

Tackling the Challenges of Enzymatic (Bio)Fuel Cells

Chemical Reviews

119, 9509-9558

DOI: [10.1021/acs.chemrev.9b00115](https://doi.org/10.1021/acs.chemrev.9b00115)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Challenges and Opportunities of Carbon Nanomaterials for Biofuel Cells and Supercapacitors: Personalized Energy for Futuristic Self-Sustainable Devices. <i>Journal of Carbon Research</i> , 2019, 5, 62.	1.4	19
2	Laser-induced Flexible Graphene Bioelectrodes for Enzymatic Biofuel Cell. , 2019, , .		2
3	Acceleration of cellodextrin phosphorolysis for bioelectricity generation from cellulosic biomass by integrating a synthetic two-enzyme complex into an in vitro synthetic enzymatic biosystem. <i>Biotechnology for Biofuels</i> , 2019, 12, 267.	6.2	11
4	Three-Dimensional Bioelectrodes Utilizing Graphene Based Bioink. <i>Journal of the Electrochemical Society</i> , 2019, 166, G170-G177.	1.3	8
5	Recent advances in high surface area electrodes for bioelectrochemical applications. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 8-13.	2.5	24
6	On-Body Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Self-Powered Biosensing. <i>Advanced Functional Materials</i> , 2020, 30, 1906243.	7.8	134
7	Enzymatic electrosynthesis as an emerging electrochemical synthesis platform. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 1-7.	2.5	53
8	Development of Reasonably Stable Chitosan Based Proton Exchange Membranes for a Glucose Oxidase Based Enzymatic Biofuel Cell. <i>Electroanalysis</i> , 2020, 32, 536-545.	1.5	12
9	Non-enzymatic direct glucose fuel cells (DGFC): A novel principle towards autonomous electrochemical biosensors. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29749-29762.	3.8	16
10	Kinetics of Oxygen Reduction by a Beta Barrel Heme Protein on Hybrid Bioelectrodes. <i>ChemElectroChem</i> , 2020, 7, 1029-1037.	1.7	4
11	Advances in microbial production of medium-chain dicarboxylic acids for nylon materials. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 221-238.	1.9	26
12	Electroenzymatic CO ₂ Fixation Using Redox Polymer/Enzyme-Modified Gas Diffusion Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 321-327.	8.8	52
13	Bioelectrodes for evaluating molecular therapeutic and toxicity properties. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 20-26.	2.5	14
14	Characterization of pyranose oxidase variants for bioelectrocatalytic applications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140335.	1.1	3
15	Series-Connected Flexible Biobatteries for Higher Voltage Electrical Skin Patches. <i>ACS Applied Electronic Materials</i> , 2020, 2, 170-176.	2.0	13
16	Bioelectrocatalysis as the basis for the design of enzyme-based biofuel cells and semi-artificial biophotoelectrodes. <i>Nature Catalysis</i> , 2020, 3, 214-224.	16.1	71
17	Encapsulation of enzyme by metal-organic framework for single-enzymatic biofuel cell-based self-powered biosensor. <i>Nano Energy</i> , 2020, 68, 104308.	8.2	114
18	Nanostructured pencil graphite electrodes for application as high power biocathodes in miniaturized biofuel cells and bio-batteries. <i>Scientific Reports</i> , 2020, 10, 16535.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. <i>Chemical Reviews</i> , 2020, 120, 12903-12993.	23.0	227
20	Electrochemical glucose sensors in diabetes management: an updated review (2010–2020). <i>Chemical Society Reviews</i> , 2020, 49, 7671-7709.	18.7	460
21	Organic Bioelectronics: From Functional Materials to Next-Generation Devices and Power Sources. <i>Advanced Materials</i> , 2020, 32, e2001439.	11.1	101
22	Anode-Driven Controlled Release of Cathodic Fuel via pH Response for Smart Enzymatic Biofuel Cell. <i>IScience</i> , 2020, 23, 101133.	1.9	9
23	Antimicrobial enzymatic biofuel cells. <i>Chemical Communications</i> , 2020, 56, 15589-15592.	2.2	9
24	Multi-Substrate Biofuel Cell Utilizing Glucose, Fructose and Sucrose as the Anode Fuels. <i>Nanomaterials</i> , 2020, 10, 1534.	1.9	23
25	An oxygen-reducing biocathode with “oxygen tanks”. <i>Chemical Communications</i> , 2020, 56, 9767-9770.	2.2	9
26	Inhibition in multicopper oxidases: a critical review. <i>Catalysis Science and Technology</i> , 2020, 10, 5386-5410.	2.1	21
27	Bilirubin oxidase oriented on novel type three-dimensional biocathodes with reduced graphene aggregation for biocathode. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112500.	5.3	20
28	Photoelectrochemically-assisted biofuel cell constructed by redox complex and g-C ₃ N ₄ coated MWCNT bioanode. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112601.	5.3	19
29	Recent Progress of Two-Dimensional Metal-Organic Frameworks and Their Derivatives for Oxygen Evolution Electrocatalysis. <i>ChemElectroChem</i> , 2020, 7, 4695-4712.	1.7	21
30	Direct Urea Fuel Cells: Recent Progress and Critical Challenges of Urea Oxidation Electrocatalysis. <i>Advanced Energy and Sustainability Research</i> , 2020, 1, 2000015.	2.8	45
31	Facile Preparation of Homogeneous Copper Nanoclusters Exhibiting Excellent Tetraenzyme Mimetic Activities for Colorimetric Glutathione Sensing and Fluorimetric Ascorbic Acid Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42521-42530.	4.0	119
32	Enzymatic biofuel cells based on protein engineering: recent advances and future prospects. <i>Biomaterials Science</i> , 2020, 8, 5230-5240.	2.6	22
33	A hydrogen/oxygen hybrid biofuel cell comprising an electrocatalytically active nanoflower/laccase-based biocathode. <i>Catalysis Science and Technology</i> , 2020, 10, 6235-6243.	2.1	8
34	Membrane Protein Modified Electrodes in Bioelectrocatalysis. <i>Catalysts</i> , 2020, 10, 1427.	1.6	7
35	Direct Electrochemical Enzyme Electron Transfer on Electrodes Modified by Self-Assembled Molecular Monolayers. <i>Catalysts</i> , 2020, 10, 1458.	1.6	28
36	Recent Progress in Applications of Enzymatic Bioelectrocatalysis. <i>Catalysts</i> , 2020, 10, 1413.	1.6	13

