Raihan Othman

List of Publications by Year
in descending order

31 papers	525 citations	1307594 7 h-index	888059 17 g-index
31 all docs	31 docs citations	31 times ranked	681 citing authors

#	Article	IF	Citations
1	Ionic conductivity studies of poly(vinyl alcohol) alkaline solid polymer electrolyte and its use in nickelâ€“zinc cells. Solid State Ionics, 2003, 156, 171-177.	2.7	190
2	Hydroponics gel as a new electrolyte gelling agent for alkaline zincâ€“air cells. Journal of Power Sources, 2001, 103, 34-41.	7.8	81
3	Single-route synthesis of magnetic biochar from sugarcane bagasse by microwave-assisted pyrolysis. Materials Letters, 2016, 184, 315-319.	2.6	52
4	MCM-41 as a new separator material for electrochemical cell: Application in zincâ€“air system. Journal of Membrane Science, 2011, 367, 152-157.	8.2	48
5	Fabrication of aluminium doped zinc oxide piezoelectric thin film on a silicon substrate for piezoelectric MEMS energy harvesters. Microsystem Technologies, 2012, 18, 1761-1769.	2.0	41
6	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 1347-1353.	2.9	40
7	Gel-like properties of MCM-41 material and its transformation to MCM-50 in a caustic alkaline surround. Materials Research Bulletin, 2012, 47, 732-736.	5.2	13
8	Comparative Electrochemical Performance Characteristics of Aluminium-Air Cell Employing Seawater and NaCl Electrolytes. Advanced Materials Research, 0, 701, 314-318.	0.3	8
9	Design, simulation and fabrication of piezoelectric micro generators for aero acoustic applications. Microsystem Technologies, 2011, 17, 563-573.	2.0	7
10	Piezoelectric thin films for double electrode CMOS MEMS surface acoustic wave (SAW) resonator. Microsystem Technologies, 2015, 21, 1931-1940.	2.0	7
11	A study on controllable aluminium doped zinc oxide patterning by chemical etching for MEMS application. Microsystem Technologies, 2017, 23, 3851-3862.	2.0	7
12	High energy density zincâ€“air microbattery utilising inorganic MCM-41 membrane. Materials Research Innovations, 2011, 15, s114-s117.	2.3	4
13	Bioenergy from <i>Gloeophyllum</i>-<i>Rhizopus</i> Fungal Biofuel Cell. Advanced Materials Research, 0, 512-515, 1461-1465.	0.3	4
14	Solid state, dry zinc/MCM-41/air cell as relative humidity sensor. Journal of Membrane Science, 2012, 415-416, 237-241.	8.2	4
15	Self-Sustaining Bioelectrochemical Cell from Fungal Degradation of Lignin-Rich Agrowaste. Energies, 2021, 14, 2098.	3.1	4
16	Dependence of preferred c-axis orientation on RF magnetron sputtering power for AZO/Si acoustic wave devices. , 2015, , .		3
17	Optimization of Zinc Oxide Thin Films for Silicon Surface Acoustic Wave Resonator Applications. Advanced Materials Research, 0, 518-523, 3772-3779.	0.3	2
18	Zinc-Laccase Biofuel Cell. IIUM Engineering Journal, 2011, 12, .	0.8	2

#	Article	IF	Citations
19	Traditional Malay Black Ink: An Analysis of Its Recipes and Characteristics. Advanced Science Letters, 2017, 23, 6189-6193.	0.2	2
20	MAGNETICALLY MODIFIED SUGARCANE BAGASSE BIOCHAR AS CADMIUM REMOVAL AGENT IN WATER. IIUM Engineering Journal, 2022, 23, 294-309.	0.8	2
21	Internal Oxidation of Ni-Cr-Al Alloys under Various Oxygen Partial Pressures at 1273 K. Advanced Materials Research, 0, 576, 429-433.	0.3	1
22	Zn/MCM-41/MnO₂ LeclanchÃ© Button Cell R2025 for Low Rate Applications. Advanced Materials Research, 0, 576, 374-377.	0.3	1
23	Freely-Suspended, Single Chamber Glucose Oxidase-Laccase Enzymatic Fuel Cell. Advanced Materials Research, 0, 512-515, 1499-1502.	0.3	1
24	Influence of Buffer Electrolyte and pH on the Electrochemical Performance of Glucose Oxidase-Laccase Biofuel Cell. Journal of Biobased Materials and Bioenergy, 2013, 7, 194-197.	0.3	1
25	Performance Characteristics of Bipolar Zn/MCM-41/ MnO₂ Cell. Advanced Materials Research, 0, 512-515, 1055-1058.	0.3	0
26	Evaluation of Porous Electrode Properties Using Metal-Air Electrochemical System. Advanced Materials Research, 0, 512-515, 1619-1623.	0.3	0
27	Effect of Bath Formulation and Plating Current Density on Electrodeposited Zinc Anodeâ€™s Capacity in Zinc-Air Cell. Advanced Materials Research, 0, 576, 484-487.	0.3	0
28	Characterization of Zn_xCd_{1-x}O Nanorods for PV Applications. Applied Mechanics and Materials, 0, 372, 123-127.	0.2	0
29	Formation of Hydrophobic Surface Using Two Stages Electrodeposition Method. Advanced Materials Research, 0, 1115, 226-229.	0.3	0
30	Effect of acceptor impurity (Cu and Al) in Zn4Sb3 thermoelectric materials via hot-isostatic pressing (HIP) method. AIP Conference Proceedings, 2019, , .	0.4	0
31	High Discharge Rate Electrodeposited Zinc Electrode for Use in Alkaline Microbattery. IIUM Engineering Journal, 2012, 12, .	0.8	0