

Shelley D Minter

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

397
papers

15,787
citations

65
h-index

109
g-index

487
ext. papers

18,581
ext. citations

8.9
avg, IF

7.36
L-index

#	Paper	IF	Citations
397	Catalysts for nitrogen reduction to ammonia. <i>Nature Catalysis</i> , 2018 , 1, 490-500	36.5	608
396	Electricity generation from artificial wastewater using an upflow microbial fuel cell. <i>Environmental Science & Technology</i> , 2005 , 39, 5262-7	10.3	599
395	Enzyme-based biofuel cells. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 228-34	11.4	420
394	Substrate channelling as an approach to cascade reactions. <i>Nature Chemistry</i> , 2016 , 8, 299-309	17.6	399
393	An upflow microbial fuel cell with an interior cathode: assessment of the internal resistance by impedance spectroscopy. <i>Environmental Science & Technology</i> , 2006 , 40, 5212-7	10.3	385
392	Enzymatic biofuel cells: 30 years of critical advancements. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 91-102	11.8	362
391	Enzyme catalysed biofuel cells. <i>Energy and Environmental Science</i> , 2008 , 1, 320	35.4	323
390	Extended lifetime biofuel cells. <i>Chemical Society Reviews</i> , 2008 , 37, 1188-96	58.5	300
389	Nanomaterials for bio-functionalized electrodes: recent trends. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4878-4908	7.3	260
388	Development of alcohol/O ₂ biofuel cells using salt-extracted tetrabutylammonium bromide/Nafion membranes to immobilize dehydrogenase enzymes. <i>Electrochimica Acta</i> , 2005 , 50, 2521-2525	6.7	225
387	Recent advances in material science for developing enzyme electrodes. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2313-22	11.8	223
386	Improving the environment for immobilized dehydrogenase enzymes by modifying Nafion with tetraalkylammonium bromides. <i>Biomacromolecules</i> , 2004 , 5, 1241-7	6.9	174
385	Self-Powered Biosensors. <i>ACS Sensors</i> , 2018 , 3, 44-53	9.2	171
384	Scalable and safe synthetic organic electroreduction inspired by Li-ion battery chemistry. <i>Science</i> , 2019 , 363, 838-845	33.3	166
383	Biofuel cells: enhanced enzymatic bioelectrocatalysis. <i>Annual Review of Analytical Chemistry</i> , 2012 , 5, 157-79	12.5	160
382	Bioelectrochemical Haber-Bosch Process: An Ammonia-Producing H ₂ /N ₂ Fuel Cell. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2680-2683	16.4	155
381	Anthracene-Modified Multi-Walled Carbon Nanotubes as Direct Electron Transfer Scaffolds for Enzymatic Oxygen Reduction. <i>ACS Catalysis</i> , 2011 , 1, 1683-1690	13.1	155

380	Rational design of quinones for high power density biofuel cells. <i>Chemical Science</i> , 2015 , 6, 4867-4875	9.4	153
379	Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6392-6402	16.4	152
378	Development of glycerol/O ₂ biofuel cell. <i>Journal of Power Sources</i> , 2007 , 173, 156-161	8.9	142
377	Nitrogenase bioelectrocatalysis: heterogeneous ammonia and hydrogen production by MoFe protein. <i>Energy and Environmental Science</i> , 2016 , 9, 2550-2554	35.4	139
376	Microchip-based ethanol/oxygen biofuel cell. <i>Lab on A Chip</i> , 2005 , 5, 218-25	7.2	138
375	Development of a membraneless ethanol/oxygen biofuel cell. <i>Electrochimica Acta</i> , 2006 , 51, 2168-2172	6.7	138
374	A synthetic chemist's guide to electroanalytical tools for studying reaction mechanisms. <i>Chemical Science</i> , 2019 , 10, 6404-6422	9.4	136
373	Complete Oxidation of Glycerol in an Enzymatic Biofuel Cell. <i>Fuel Cells</i> , 2009 , 9, 63-69	2.9	131
372	New materials for biological fuel cells. <i>Materials Today</i> , 2012 , 15, 166-173	21.8	129
371	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020 , 369,	33.3	124
370	Effects of hydrophobic modification of chitosan and Nafion on transport properties, ion-exchange capacities, and enzyme immobilization. <i>Journal of Membrane Science</i> , 2006 , 282, 276-283	9.6	123
369	Citric acid cycle biomimic on a carbon electrode. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 945-50	11.8	120
368	Physical Organic Approach to Persistent, Cyclable, Low-Potential Electrolytes for Flow Battery Applications. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2924-2927	16.4	118
367	Enzyme Immobilization in Biotechnology. <i>Recent Patents on Engineering</i> , 2008 , 2, 195-200	0.3	116
366	A self-powered amperometric lactate biosensor based on lactate oxidase immobilized in dimethylferrocene-modified LPEI. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 26-31	11.8	115
365	Challenges for successful implantation of biofuel cells. <i>Bioelectrochemistry</i> , 2018 , 124, 57-72	5.6	114
364	Contact lens biofuel cell tested in a synthetic tear solution. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 142-148	14.8	108
363	Krebs cycle metabolon: structural evidence of substrate channeling revealed by cross-linking and mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1851-4	16.4	104

