxide Fillers. <i>Membranes</i> , 2022, 12, 344.	1.4	16
7	Perspectives on carbon-alternative materials as Pt catalyst supports for a durable oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 534, 231422.	4.0	23
8	Phosphorylated chitosan/poly(vinyl alcohol) based proton exchange membranes modified with propylammonium nitrate ionic liquid and silica filler for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 19217-19236.	3.8	14
9	Recent biopolymers used for membrane fuel cells: Characterization analysis perspectives. <i>International Journal of Energy Research</i> , 2022, 46, 16178-16207.	2.2	16
10	Pretreated mesocarp fibre biochars as carbon fuel for direct carbon fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16762-16775.	3.8	13
11	Current progress on 3D graphene-based photocatalysts: From synthesis to photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9324-9340.	3.8	44
12	Molecular dynamic simulation approach to understand the physical and proton transport properties of chitosan/sulfonated Poly(Vinyl alcohol) composite membranes. <i>Polymer</i> , 2021, 217, 123458.	1.8	5
13	High photoelectrochemical performance of a p-type reduced graphene oxide-copper oxide/Cu foil (rGO-CuO/Cu) photoelectrode prepared by a one-pot hydrothermal method. <i>International Journal of Energy Research</i> , 2021, 45, 13865-13877.	2.2	7
14	Radiation-Grafted Anion-Exchange Membrane for Fuel Cell and Electrolyzer Applications: A Mini Review. <i>Membranes</i> , 2021, 11, 397.	1.4	15
15	A comprehensive review of MXenes as catalyst supports for the oxygen reduction reaction in fuel cells. <i>International Journal of Energy Research</i> , 2021, 45, 15760-15782.	2.2	49
16	Enhancement in hydrolytic stability and proton conductivity of optimised chitosan/sulfonated poly(vinyl alcohol) composite membrane with inorganic fillers. <i>International Journal of Energy Research</i> , 2021, 45, 21307-21323.	2.2	2
17	Hybrid Composite Membrane of Phosphorylated Chitosan/Poly (Vinyl Alcohol)/Silica as a Proton Exchange Membrane. <i>Membranes</i> , 2021, 11, 675.	1.4	18
18	Effect of Iron Loading on the Catalytic Activity of Fe/N-Doped Reduced Graphene Oxide Catalysts via Irradiation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 205.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Potential of methanol production from the photoelectrochemical reduction of CO ₂ on rGO-CuO/Cu composite. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	1
20	Physicochemical characterization of Amine-functionalized Bio-nanosilica extracted from rice husk ash as a platinum support. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	1
21	Effect of various Fe/Co ratios and annealing temperatures on a Fe/Co catalyst supported with nitrogen-doped reduced graphene oxide towards the oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152573.	2.8	31
22	Development of Poly(Vinyl Alcohol)-Based Polymers as Proton Exchange Membranes and Challenges in Fuel Cell Application: A Review. <i>Polymer Reviews</i> , 2020, 60, 171-202.	5.3	94
23	Noble-free oxygen reduction reaction catalyst supported on Sengon wood (<i>Paraserianthes</i>) Tj ETQq1 1 0.784314 rgBT /Overlock Energy Research, 2020, 44, 1761-1774.	2.2	21
24	MXene-graphene hybrid nanoflakes as friction modifiers for outboard engine oil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 834, 012039.	0.3	8
25	Sengon wood-derived RGO supported Fe-based electrocatalyst with stabilized graphitic N-bond for oxygen reduction reaction in acidic medium. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23237-23253.	3.8	17
26	Sulfonated graphene oxide as an inorganic filler in promoting the properties of a polybenzimidazole membrane as a high temperature proton exchange membrane. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27510-27526.	3.8	49
27	Influences of crosslinked carboxylic acid monomers on the proton conduction characteristics of chitosan/SPVA composite membranes. <i>Polymer</i> , 2020, 203, 122782.	1.8	11
28	NiPd Supported on Mesostructured Silica Nanoparticle as Efficient Anode Electrocatalyst for Methanol Electrooxidation in Alkaline Media. <i>Catalysts</i> , 2020, 10, 1235.	1.6	9
29	Recent Progress in the Development of Aromatic Polymer-Based Proton Exchange Membranes for Fuel Cell Applications. <i>Polymers</i> , 2020, 12, 1061.	2.0	53
30	Review of Chitosan-Based Polymers as Proton Exchange Membranes and Roles of Chitosan-Supported Ionic Liquids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 632.	1.8	81
31	Power generation from palm kernel shell biochar in a direct carbon fuel cell. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	6
32	Tunable morphology and band gap alteration of CuO-ZnO nanostructures based photocathode for solar photoelectrochemical cells. <i>Materials Research Express</i> , 2020, 7, 125010.	0.8	6
33	Microstructure and Discharge Performance of Aluminum Al 6061 Alloy as Anode for Electrolyte Activated Battery. <i>Sains Malaysiana</i> , 2020, 49, 3243-3254.	0.3	1
34	Application of Biochar Derived from Different Types of Biomass and Treatment Methods as a Fuel Source for Direct Carbon Fuel Cells. <i>Energies</i> , 2019, 12, 2477.	1.6	29