#	ARTICLE	IF	CITATIONS
37	Rational Surface Modification of Carbon Nanomaterials for Improved Direct Electron Transfer-Type Bioelectrocatalysis of Redox Enzymes. <i>Catalysts</i> , 2020, 10, 1447.	1.6	12
38	Proteins and peptides for functional nanomaterials: Current efforts and new opportunities. <i>MRS Bulletin</i> , 2020, 45, 1005-1016.	1.7	4
39	Enzymatic Bioreactors: An Electrochemical Perspective. <i>Catalysts</i> , 2020, 10, 1232.	1.6	20
40	Redoxâ€Polymerâ€Based Highâ€Currentâ€Density Gasâ€Diffusion H ₂ â€Oxidation Bioanode Using [FeFe] Hydrogenase from <i>Desulfovibrio desulfuricans</i> in a Membraneâ€free Biofuel Cell. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16506-16510.	7.2	21
41	Photo-Tunable Azobenzene-Anthraquinone Schiff Base Copper Complexes as Mediators for Laccase in Biofuel Cell Cathode. <i>Symmetry</i> , 2020, 12, 797.	1.1	7
42	Electron Transfer via Helical Oligopeptide to Laccase Including Chiral Schiff Base Copper Mediators. <i>Symmetry</i> , 2020, 12, 808.	1.1	9
43	Challenges for the Implantation of Symbiotic Nanostructured Medical Devices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2923.	1.3	2
44	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. <i>ACS Nano</i> , 2020, 14, 6436-6448.	7.3	223
45	Proteins-Based Nanocatalysts for Energy Conversion Reactions. <i>Topics in Current Chemistry</i> , 2020, 378, 43.	3.0	3
46	Benign-by-design nature-inspired bionanoconjugates for energy conversion and storage applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100373.	3.2	5
47	Multienzyme co-immobilization-based bioelectrode: Design of principles and bioelectrochemical applications. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2037-2050.	1.7	10
48	Enzymatic Biofuel Cells for Self-Powered, Controlled Drug Release. <i>Journal of the American Chemical Society</i> , 2020, 142, 11602-11609.	6.6	55
49	Facile synthesis of magnetic hierarchical flower-like Co ₃ O ₄ spheres: Mechanism, excellent tetra-enzyme mimics and their colorimetric biosensing applications. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112342.	5.3	111
50	Reviewâ€Flexible and Stretchable Electrochemical Sensing Systems: Materials, Energy Sources, and Integrations. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037573.	1.3	74
51	Smart Textiles for Electricity Generation. <i>Chemical Reviews</i> , 2020, 120, 3668-3720.	23.0	644
52	Recent Enzymatic Electrochemistry for Reductive Reactions. <i>ChemElectroChem</i> , 2020, 7, 1974-1986.	1.7	34
53	Applications of chitosan (CHI)-reduced graphene oxide (rGO)-polyaniline (PANI) conducting composite electrode for energy generation in glucose biofuel cell. <i>Scientific Reports</i> , 2020, 10, 10428.	1.6	61
54	Assessing electron transfer reactions and catalysis in multicopper oxidases with operando X-ray absorption spectroscopy. <i>Nature Communications</i> , 2020, 11, 316.	5.8	24

#	ARTICLE	IF	CITATIONS
55	Assessment of Glucose Oxidase Based Enzymatic Fuel Cells Integrated With Newly Developed Chitosan Membranes by Electrochemical Impedance Spectroscopy. <i>Electroanalysis</i> , 2020, 32, 1304-1314.	1.5	4
56	Power generation from cheese whey using enzymatic fuel cell. <i>Journal of Cleaner Production</i> , 2020, 254, 120181.	4.6	11
57	Improved operational stability of mediated glucose enzyme electrodes for operation in human physiological solutions. <i>Bioelectrochemistry</i> , 2020, 133, 107460.	2.4	21
58	Controllable Display of Sequential Enzymes on Yeast Surface with Enhanced Biocatalytic Activity toward Efficient Enzymatic Biofuel Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 3222-3230.	6.6	58
59	Bioelectrocatalytic Conversion from N ₂ to Chiral Amino Acids in a H ₂ /N ₂ -Keto Acid Enzymatic Fuel Cell. <i>Journal of the American Chemical Society</i> , 2020, 142, 4028-4036.	6.6	49
60	Platinum Group Metal-Free Catalysts for Oxygen Reduction Reaction: Applications in Microbial Fuel Cells. <i>Catalysts</i> , 2020, 10, 475.	1.6	34
61	A Skin-Mountable Bacteria-Powered Battery System for Self-Powered Medical Devices. , 2020, , .		2
62	Effects of Elimination of α Helix Regions on Direct Electron Transfer-type Bioelectrocatalytic Properties of Copper Efflux Oxidase. <i>Electrochemistry</i> , 2020, 88, 185-189.	0.6	9
63	Biofuel-powered soft electronic skin with multiplexed and wireless sensing for human-machine interfaces. <i>Science Robotics</i> , 2020, 5, .	9.9	385
64	Development of graphene-based enzymatic biofuel cells: A minireview. <i>Bioelectrochemistry</i> , 2020, 134, 107537.	2.4	36
65	Enzymatic Glucose-Oxygen Biofuel Cells for Highly Efficient Interfacial Corrosion Protection. <i>ACS Applied Energy Materials</i> , 2020, 3, 4441-4448.	2.5	9
66	High-power, non-enzymatic glucose biofuel cell based on a nano/micro hybrid-structured Au anode. <i>Journal of Power Sources</i> , 2020, 453, 227844.	4.0	29
67	Wireless <i>In Vivo</i> Biofuel Cell Monitoring. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2021, 5, 25-34.	2.3	7
68	Trends of biofuel cells for smart biomedical devices. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3220-3229.	3.8	32
69	Enzymatic regeneration and conservation of ATP: challenges and opportunities. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 16-33.	5.1	40
70	Stabilization of bilirubin oxidase in a biogel matrix for high-performance gas diffusion electrodes. <i>Journal of Power Sources</i> , 2021, 482, 229035.	4.0	14
71	Immobilizing redox enzymes at mesoporous and nanostructured electrodes. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100658.	2.5	13
72	A self-powered skin-patch electrochromic biosensor. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112879.	5.3	42

