

Yongjin Chung

List of Publications by Year in descending order

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53
papers

1,355
citations

279487

23
h-index

360668

35
g-index

53
all docs

53
docs citations

53
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous tungsten oxynitride as electrocatalyst for promoting redox reactions of vanadium redox couple and performance of vanadium redox flow battery. <i>Applied Surface Science</i> , 2018, 429, 187-195.	3.1	74
2	Co-immobilization of glucose oxidase and catalase for enhancing the performance of a membraneless glucose biofuel cell operated under physiological conditions. <i>Nanoscale</i> , 2017, 9, 1993-2002.	2.8	66
3	Chelating functional group attached to carbon nanotubes prepared for performance enhancement of vanadium redox flow battery. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21334-21342.	5.2	64
4	Development of a glucose oxidase-based biocatalyst adopting both physical entrapment and crosslinking, and its use in biofuel cells. <i>Nanoscale</i> , 2016, 8, 9201-9210.	2.8	59
5	Fabrication of a biofuel cell improved by the π -conjugated electron pathway effect induced from a new enzyme catalyst employing terephthalaldehyde. <i>Nanoscale</i> , 2016, 8, 1161-1168.	2.8	58
6	Role of borate functionalized carbon nanotube catalyst for the performance improvement of vanadium redox flow battery. <i>Journal of Power Sources</i> , 2019, 438, 227063.	4.0	51
7	All iron aqueous redox flow batteries using organometallic complexes consisting of iron and 3-[bis(2-hydroxyethyl)amino]-2-hydroxypropanesulfonic acid ligand and ferrocyanide as redox couple. <i>Chemical Engineering Journal</i> , 2020, 398, 125631.	6.6	51
8	Vanadium Redox Flow Battery Using Electrocatalyst Decorated with Nitrogen-Doped Carbon Nanotubes Derived from Metal-Organic Frameworks. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1388-A1399.	1.3	49
9	Highly sensitive glucose biosensor using new glucose oxidase based biocatalyst. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2916-2921.	1.2	48
10	Glucose biofuel cells using bi-enzyme catalysts including glucose oxidase, horseradish peroxidase and terephthalaldehyde crosslinker. <i>Chemical Engineering Journal</i> , 2018, 334, 1085-1092.	6.6	48
11	A correlation of results measured by cyclic voltammogram and impedance spectroscopy in glucose oxidase based biocatalysts. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 3009-3016.	1.2	47
12	Effect of the redox reactivity of vanadium ions enhanced by phosphorylethanolamine based catalyst on the performance of vanadium redox flow battery. <i>Journal of Power Sources</i> , 2018, 406, 26-34.	4.0	44
13	A hybrid biocatalyst consisting of silver nanoparticle and naphthalenethiol self-assembled monolayer prepared for anchoring glucose oxidase and its use for an enzymatic biofuel cell. <i>Applied Surface Science</i> , 2018, 429, 180-186.	3.1	38
14	Pd Bi bimetallic catalysts including polyvinylpyrrolidone surfactant inducing excellent formic acid oxidation reaction and direct formic acid fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17211-17220.	3.8	35
15	Amide group anchored glucose oxidase based anodic catalysts for high performance enzymatic biofuel cell. <i>Journal of Power Sources</i> , 2017, 337, 152-158.	4.0	35
16	A new biocatalyst employing pyrenecarboxaldehyde as an anodic catalyst for enhancing the performance and stability of an enzymatic biofuel cell. <i>NPG Asia Materials</i> , 2017, 9, e386-e386.	3.8	33
17	Glucose oxidase and polyacrylic acid based water swellable enzyme-polymer conjugates for promoting glucose detection. <i>Nanoscale</i> , 2017, 9, 15998-16004.	2.8	33
18	Cathodic biocatalyst consisting of laccase and gold nanoparticle for improving oxygen reduction reaction rate and enzymatic biofuel cell performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 329-332.	2.9	33