35	Nitrogen-doped carbon xerogels catalyst for oxygen reduction reaction: Improved structural and catalytic activity by enhancing nitrogen species and cobalt insertion. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28789-28802.	3.8	20
36	Nanotechnology: Emerging Opportunities for Fuel Cell Applications. , 2019, , 135-174.		0

#	ARTICLE	IF	CITATIONS
37	Recent progress of anode catalysts and their support materials for methanol electrooxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14744-14769.	3.8	132
38	Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6116-6135.	3.8	207
39	Parametric optimization of pulsed laser ablation on stainless steel for improving corrosion resistance by Taguchi method. <i>Materials Research Express</i> , 2019, 6, 026533.	0.8	2
40	Deep eutectic solvents for extraction-desulphurization: A review. <i>Journal of Molecular Liquids</i> , 2019, 275, 312-322.	2.3	126
41	Synthesis of Graphene/CU ₂ O Thin Film Photoelectrode via Facile Hydrothermal Method for Photoelectrochemical Measurement. <i>Sains Malaysiana</i> , 2019, 48, 1233-1238.	0.3	4
42	Module Stabilizing of Biocarbon Based Electrochemical Capacitor. <i>International Journal of Sustainable Transportation Technology</i> , 2019, 2, 32-38.	0.1	0
43	Corrosion Inhibition of Cold-rolled Low Carbon Steel with Pulse Fiber Laser Ablation in Water. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2805-2814.	1.2	2
44	Carbon and non-carbon support materials for platinum-based catalysts in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7823-7854.	3.8	210
45	Thermophysical properties of glycerol and polyethylene glycol (PEG 600) based DES. <i>Journal of Molecular Liquids</i> , 2018, 252, 439-444.	2.3	59
46	Effect of carbon precursor and initial pH on cobalt-doped carbon xerogel for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11047-11055.	3.8	17
47	A review on production and characterization of biochars for application in direct carbon fuel cells. <i>Chemical Engineering Research and Design</i> , 2018, 118, 152-166.	2.7	134
48	Physical properties optimization of POME-groundnut-naphthenic based graphene nanolubricant using response surface methodology. <i>Journal of Cleaner Production</i> , 2018, 193, 277-289.	4.6	9
49	Effect of deep eutectic solvent in proton conduction and thermal behaviour of chitosan-based membrane. <i>Journal of Molecular Liquids</i> , 2018, 269, 675-683.	2.3	27
50	Morphological Studies on the Agglomeration of FeCo Supported Nitrogen-doped Reduced Graphene Oxide Catalyst Prepared at Varying Annealing Temperature. <i>Jurnal Kejuruteraan</i> , 2018, S11, 31-36.	0.2	1
51	Recent developments and performance review of metal working fluids. <i>Tribology International</i> , 2017, 114, 389-401.	3.0	63
52	Study of the plasticising effect on polymer and its development in fuel cell application. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 794-805.	8.2	24
53	Effect of nitrogen precursors on the electrochemical performance of nitrogen-doped reduced graphene oxide towards oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2016, 677, 112-120.	2.8	61
54	Synthesis of silver/nitrogen-doped reduced graphene oxide through a one-step thermal solid-state reaction for oxygen reduction in an alkaline medium. <i>Journal of Power Sources</i> , 2016, 324, 412-420.	4.0	45

#	ARTICLE	IF	CITATIONS
55	Effect of temperature on the oxygen reduction reaction kinetic at nitrogen-doped carbon nanotubes for fuel cell cathode. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11444-11450.	3.8	26
56	An overview of the electrochemical performance of modified graphene used as an electrocatalyst and as a catalyst support in fuel cells. <i>Applied Catalysis A: General</i> , 2015, 497, 198-210.	2.2	88
57	The Impact of Loading and Temperature on the Oxygen Reduction Reaction at Nitrogen-doped Carbon Nanotubes in Alkaline Medium. <i>Electrochimica Acta</i> , 2014, 129, 47-54.	2.6	33
58	Influence of nitrogen doping on carbon nanotubes towards the structure, composition and oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9421-9430.	3.8	46
59	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9370-9386.	3.8	157
60	Direct synthesis of nitrogen-containing carbon nanotubes on carbon paper for fuel cell electrode. , 2012, , .		3
61	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. <i>Diamond and Related Materials</i> , 2012, 22, 12-22.	1.8	47
62	Effect of nitrogen-doping concentration in carbon nanotubes on cathodic performance for proton exchange membrane fuel cell. , 2012, , .		1
63	Density-Functional Theory of O_2 Physical Adsorption on sp^3 and sp^2 Hybridized Nitrogen-Doped CNT Surfaces for Fuel Cell Electrode. <i>Advanced Materials Research</i> , 0, 233-235, 17-22.	0.3	3
64	Comparative Study On Water Uptake And Ionic Transport Properties Of Pre- And Post Sulfonated Chitosan/PVA polymer Exchange Membrane. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 458, 012017.	0.3	5
65	THERMOPHYSICAL PROPERTIES OF DEEP EUTECTIC SOLVENT-CARBON NANOTUBES (DES-CNT) BASED NANOLUBRICANT. <i>Journal of Thermal Engineering</i> , 0, , 15-26.	0.8	3
66	Supercapacitor performance gains from structural modification of carbon electrodes using gamma radiations. <i>Journal of Electrochemical Science and Engineering</i> , 0, , .	1.6	1