#	ARTICLE	IF	CITATIONS
74	Rational design of electroactive redox enzyme nanocapsules for high-performance biosensors and enzymatic biofuel cell. <i>Biosensors and Bioelectronics</i> , 2021, 174, 112805.	5.3	14
75	How Far Are We from Achieving Self-Powered Flexible Health Monitoring Systems: An Energy Perspective. <i>Advanced Energy Materials</i> , 2021, 11, 2002646.	10.2	70
76	Voltammetry and Single-Molecule In Situ Scanning Tunnelling Microscopy of the Redox Metalloenzyme Human Sulfite Oxidase. <i>ChemElectroChem</i> , 2021, 8, 164-171.	1.7	9
77	A DNA nanopillar as a scaffold to regulate the ratio and distance of mimic enzymes for an efficient cascade catalytic platform. <i>Chemical Science</i> , 2021, 12, 407-411.	3.7	20
78	Direct Electro-Chemistry and Electro-Catalytic Reduction on Hydrogen Peroxide of Horseradish Peroxidase Based Electrode on the Basis of Graphene Oxide-Magnetic Nano-Particle Composite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 741-755.	1.9	3
79	Electrochemical Approaches for Preparation of Tailor-Made Amino Acids. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 3034.	0.6	4
80	A membraneless microfluidic fuel cell with a hollow flow channel and porous flow-through electrodes. <i>International Journal of Energy Research</i> , 2021, 45, 8536-8550.	2.2	10
81	Enzymes hosted in redox-active ionically cross-linked polyelectrolyte networks enable more efficient biofuel cells. <i>Soft Matter</i> , 2021, 17, 5240-5247.	1.2	10
82	Interfacial Design and Assembly for Flexible Energy Electrodes with Highly Efficient Energy Harvesting, Conversion, and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2002969.	10.2	16
83	Enzyme-modified electrodes for biofuel cells: A comprehensive review. <i>Materials Today: Proceedings</i> , 2021, 46, 3495-3501.	0.9	5
84	Clicked Bifunctional Dendrimeric and Cyclopeptidic Addressable Redox Scaffolds for the Functionalization of Carbon Nanotubes with Redox Molecules and Enzymes. <i>Langmuir</i> , 2021, 37, 1001-1011.	1.6	9
85	Biological and Microbial Fuel Cells. , 2021, , .		1
86	Stability of Proton Exchange Membranes in Phosphate Buffer for Enzymatic Fuel Cell Application: Hydration, Conductivity and Mechanical Properties. <i>Polymers</i> , 2021, 13, 475.	2.0	7
87	Rapid and Oriented Immobilization of Laccases on Electrodes via a Methionine-Rich Peptide. <i>ACS Catalysis</i> , 2021, 11, 2445-2453.	5.5	31
88	Ethanol Biofuel Cells: Hybrid Catalytic Cascades as a Tool for Biosensor Devices. <i>Biosensors</i> , 2021, 11, 41.	2.3	9
89	Enzymatic Biofuel Cells: A Review on Flow Designs. <i>Energies</i> , 2021, 14, 910.	1.6	22
90	Highly sensitive and stable fructose self-powered biosensor based on a self-charging biosupercapacitor. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112909.	5.3	26
91	Paper-based lactate biofuel cell array with high power output. <i>Journal of Power Sources</i> , 2021, 489, 229533.	4.0	34