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19	Performance evaluation of enzymatic biofuel cells using a new cathodic catalyst containing hemin and poly acrylic acid promoting the oxygen reduction reaction. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11597-11605.	2.7	29
20	Dual catalytic functions of biomimetic, atomically dispersed iron-nitrogen doped carbon catalysts for efficient enzymatic biofuel cells. <i>Chemical Engineering Journal</i> , 2020, 381, 122679.	6.6	29
21	Effects of the gold nanoparticles including different thiol functional groups on the performances of glucose-oxidase-based glucose sensing devices. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2421-2429.	1.2	27
22	Vanadium redox flow battery working even at a high current density by the adoption of tris(hydroxymethyl) aminomethane functionalized acidified carbon nanotube catalyst. <i>Applied Surface Science</i> , 2021, 550, 148977.	3.1	27
23	Biocatalyst including porous enzyme cluster composite immobilized by two-step crosslinking and its utilization as enzymatic biofuel cell. <i>Journal of Power Sources</i> , 2017, 360, 172-179.	4.0	24
24	Highly stable aqueous organometallic redox flow batteries using cobalt triisopropanolamine and iron triisopropanolamine complexes. <i>Chemical Engineering Journal</i> , 2021, 405, 126966.	6.6	24
25	Membraneless enzymatic biofuel cells using iron and cobalt co-doped ordered mesoporous porphyrinic carbon based catalyst. <i>Applied Surface Science</i> , 2020, 511, 145449.	3.1	23
26	Organometallic redox flow batteries using iron triethanolamine and cobalt triethanolamine complexes. <i>Journal of Power Sources</i> , 2020, 466, 228333.	4.0	21
27	Aqueous redox flow battery using iron 2,2-bis(hydroxymethyl)-2,2-nitrioltriethanol complex and ferrocyanide as newly developed redox couple. <i>International Journal of Energy Research</i> , 2022, 46, 8175-8185.	2.2	21
28	Glucose biofuel cells using the two-step reduction reaction of bienzyme structure as cathodic catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 435-444.	2.9	20
29	Carbon supported palladium-copper bimetallic catalysts for promoting electrochemical oxidation of formic acid and its utilization in direct formic acid fuel cells. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 176-183.	1.2	20
30	Optimization of iron and cobalt based organometallic redox couples for long-term stable operation of aqueous organometallic redox flow batteries. <i>Journal of Power Sources</i> , 2021, 495, 229799.	4.0	19
31	Enhancements in catalytic activity and duration of PdFe bimetallic catalysts and their use in direct formic acid fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 351-357.	2.9	17
32	The effect of a vitamin B ₁₂ based catalyst on hydrogen peroxide oxidation reactions and the performance evaluation of a membraneless hydrogen peroxide fuel cell under physiological pH conditions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2749-2755.	2.7	17
33	Effect of Bismuth Sulfate Coated on Acidified CNT on Performance of Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2602-A2609.	1.3	16
34	Amine axial ligand-coordinated cobalt phthalocyanine-based catalyst for flow-type membraneless hydrogen peroxide fuel cell or enzymatic biofuel cell. <i>Journal of Energy Chemistry</i> , 2021, 58, 463-471.	7.1	16
35	A biocatalyst containing chitosan and embedded dye mediator adopted for promoting oxidation reactions and its utilization in biofuel cells. <i>Applied Surface Science</i> , 2020, 507, 145007.	3.1	15
36	The effect of low-defected carboxylic acid functional group-rich carbon nanotube-doped electrode on the performance of aqueous vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2022, 46, 11802-11817.	2.2	15

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37	The effects of cobalt phthalocyanine and polyacrylic acid on the reactivity of hydrogen peroxide oxidation reaction and the performance of hydrogen peroxide fuel cell. <i>Journal of Power Sources</i> , 2020, 480, 228860.	4.0	12
38	Effect of axial ligand on the performance of hemin based catalysts and their use for fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 88, 366-372.	2.9	11
39	Spray pyrolysis-assisted synthesis of hollow cobalt nitrogen-doped carbon catalyst for the performance enhancement of membraneless fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 760-773.	2.2	11
40	High performance of the flow-type one-compartment hydrogen peroxide fuel cell using buckypaper and narrow fuel pathway under physiological conditions. <i>Sustainable Energy and Fuels</i> , 2022, 6, 841-850.	2.5	11
41	Polydopamine mediator for glucose oxidation reaction and its use for membraneless enzymatic biofuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 111, 263-271.	2.9	10
42	Sulfenic Acid Doped Mesocellular Carbon Foam as Powerful Catalyst for Activation of V(II)/V(III) Reaction in Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2703-A2708.	1.3	9
43	Performance improvement of the glucose oxidation reactions using methyl red mediator. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4821-4828.	3.8	9
44	The effects of the interstitial pores of buckypaper in trapping cobalt phthalocyanine and their use in sugarcane-extract fuel cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14675-14682.	2.7	9
45	High temperature-induced myoglobin-mimic catalytic structure having high axial ligand content for one-compartment hydrogen peroxide fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 4142-4155.	2.2	8
46	Sulfhydryl-maleimide crosslinking for enhancing catalytic activity and duration of biocatalyst. <i>Materials Chemistry and Physics</i> , 2021, 267, 124615.	2.0	6
47	A Study on Performance Improvement of Glucose Sensor Adopting a Catalyst Using New Cross Linker. <i>Korean Chemical Engineering Research</i> , 2015, 53, 802-807.	0.2	5
48	Performance Enhancement of Biofuel Cell by Surface Modification of Glucose Oxidase using Ferrocene Carboxylic acid. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2016, 27, 526-532.	0.1	3
49	Paper-based flexible membraneless fuel cells using vitamins as both anodic catalyst and fuel. <i>International Journal of Energy Research</i> , 2022, 46, 15781-15792.	2.2	3
50	Immobilization of Glucose Oxidase using Branched Polyethyleneimines of Various Molecular Weights for Glucose Based Biofuel Cell. <i>Korean Chemical Engineering Research</i> , 2016, 54, 693-697.	0.2	2
51	A Study on Glucose Sensing Measured by Catalyst Containing Multiple Layers of Glucose Oxidase and Gold Nano Rod. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2015, 26, 179-183.	0.1	0
52	A Technical Assessment of Possibility Sanction for Assistance to DPRK. <i>Journal of Energy Engineering</i> , 2015, 24, 192-199.	0.2	0
53	Performance Improvement of Glucose Sensor Adopting Enzymatic Catalyst bonded by Glutaraldehyde. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2016, 27, 378-385.	0.1	0