- 362 Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12550-12557 11.5 103
- 361 Direct enzymatic bioelectrocatalysis: differentiating between myth and reality. *Journal of the Royal Society Interface*, **2017**, 14, 4.1 100
- 360 Fast and efficient removal of chromium (VI) anionic species by a reusable chitosan-modified multi-walled carbon nanotube composite. *Chemical Engineering Journal*, **2018**, 339, 259-267 14.7 98
- 359 Growth of phthalocyanine doped and undoped nanotubes using mild synthesis conditions for development of novel oxygen reduction catalysts. *ACS Applied Materials & Interfaces*, **2010**, 2, 3295-302 9.5 96
- 358 Biofuel Cells for Portable Power. *Electroanalysis*, **2010**, 22, 727-731 3 92
- 357 The progress and outlook of bioelectrocatalysis for the production of chemicals, fuels and materials. *Nature Catalysis*, **2020**, 3, 225-244 36.5 90
- 356 Improving the microenvironment for enzyme immobilization at electrodes by hydrophobically modifying chitosan and Nafion[®] polymers. *Journal of Membrane Science*, **2008**, 311, 81-88 9.6 89
- 355 Enzymatic Biofuel Cell for Oxidation of Glucose to CO₂. *ACS Catalysis*, **2012**, 2, 91-94 13.1 87
- 354 Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. *Chemical Reviews*, **2020**, 120, 12903-12993 68.1 86
- 353 Anthracene-modified pyrenes immobilized on carbon nanotubes for direct electroreduction of O₂ by laccase. *Electrochemistry Communications*, **2013**, 34, 157-160 5.1 85
- 352 Hydrogen peroxide produced by glucose oxidase affects the performance of laccase cathodes in glucose/oxygen fuel cells: FAD-dependent glucose dehydrogenase as a replacement. *Physical Chemistry Chemical Physics*, **2013**, 15, 19371-9 3.6 85
- 351 Metabolon catalyzed pyruvate/air biofuel cell. *Journal of the American Chemical Society*, **2010**, 132, 6288-6.4 85
- 350 Hybrid enzymatic and organic electrocatalytic cascade for the complete oxidation of glycerol. *Journal of the American Chemical Society*, **2014**, 136, 15917-20 16.4 84
- 349 Effect of sulfonamides as carbonic anhydrase VA and VB inhibitors on mitochondrial metabolic energy conversion. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1544-8 3.4 84
- 348 3,4-Dihydroxyphenylacetaldehyde and hydrogen peroxide generate a hydroxyl radical: possible role in Parkinson's disease pathogenesis. *Molecular Brain Research*, **2001**, 93, 1-7 83
- 347 High-Performance Oligomeric Catholytes for Effective Macromolecular Separation in Nonaqueous Redox Flow Batteries. *ACS Central Science*, **2018**, 4, 189-196 16.8 82
- 346 Pyruvate/Air Enzymatic Biofuel Cell Capable of Complete Oxidation. *Electrochemical and Solid-State Letters*, **2009**, 12, F26 77
- 345 Employing FAD-dependent glucose dehydrogenase within a glucose/oxygen enzymatic fuel cell operating in human serum. *Bioelectrochemistry*, **2015**, 106, 56-63 5.6 76