#	ARTICLE	IF	CITATIONS
92	Mutations in the coordination spheres of T1 Cu affect Cu ²⁺ -activation of the laccase from <i>Thermus thermophilus</i> . <i>Biochimie</i> , 2021, 182, 228-237.	1.3	8
93	Blood driven biopower cells: Acquiring energy from reverse electro dialysis using sodium concentrations from the flow of human blood. <i>Journal of Power Sources</i> , 2021, 488, 229440.	4.0	5
94	Polymer coating for improved redox-polymer-mediated enzyme electrodes: A mini-review. <i>Electrochemistry Communications</i> , 2021, 124, 106931.	2.3	15
95	A Biofuel-Cell-Based Energy Harvester With 86% Peak Efficiency and 0.25-V Minimum Input Voltage Using Source-Adaptive MPPT. <i>IEEE Journal of Solid-State Circuits</i> , 2021, 56, 715-728.	3.5	20
96	Membrane Augmented Cell-Free Systems: A New Frontier in Biotechnology. <i>ACS Synthetic Biology</i> , 2021, 10, 670-681.	1.9	22
97	Surface-confined redox-active monolayers of a multifunctional anthraquinone derivative on nanoporous and single-crystal gold electrodes. <i>Electrochemistry Communications</i> , 2021, 124, 106962.	2.3	4
98	Cascaded Biocatalysis and Bioelectrocatalysis: Overview and Recent Advances. <i>Annual Review of Physical Chemistry</i> , 2021, 72, 467-488.	4.8	21
99	From Enzyme Stability to Enzymatic Bioelectrode Stabilization Processes. <i>Catalysts</i> , 2021, 11, 497.	1.6	25
100	Enzyme Electrochemistry for Industrial Energy Applications—A Perspective on Future Areas of Focus. <i>ACS Catalysis</i> , 2021, 11, 5951-5967.	5.5	20
101	A self-powered glucose sensor based on BioCapacitor principle with micro-sized enzyme anode employing direct electron transfer type FADGDH. <i>JPhys Energy</i> , 2021, 3, 034009.	2.3	5
102	Immobilization of multicopper oxidase from <i>Pyrobaculum aerophilum</i> onto an electrospun aligned single-walled carbon nanotube surface via a carbon nanotube binding peptide for biocathode. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50937.	1.3	1
103	Carbon nanowalls functionalization for efficient O ₂ reduction catalyzed by laccase using design of experiment. <i>Applied Surface Science</i> , 2021, 547, 149112.	3.1	11
104	Rational Optimization of Tether Binding Length between the Redox Groups and the Polymer Backbone in Electroactive Redox Enzyme Nanocapsules for High-Performance Enzymatic Biofuel Cell. <i>ACS Applied Energy Materials</i> , 2021, 4, 5034-5042.	2.5	2
105	Enzymatic Biofuel Cell: Opportunities and Intrinsic Challenges in Futuristic Applications. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100031.	2.8	38
108	Effects of cathode gas diffusion layer type and membrane electrode assembly preparation on the performance of immobilized glucose oxidase-based enzyme fuel cell. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2686.	0.8	1
110	Physical intelligence as a new paradigm. <i>Extreme Mechanics Letters</i> , 2021, 46, 101340.	2.0	114
111	Biosupercapacitor with an enzymatic cascade at the anode working in a sucrose solution. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113248.	5.3	8
112	Wearable Biofuel Cells: Advances from Fabrication to Application. <i>Advanced Functional Materials</i> , 2021, 31, 2103976.	7.8	38

#	ARTICLE	IF	CITATIONS
113	Research Progress and Prospects of Nanozyme-Based Glucose Biofuel Cells. <i>Nanomaterials</i> , 2021, 11, 2116.	1.9	18
114	Electrochemical Sensing in Contact Lenses. <i>Electroanalysis</i> , 2022, 34, 227-236.	1.5	11
115	Nickel-copper oxide nanoflowers for highly efficient glucose electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28527-28536.	3.8	25
116	A flexible and wearable epidermal ethanol biofuel cell for on-body and real-time bioenergy harvesting from human sweat. <i>Nano Energy</i> , 2021, 86, 106061.	8.2	63
117	Extremophilic Oxidoreductases for the Industry: Five Successful Examples With Promising Projections. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 710035.	2.0	13
118	Bioelectricity production from sweat-activated germination of bacterial endospores. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113293.	5.3	16
119	Development of a new biocathode for a single enzyme biofuel cell fuelled by glucose. <i>Scientific Reports</i> , 2021, 11, 18568.	1.6	13
120	Use of self-assembled monolayers for the sequential and independent immobilisation of enzymes. <i>ChemElectroChem</i> , 0, , .	1.7	2
121	Cobalt/nitrogen doped porous carbon as catalysts for efficient oxygen reduction reaction: Towards hybrid enzymatic biofuel cells. <i>Electrochimica Acta</i> , 2021, 389, 138791.	2.6	14
122	A MXene-based slurry bioanode with potential application in implantable enzymatic biofuel cells. <i>Journal of Power Sources</i> , 2021, 506, 230206.	4.0	10
123	Design of transition metal oxides nanosheets for the direct electrocatalytic oxidation of glucose. <i>Materials Chemistry and Physics</i> , 2021, 269, 124770.	2.0	11
124	Wearable Self-Powered Electrochemical Devices for Continuous Health Management. <i>Advanced Functional Materials</i> , 2021, 31, 2107042.	7.8	58
125	Designing Porous Antifouling Interfaces for High-Power Implantable Biofuel Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2107160.	7.8	14
126	On the use of surface-confined molecular catalysts in fuel cell development. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100765.	2.5	1
127	Microfluidic non-enzymatic biofuel cell integrated with electrodeposited metallic catalysts on a paper based platform. <i>Journal of Power Sources</i> , 2021, 510, 230405.	4.0	6
128	Enhancing bio-catalytic performance of lipase immobilized on ionic liquids modified magnetic polydopamine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111960.	2.5	21
129	Effect of the protection layer formed by cross-linked gelatin on the stability and performance of glucose and oxygen fuel cells. <i>Journal of Energy Chemistry</i> , 2021, 61, 155-162.	7.1	16
130	Enhanced dechlorination of an enzyme-catalyzed electrolysis system by ionic liquids: Electron transfer, enzyme activity and dichloromethane diffusion. <i>Chemosphere</i> , 2021, 281, 130913.	4.2	5

#	ARTICLE	IF	CITATIONS
131	Direct electron transfer of fructose dehydrogenase immobilized on thiol-gold electrodes. <i>Electrochimica Acta</i> , 2021, 392, 138946.	2.6	16
132	Multiscale modelling of diffusion and enzymatic reaction in porous electrodes in Direct Electron Transfer mode. <i>Chemical Engineering Science</i> , 2022, 248, 117157.	1.9	2
133	CuxO nanorods with excellent regenerable NADH peroxidase mimics and its application for selective and sensitive fluorimetric ethanol sensing. <i>Analytica Chimica Acta</i> , 2021, 1186, 339126.	2.6	14
134	Ubiquitous Self-Powered Architecture for Fuel Cell-Based Point-of-Care Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 11447-11457.	5.2	6
135	Self-encapsulated enzyme through in-situ growth of polypyrrole for high-performance enzymatic biofuel cell. <i>Chemical Engineering Journal</i> , 2022, 429, 132148.	6.6	15
136	Passive fuel delivery and efficient anoxic condition in anode improve performance of methanol biofuel cell. <i>Applied Energy</i> , 2022, 305, 117824.	5.1	3
137	Supercapacitive biofuel cells. <i>Current Opinion in Biotechnology</i> , 2022, 73, 179-187.	3.3	13
138	A photo-switch for enzymatic biofuel cells based on the photo-oxidization of electron acceptor in cathode by C-dots nanozyme. <i>Chemical Engineering Journal</i> , 2022, 428, 131258.	6.6	7
139	Electrocatalysis as an enabling technology for organic synthesis. <i>Chemical Society Reviews</i> , 2021, 50, 7941-8002.	18.7	534
140	Investigating the Electrochemical Performance of Smart Self-Powered Bionic Skin Fragment Based on Bioelectricity Generation. <i>Advanced Materials Technologies</i> , 2021, 6, 2000848.	3.0	5
141	Evaluation of photoanode materials used in biophotovoltaic systems for renewable energy generation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4209-4232.	2.5	20
142	Cellulose to electricity conversion by an enzymatic biofuel cell. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4580-4586.	2.5	4
143	Digitization and image-based structure-properties relationship evaluation of a porous gold micro-electrode. <i>Materials and Design</i> , 2020, 193, 108812.	3.3	10
144	The biocompatibility of biofuel cells operating inside the body. <i>Biochemical Society Transactions</i> , 2020, 48, 867-879.	1.6	2
145	Totally organic electrical skin patch powered by flexible biobattery. <i>JPhys Energy</i> , 2020, 2, 044004.	2.3	7
146	Engineering a diaphorase via directed evolution for enzymatic biofuel cell application. <i>Bioresources and Bioprocessing</i> , 2020, 7, .	2.0	7
147	Wearable chem-biosensing devices: from basic research to commercial market. <i>Lab on A Chip</i> , 2021, 21, 4285-4310.	3.1	29
148	Enhancing the catalytic current response of H ₂ oxidation gas diffusion bioelectrodes using an optimized viologen-based redox polymer and [NiFe] hydrogenase. <i>Electrochemical Science Advances</i> , 0, e2100100.	1.2	1

#	ARTICLE	IF	CITATIONS
149	Carbon Nanotube PtSn Nanoparticles for Enhanced Complete Biocatalytic Oxidation of Ethylene Glycol in Biofuel Cells. ACS Materials Au, 2022, 2, 94-102.	2.6	6
150	Eine Redoxpolymer-basierte Gasdiffusions-H ₂ -Oxidationsbioanode mit hoher Stromdichte unter Verwendung von [FeFe]-Hydrogenase aus Desulfovibrio desulfuricans integriert in einer membranfreien Biobrennstoffzelle. Angewandte Chemie, 2020, 132, 16649.	1.6	2
151	Di(Thioether Sulfonate)-Substituted Quinolinedione as a Rapidly Dissoluble and Stable Electron Mediator and Its Application in Sensitive Biosensors. Advanced Healthcare Materials, 2021, , 2101819.	3.9	3
152	Thermal annealing-enhanced bioelectrocatalysis in membrane-less glucose/O ₂ biofuel cell based on hydrophilic carbon fibres. ChemElectroChem, 0, , .	1.7	1
153	Hybrid catalyst cascade for enhanced oxidation of glucose in glucose/air biofuel cell. Bioelectrochemistry, 2022, 143, 107983.	2.4	9
154	Charge regulation engineering to suppress Jahn-Teller distortion in low crystallinity In-doping MnCo ₂ O ₄ for high activity pseudocapacitors and hydrogen evolution reaction. Chemical Engineering Journal, 2022, 430, 132886.	6.6	20
155	BIOTECHNOLOGICAL AND BIOMEDICAL APPLICATIONS OF FUNGAL CELLOBIOSE DEHYDROGENASE. Postepy Mikrobiologii, 2020, 59, 75-86.	0.1	0
156	Redox-active Polymers in Biofuel Cells. RSC Polymer Chemistry Series, 2020, , 332-382.	0.1	1
157	Fundamentals and applications of enzymatic bioelectrocatalysis. , 2023, , 456-491.		1
158	Engineered Nanoenzymes with Multifunctional Properties for Next-Generation Biological and Environmental Applications. Advanced Functional Materials, 2022, 32, 2108650.	7.8	43
159	Complex single-molecule and molecular scale entities in electrochemical environments: Mechanisms and challenges. Electrochemical Science Advances, 2022, 2, e2100157.	1.2	1
160	Effects of Designing and Operating Parameters on the Performance of Glucose Enzymatic Biofuel Cells. Advances in Intelligent Systems and Computing, 2021, , 256-267.	0.5	0
162	Enzyme immobilization: what have we learned in the past five years?. Biofuels, Bioproducts and Biorefining, 2022, 16, 587-608.	1.9	25
163	Fundamental insight into redox enzyme-based bioelectrocatalysis. Bioscience, Biotechnology and Biochemistry, 2022, 86, 141-156.	0.6	8
164	Enzymatic Bioelectrocatalysis. Catalysts, 2021, 11, 1373.	1.6	4
165	An enzyme-free monosaccharide fuel cell using bio-mimetically hemin-intercalated polydopamine as anode and cathode catalysts. Electrochimica Acta, 2022, 405, 139830.	2.6	1
166	Hierarchical porous MoS ₂ particles: excellent multi-enzyme-like activities, mechanism and its sensitive phenol sensing based on inhibition of sulfite oxidase mimics. Journal of Hazardous Materials, 2022, 425, 128053.	6.5	21
167	Electrochemistry of copper efflux oxidase-like multicopper oxidases involved in copper homeostasis. Current Opinion in Electrochemistry, 2022, 32, 100919.	2.5	2