344	Predicting Electrocatalytic Properties: Modeling Structure-Activity Relationships of Nitroxyl Radicals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 16179-86	16.4	75
343	Hybrid Biofuel Cell: Microbial Fuel Cell with an Enzymatic Air-Breathing Cathode. <i>ACS Catalysis</i> , 2011 , 1, 994-997	13.1	73
342	Fabrication of macroporous chitosan scaffolds doped with carbon nanotubes and their characterization in microbial fuel cell operation. <i>Enzyme and Microbial Technology</i> , 2011 , 48, 458-65	3.8	73
341	Highly ordered multilayered 3D graphene decorated with metal nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1639-1645	13	72
340	Complete oxidation of methanol in biobattery devices using a hydrogel created from three modified dehydrogenases. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1437-40	16.4	72
339	Organelle-based biofuel cells: Immobilized mitochondria on carbon paper electrodes. <i>Electrochimica Acta</i> , 2008 , 53, 6698-6703	6.7	71
338	Oxidation of Biofuels: Fuel Diversity and Effectiveness of Fuel Oxidation through Multiple Enzyme Cascades. <i>Electroanalysis</i> , 2010 , 22, 757-764	3	68
337	Recent Developments in Nitrogen Reduction Catalysts: A Virtual Issue. <i>ACS Energy Letters</i> , 2019 , 4, 163-166	16.1	68
336	Bilirubin oxidase bioelectrocatalytic cathodes: the impact of hydrogen peroxide. <i>Chemical Communications</i> , 2014 , 50, 94-6	5.8	67
335	Enzymatic biofuel cells utilizing a biomimetic cofactor. <i>Chemical Communications</i> , 2012 , 48, 1898-900	5.8	67
334	Methanol Production via Bioelectrocatalytic Reduction of Carbon Dioxide: Role of Carbonic Anhydrase in Improving Electrode Performance. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, E9		66
333	Poly(methylene green) employed as molecularly imprinted polymer matrix for electrochemical sensing. <i>Analyst</i> , 2006 , 131, 257-61	5	66
332	Enzyme Cascade for Catalyzing Sucrose Oxidation in a Biofuel Cell. <i>ACS Catalysis</i> , 2013 , 3, 2729-2737	13.1	65
331	Design of chitosan gel pore structure: towards enzyme catalyzed flow-through electrodes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 667		64
330	Utilization of enzyme cascades for complete oxidation of lactate in an enzymatic biofuel cell. <i>Electrochimica Acta</i> , 2011 , 56, 10772-10775	6.7	61
329	Modified biochar for phosphate adsorption in environmentally relevant conditions. <i>Chemical Engineering Journal</i> , 2020 , 380, 122375	14.7	61
328	Membraneless glucose/O ₂ microfluidic enzymatic biofuel cell using pyrolyzed photoresist film electrodes. <i>Lab on A Chip</i> , 2013 , 13, 2972-9	7.2	60
327	Efficient NADH Regeneration by a Redox Polymer-Immobilized Enzymatic System. <i>ACS Catalysis</i> , 2019 , 9, 5486-5495	13.1	58