#	ARTICLE	IF	CITATIONS
168	Physically mixed Ni ₂ Co/graphene catalyst for enhanced glucose oxidation in a glucose fuel cell. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 525-537.	2.9	3
169	Electrochemical and spectroelectrochemical characterization of bacteria and bacterial systems. <i>Analyst</i> , 2021, 147, 22-34.	1.7	10
170	A glucose/O ₂ biofuel cell integrated with an exonuclease-powered DNA walker for self-powered sensing of microRNA. <i>Chemical Communications</i> , 2022, 58, 2922-2925.	2.2	7
171	A perspective on development of fuel cell materials: Electrodes and electrolyte. <i>International Journal of Energy Research</i> , 2022, 46, 6953-6988.	2.2	47
172	Between Two Walls: Modeling the Adsorption Behavior of Î ² -Glucosidase A on Bare and SAM-Functionalized Gold Surfaces. <i>Langmuir</i> , 2022, 38, 1313-1323.	1.6	2
173	Elucidating Film Loss and the Role of Hydrogen Bonding of Adsorbed Redox Enzymes by Electrochemical Quartz Crystal Microbalance Analysis. <i>ACS Catalysis</i> , 2022, 12, 1886-1897.	5.5	16
174	Carbon Nanomaterials (CNMs) and Enzymes: From Nanozymes to CNM-Enzyme Conjugates and Biodegradation. <i>Materials</i> , 2022, 15, 1037.	1.3	13
175	Understanding the local chemical environment of bioelectrocatalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	26
176	Organic Î ² -cyclodextrin Nanoparticle: An Efficient Building Block Between Functionalized Poly(pyrrole) Electrodes and Enzymes. <i>Small</i> , 2022, 18, e2105880.	5.2	4
177	Applications of nanotechnology in smart textile industry: A critical review. <i>Journal of Advanced Research</i> , 2022, 38, 55-75.	4.4	98
178	A novel self-powered sensor based on Ni(OH) ₂ /Fe ₂ O ₃ photoanode for glucose detection by converting solar energy into electricity. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164132.	2.8	16
179	Electrogenic Bacteria Promise New Opportunities for Powering, Sensing, and Synthesizing. <i>Small</i> , 2022, 18, e2107902.	5.2	25
180	Investigating the role of metals loaded on nitrogen-doped carbon-nanotube electrodes in electroenzymatic alcohol dehydrogenation. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121195.	10.8	11
181	Recent Advances in Medicinal Chemistry of Ampicillin: Derivatives, Metal Complexes, and Sensing Approaches. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
182	Electrochemical Sensing of Glucose Using Glucose Oxidase/PEDOT:4-Sulfocalix [4]arene/MXene Composite Modified Electrode. <i>Micromachines</i> , 2022, 13, 304.	1.4	28
183	A Bidirectional Bioinspired [FeFe]-Hydrogenase Model. <i>Journal of the American Chemical Society</i> , 2022, 144, 3614-3625.	6.6	31
184	Assembling a Low-volume Biofuel Cell on a Screen-printed Electrode for Glucose Sensing. <i>Electroanalysis</i> , 2022, 34, 1629-1637.	1.5	5
185	Immobilizing Enzymes on a Commercial Polymer: Performance Analysis of a GOx-Laccase Based Enzymatic Biofuel Cell Assembly. <i>Energies</i> , 2022, 15, 2182.	1.6	5

#	ARTICLE	IF	CITATIONS
186	An Anti-Biofouling Flexible Fiber Biofuel Cell Working in the Brain. <i>Small Methods</i> , 2022, 6, e2200142.	4.6	11
187	A sweat-activated, wearable microbial fuel cell for long-term, on-demand power generation. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114128.	5.3	20
188	A membraneless starch/O ₂ biofuel cell based on bacterial surface regulable displayed sequential enzymes of glucoamylase and glucose dehydrogenase. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114197.	5.3	6
189	Flexible bioelectrode via in-situ growth of MOF/enzyme on electrospun nanofibers for stretchable enzymatic biofuel cell. <i>Chemical Engineering Journal</i> , 2022, 440, 135719.	6.6	13
190	Enhancement of bioelectrochemical dioxygen reduction with oxygen-enriching materials. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 100966.	2.5	2
191	The direct use of enzymatic biofuel cells as functional bioelectronics. <i>EScience</i> , 2022, 2, 1-9.	25.0	34
193	A Short Overview of Biological Fuel Cells. <i>Membranes</i> , 2022, 12, 427.	1.4	8
194	Metal-organic framework-erythrocytic hybrid surfaces with enhanced oxygen reduction performance for enzymatic biofuel cells—An updated strategy. <i>Journal of Power Sources</i> , 2022, 535, 231411.	4.0	1
196	MOF based electrode platforms in the assembly of Biofuel cells and Self-powered sensors. <i>ChemElectroChem</i> , 0, , .	1.7	1
197	Flexible self-charging power sources. <i>Nature Reviews Materials</i> , 2022, 7, 870-886.	23.3	159
198	Dehydrogenase-Functionalized Interfaced Materials in Electroenzymatic and Photoelectroenzymatic CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6141-6156.	3.2	7
199	A hybrid bioelectrochemical device based on glucose/O ₂ enzymatic biofuel cell for energy conversion and storage. <i>Electrochimica Acta</i> , 2022, 420, 140440.	2.6	11
200	Engineering bio-interfaces for the direct electron transfer of <i>Myriococcus thermophilum</i> cellobiose dehydrogenase: Towards a mediator-less biosupercapacitor/biofuel cell hybrid. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114337.	5.3	7
201	Physical intelligence as a new paradigm.. <i>Extreme Mechanics Letters</i> , 2021, 46, 101340.	2.0	8
202	Energy Harvesting by Mesoporous Reduced Graphene Oxide Enhanced the Mediator-Free Glucose-Powered Enzymatic Biofuel Cell for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24229-24244.	4.0	15
203	High-performance hybrid biofuel cells using amphiphilic assembly based enzyme electrodes. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	4
204	Passive Small Direct Alcohol Fuel Cells for Low-Power Portable Applications: Assessment Based on Innovative Increments since 2018. <i>Energies</i> , 2022, 15, 3787.	1.6	7
205	Molecular Modeling in Anion Exchange Membrane Research: A Brief Review of Recent Applications. <i>Molecules</i> , 2022, 27, 3574.	1.7	6