326	Direct Evidence for Metabolon Formation and Substrate Channeling in Recombinant TCA Cycle Enzymes. <i>ACS Chemical Biology</i> , 2016 , 11, 2847-2853	4.9	58
325	Nitroaromatic actuation of mitochondrial bioelectrocatalysis for self-powered explosive sensors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15272-3	16.4	58
324	Redox polymers in electrochemical systems: From methods of mediation to energy storage. <i>Current Opinion in Electrochemistry</i> , 2019 , 15, 1-6	7.2	56
323	DNA-functionalized Pt nanoparticles as catalysts for chemically powered micromotors: toward signal-on motion-based DNA biosensor. <i>Chemical Communications</i> , 2015 , 51, 4782-4	5.8	56
322	Simplifying Enzymatic Biofuel Cells: Immobilized Naphthoquinone as a Biocathodic Orientational Moiety and Bioanodic Electron Mediator. <i>ACS Catalysis</i> , 2015 , 5, 1240-1244	13.1	56
321	Effects of annealing on mixture-cast membranes of Nafion [®] and quaternary ammonium bromide salts. <i>Journal of Membrane Science</i> , 2003 , 213, 55-66	9.6	54
320	Inhibition and activation of glucose oxidase bioanodes for use in a self-powered EDTA sensor. <i>Analytical Chemistry</i> , 2011 , 83, 5436-41	7.8	53
319	Creating a Low-Potential Redox Polymer for Efficient Electroenzymatic CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6582-6586	16.4	52
318	Isolation and purification of PQQ-dependent lactate dehydrogenase from <i>Gluconobacter</i> and use for direct electron transfer at carbon and gold electrodes. <i>Bioelectrochemistry</i> , 2008 , 74, 73-7	5.6	52
317	Evaluating Enzyme Cascades for Methanol/Air Biofuel Cells Based on NAD ⁺ -Dependent Enzymes. <i>Electroanalysis</i> , 2010 , 22, 807-812	3	51
316	Tailoring Biointerfaces for Electrocatalysis. <i>Langmuir</i> , 2016 , 32, 2291-301	4	50
315	Microbial fuel cells in saline and hypersaline environments: Advancements, challenges and future perspectives. <i>Bioelectrochemistry</i> , 2018 , 120, 127-137	5.6	49
314	TEMPO-Modified Linear Poly(ethylenimine) for Immobilization-Enhanced Electrocatalytic Oxidation of Alcohols. <i>ACS Catalysis</i> , 2015 , 5, 5519-5524	13.1	47
313	Hybrid Glucose/O ₂ Biobattery and Supercapacitor Utilizing a Pseudocapacitive Dimethylferrocene Redox Polymer at the Bioanode. <i>ACS Energy Letters</i> , 2016 , 1, 380-385	20.1	47
312	Standardized Characterization of Electrocatalytic Electrodes. <i>Electroanalysis</i> , 2008 , 20, 1099-1109	3	46
311	Mitochondrial biofuel cells: expanding fuel diversity to amino acids. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 86-92	3.6	45
310	High Current Density Air-Breathing Laccase Biocathode. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B557	3.9	45
309	Bioelectrochemical Systems as a Multipurpose Biosensing Tool: Present Perspective and Future Outlook. <i>ChemElectroChem</i> , 2017 , 4, 834-842	4.3	44

308	Wiring of Photosystem I and Hydrogenase on an Electrode for Photoelectrochemical H ₂ Production by using Redox Polymers for Relatively Positive Onset Potential. <i>ChemElectroChem</i> , 2017 , 4, 90-95	4.3	44
307	Krebs cycle metabolon formation: metabolite concentration gradient enhanced compartmentation of sequential enzymes. <i>Chemical Communications</i> , 2015 , 51, 1244-7	5.8	43
306	Effects of mixture casting Nafion [®] with quaternary ammonium bromide salts on the ion-exchange capacity and mass transport in the membranes. <i>Journal of Membrane Science</i> , 2002 , 205, 3-10	9.6	43
305	Microbial amperometric biosensor for online herbicide detection: Photocurrent inhibition of <i>Anabaena variabilis</i> . <i>Electrochimica Acta</i> , 2019 , 302, 102-108	6.7	42
304	Mechanistic study of nickel based catalysts for oxygen evolution and methanol oxidation in alkaline medium. <i>Journal of Power Sources</i> , 2015 , 284, 27-37	8.9	42
303	Laccase Inhibition by Arsenite/Arsenate: Determination of Inhibition Mechanism and Preliminary Application to a Self-Powered Biosensor. <i>Analytical Chemistry</i> , 2016 , 88, 3243-8	7.8	42
302	Halotolerant extremophile bacteria from the Great Salt Lake for recycling pollutants in microbial fuel cells. <i>Journal of Power Sources</i> , 2017 , 356, 310-318	8.9	41
301	Upgraded Bioelectrocatalytic N Fixation: From N to Chiral Amine Intermediates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4963-4971	16.4	41
300	Paper-based enzymatic microfluidic fuel cell: From a two-stream flow device to a single-stream lateral flow strip. <i>Journal of Power Sources</i> , 2016 , 326, 410-416	8.9	41
299	Direct electron transfer-based bioanodes for ethanol biofuel cells using PQQ-dependent alcohol and aldehyde dehydrogenases. <i>Electrochimica Acta</i> , 2013 , 87, 323-329	6.7	41
298	Self-powered sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1605-11	4.4	41
297	Structure and Electrochemical Properties of Electrocatalysts for NADH Oxidation. <i>Electroanalysis</i> , 2010 , 22, 799-806	3	41
296	Investigating the Role of Ligand Electronics on Stabilizing Electrocatalytically Relevant Low-Valent Co(I) Intermediates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1382-1392	16.4	40
295	Pyrene hydrogel for promoting direct bioelectrochemistry: ATP-independent electroenzymatic reduction of N. <i>Chemical Science</i> , 2018 , 9, 5172-5177	9.4	40
294	Electroenzymatic C-C Bond Formation from CO. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5041-5044	16.4	39
293	A new era for electron bifurcation. <i>Current Opinion in Chemical Biology</i> , 2018 , 47, 32-38	9.7	39
292	Density of nafion exchanged with transition metal complexes and tetramethyl ammonium, ferrous, and hydrogen ions: commercial and recast films. <i>Analytical Chemistry</i> , 2002 , 74, 4794-9	7.8	39
291	Nitrogenase Bioelectrocatalysis: From Understanding Electron-Transfer Mechanisms to Energy Applications. <i>ACS Energy Letters</i> , 2018 , 3, 2736-2742	20.1	39