#	ARTICLE	IF	CITATIONS
206	Recent advances in medicinal chemistry of ampicillin: Derivatives, metal complexes, and sensing approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 155, 116691.	5.8	11
207	Modulating the Adsorption Orientation of Methionine-rich Laccase by Tailoring the Surface Chemistry of Single-walled Carbon Nanotubes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, , 112660.	2.5	5
208	Cellulose-acetate coating of carbon cloth diffusion layer for liquid-fed fuel cell applications. <i>Journal of Power Sources</i> , 2022, 542, 231739.	4.0	2
209	Nitro-oxidized carboxylated cellulose nanofiber based nanopapers and their PEM fuel cell performance. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3669-3680.	2.5	11
210	Diazonium Salts and Related Compounds in Electrochemical Energy Storage and Conversion. <i>Physical Chemistry in Action</i> , 2022, , 427-451.	0.1	2
211	Hollow Bioelectrodes Based on Buckypaper Assembly. Application to the Electroenzymatic Reduction of O ₂ . <i>Nanomaterials</i> , 2022, 12, 2399.	1.9	3
212	Stoichiometric Conversion of Maltose for Biomanufacturing by <i>In Vitro</i> Synthetic Enzymatic Biosystems. <i>Biodesign Research</i> , 2022, 2022, .	0.8	3
213	Electrochemical Immobilisation of Glucose Oxidase for the Controlled Production of H ₂ O ₂ in a Biocatalytic Flow Reactor. <i>ChemElectroChem</i> , 2022, 9, .	1.7	4
214	Site-directed capture of laccase at edge-rich graphene via an interfacial hydrophobicity effect for direct electrochemistry study. <i>Journal of Electroanalytical Chemistry</i> , 2022, 919, 116562.	1.9	1
215	Sensitive electrochemical sequential enzyme biosensor for glucose and starch based on glucoamylase- and glucose oxidase-controllably co-displayed yeast recombinant. <i>Analytica Chimica Acta</i> , 2022, 1221, 340173.	2.6	5
216	Effects of interactions between SPEEK or Nafion ionomers and bilirubin oxidase on O ₂ enzymatic reduction. <i>Electrochimica Acta</i> , 2022, 426, 140787.	2.6	0
217	Functional Fiber Materials to Smart Fiber Devices. <i>Chemical Reviews</i> , 2023, 123, 613-662.	23.0	69
218	Advances in Microfluidic Technologies for Energy Storage and Release Systems. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	2
219	Evaluation of TEMPO and Oxalate Oxidase Enzyme for Complete Ethylene Glycol Oxidation. <i>ChemElectroChem</i> , 0, , .	1.7	0
220	Engineering Self-Powered Electrochemical Sensors Using Analyzed Liquid Sample as the Sole Energy Source. <i>Advanced Science</i> , 2022, 9, .	5.6	12
221	Flexible dibutyl phthalate aptasensor based on self-powered CNTs-rGO enzymatic biofuel cells. <i>Sensors and Actuators B: Chemical</i> , 2022, 371, 132468.	4.0	10
222	Carbon based-nanomaterials used in biofuel cells – A review. <i>Fuel</i> , 2023, 331, 125634.	3.4	23
223	A glucose/O ₂ biofuel cell as self-powered sensor for ultrasensitive microRNA detection based on CRISPR-Cas12a cleavage and duplex-specific nuclease-assisted target recycling. <i>Sensors and Actuators B: Chemical</i> , 2022, 373, 132700.	4.0	3

#	ARTICLE	IF	CITATIONS
224	A novel membraneless β -glucan/O ₂ enzymatic fuel cell based on β -glucosidase (RmBgl3B)/pyranose dehydrogenase (AmpDH) co-immobilized onto buckypaper electrode. <i>Bioelectrochemistry</i> , 2022, 148, 108254.	2.4	3
225	Microbial Electrochemical Systems: Recent Advancements and Future Prospects. <i>Clean Energy Production Technologies</i> , 2022, , 107-117.	0.3	0
226	Biorefinery of galacturonic acid using a biofuel cell as a reactor. <i>Reaction Chemistry and Engineering</i> , 0, , .	1.9	0
227	Biocatalysis in ionic liquids for a low carbon future. , 2022, , 299-316.		0
228	Enzymatic and Microbial Electrochemistry: Approaches and Methods. <i>ACS Measurement Science Au</i> , 2022, 2, 517-541.	1.9	11
229	Bioelectrodes with Enzyme Cascade Reactions. , 2023, , 157-179.		0
230	Conformational triggering in voltammetry and single-molecule conductivity of two-centre redox metalloproteins: Cytochrome c4 and copper nitrite reductase. <i>Current Opinion in Electrochemistry</i> , 2022, 36, 101137.	2.5	2
231	Flexible Biofuel Cell in a Tube (i.e. Tube): An Entirely Self-Contained Biofuel Cell for Wearable Green Bioenergy Harvesting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
232	Modeling of the Electrostatic Interaction and Catalytic Activity of [NiFe] Hydrogenases on a Planar Electrode. <i>Journal of Physical Chemistry B</i> , 2022, 126, 8777-8790.	1.2	3
233	Development of an Integrated Salt Cartridge-Reverse Electrodialysis (Red) Device to Increase Electrolyte Concentrations to Biomedical Devices. <i>Membranes</i> , 2022, 12, 990.	1.4	1
234	Bimetallic Electrocatalyst of Hyaluronate-Au@Pt for Durable Oxygen Reduction in Biofuel Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 12475-12484.	2.5	1
235	Challenges in Biomaterials Science for Electrochemical Biosensing and Bioenergy. <i>Chemistry of Materials</i> , 2022, 34, 10211-10222.	3.2	5
236	Hierarchical Porous Carbon Fibers for Enhanced Interfacial Electron Transfer of Electroactive Biofilm Electrode. <i>Catalysts</i> , 2022, 12, 1187.	1.6	1
237	Tailoring Nanostructured Supports to Achieve High Performance in Enzymatic Biofuel Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 13113-13127.	2.5	4
238	One-step electrochemical approach of enzyme immobilization for bioelectrochemical applications. <i>Synthetic Metals</i> , 2022, 291, 117205.	2.1	12
239	Structural design of anthraquinone bridges in direct electron transfer of fructose dehydrogenase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 220, 112941.	2.5	2
240	Tailoring enzymatic loading capacity on 3D macroporous gold by catalytic hairpin assembly and hybridization chain reaction: Application for ultrasensitive self-powered microRNA detection. <i>Biosensors and Bioelectronics</i> , 2023, 219, 114813.	5.3	11
241	Bioinspired and Bioderived Aqueous Electrocatalysis. <i>Chemical Reviews</i> , 2023, 123, 2311-2348.	23.0	22

#	ARTICLE	IF	CITATIONS
242	Mechanochemistry-guided reticular assembly for stabilizing enzymes with covalent organic frameworks. <i>Cell Reports Physical Science</i> , 2022, 3, 101153.	2.8	14
243	Challenges in Elucidating the Free Energy Scheme of the Laccase Catalyzed Reduction of Oxygen. <i>ChemCatChem</i> , 2023, 15, .	1.8	6
244	Performance evaluation and mechanism study of a dual-electrolyte self-pumping microfluidic fuel cell. <i>Energy Conversion and Management</i> , 2023, 276, 116542.	4.4	6
245	Nanostructured electrodes based on multiwalled carbon nanotube/glyconanoparticles for the specific immobilization of bilirubin oxidase: Application to the electrocatalytic O ₂ reduction. <i>Bioelectrochemistry</i> , 2023, 150, 108328.	2.4	3
246	Enzymatic biofuel cell-powered iontophoretic facial mask for enhanced transdermal drug delivery. <i>Biosensors and Bioelectronics</i> , 2023, 223, 115019.	5.3	7
247	Review of Progress and Prospects in Research on Enzymatic and Non- Enzymatic Biofuel Cells; Specific Emphasis on 2D Nanomaterials. <i>Current Biotechnology</i> , 2022, 11, 212-229.	0.2	1
248	Optimizing Covalent Immobilization of Glucose Oxidase and Laccase on PV15 Fluoropolymer-Based Bioelectrodes. <i>Journal of Functional Biomaterials</i> , 2022, 13, 270.	1.8	1
249	Producing Micro-Power with Microfluidic Enzymatic Biofuel Cells: A Comprehensive Review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2023, 10, 587-609.	2.7	1
250	Facile Functionalization of Carbon Electrodes for Efficient Electroenzymatic Hydrogen Production. <i>Jacs Au</i> , 2023, 3, 124-130.	3.6	2
251	Emerging applications of nano-modified bio-fuel cells. , 2023, , 213-242.		0
252	Recent advances in the role of biocatalyst in biofuel cells and its application: An overview. <i>Biotechnology and Genetic Engineering Reviews</i> , 0, , 1-39.	2.4	1
253	Chlorhexidine digluconate exerts bactericidal activity vs. gram positive Staphylococci with bioelectrocatalytic compatibility: High level disinfection for implantable biofuel cells. <i>Bioelectrochemistry</i> , 2023, , 108435.	2.4	0
254	Electro-enzyme coupling systems for selective reduction of CO ₂ . <i>Journal of Energy Chemistry</i> , 2023, 80, 140-162.	7.1	10
255	Influence of distal glycan mimics on direct electron transfer performance for bilirubin oxidase bioelectrocatalysts. <i>Bioelectrochemistry</i> , 2023, 152, 108413.	2.4	1
256	Biofuel Cells and Biobatteries: Misconceptions, Opportunities, and Challenges. <i>Batteries</i> , 2023, 9, 119.	2.1	9
257	Glucose Oxidase-like Rhodium Single-Atom Nanozymes: A Mimic Platform for Biometabolism and Electrometabolism of Glucose Oxidation at Neutral pH. <i>ACS Energy Letters</i> , 2023, 8, 1697-1704.	8.8	5
258	Polyaniline combining with ultrathin manganese dioxide nanosheets on carbon nanofibers as effective binder-free supercapacitor electrode. <i>Electrochimica Acta</i> , 2023, 450, 142275.	2.6	12
259	Availability of Biomass and Potential of Nanotechnologies for Bioenergy Production in Jordan. <i>Processes</i> , 2023, 11, 992.	1.3	6

#	ARTICLE	IF	CITATIONS
260	Electricity generation. , 2023, , 273-299.		0
261	Shield, Anchor, and Adhesive Roles of Methylene Blue in Tyrosinase Adsorbed on Carbon Felt for a Flow Injection Amperometric Enzyme Biosensor for Phenolic Substrates and Inhibitors. Langmuir, 2023, 39, 4676-4691.	1.6	1
262	Molecular Insights of Cellobiose Dehydrogenase Adsorption on Self-Assembled Monolayers. Langmuir, 2023, 39, 5880-5890.	1.6	4
263	Carbon nanostructures for energy generation and storage. , 2023, , 57-94.		0
264	Advances and prospects of biodegradable polymer nanocomposites for fuel cell applications. , 2023, , 599-637.		0
279	Carbon-Based Nanostructured Bio-Assemblies for Bioelectrochemical Applications. , 2024, 2, 208-224.		0
286	Electrode manufacturing based on printing: a mini review. International Journal of Advanced Manufacturing Technology, 0, , .	1.5	1
287	Fuel cell technology for green energy generation. , 2023, , 555-573.		0
289	Engineering carbon nanomaterials toward high-efficiency bioelectrocatalysis for enzymatic biofuel cells: a review. Materials Chemistry Frontiers, 2023, 7, 5806-5825.	3.2	2
301	Recent advances of biosensors on microneedles. Analytical Methods, 2023, 15, 5711-5730.	1.3	2