- 290 Photobioelectrocatalysis of Intact Chloroplasts for Solar Energy Conversion. *ACS Catalysis*, **2017**, 7, 2257-2265 38
- 289 Mechanism of Nitrogenase H Formation by Metal-Hydride Protonation Probed by Mediated Electrocatalysis and H/D Isotope Effects. *Journal of the American Chemical Society*, **2017**, 139, 13518-13524 16.4 38
- 288 Improving the performance of lactate/oxygen biofuel cells using a microfluidic design. *Journal of Power Sources*, **2017**, 342, 546-552 8.9 37
- 287 The photobioelectrochemical activity of thylakoid bioanodes is increased via photocurrent generation and improved contacts by membrane-intercalating conjugated oligoelectrolytes. *Energy and Environmental Science*, **2015**, 8, 2698-2706 35.4 37
- 286 A sustainable adsorbent for phosphate removal: modifying multi-walled carbon nanotubes with chitosan. *Journal of Materials Science*, **2018**, 53, 12641-12649 4.3 36
- 285 Azine/hydrogel/nanotube composite-modified electrodes for NADH catalysis and enzyme immobilization. *Electrochimica Acta*, **2012**, 72, 207-214 6.7 36
- 284 Bioelectrocatalytic Oxidation of Glucose in CNT Impregnated Hydrogels: Advantages of Synthetic Enzymatic Metabolon Formation. *ACS Catalysis*, **2012**, 2, 17-25 13.1 36
- 283 Mitochondrial bioelectrocatalysis for biofuel cell applications. *Electrochimica Acta*, **2009**, 54, 7268-7273 6.7 36
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- 281 Nitrogenase Bioelectrochemistry for Synthesis Applications. *Accounts of Chemical Research*, **2019**, 52, 3351-3360 24.3 36
- 280 Standalone operation of an EGO-FET for ultra-sensitive detection of HIV. *Biosensors and Bioelectronics*, **2020**, 156, 112103 11.8 35
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- 278 Photobioelectrochemistry: Solar Energy Conversion and Biofuel Production with Photosynthetic Catalysts. *Journal of the Electrochemical Society*, **2014**, 161, H647-H655 3.9 35
- 277 Effects of degree of deacetylation on enzyme immobilization in hydrophobically modified chitosan. *Carbohydrate Polymers*, **2009**, 77, 420-424 10.3 35
- 276 Raman Spectroscopy Reveals Selective Interactions of Cytochrome c with Cardiolipin That Correlate with Membrane Permeability. *Journal of the American Chemical Society*, **2017**, 139, 3851-3860 16.4 34
- 275 NAD-dependent dehydrogenase bioelectrocatalysis: the ability of a naphthoquinone redox polymer to regenerate NAD. *Chemical Communications*, **2016**, 52, 1147-50 5.8 34
- 274 Investigating the Nature of the Active Sites for the CO₂ Reduction Reaction on Carbon-Based Electrocatalysts. *ACS Catalysis*, **2019**, 9, 7668-7678 13.1 34
- 273 Simulation of Multistep Enzyme-Catalyzed Methanol Oxidation in Biofuel Cells. *Journal of the Electrochemical Society*, **2011**, 158, B580 3.9 34

272	Substrate Channeling in an Artificial Metabolon: A Molecular Dynamics Blueprint for an Experimental Peptide Bridge. <i>ACS Catalysis</i> , 2017 , 7, 2486-2493	13.1	33
271	Tunable hierarchical macro/mesoporous gold microwires fabricated by dual-templating and dealloying processes. <i>Nanoscale</i> , 2013 , 5, 7849-54	7.7	33
270	Investigating the Impact of Multi-Heme Pyrroloquinoline Quinone-Aldehyde Dehydrogenase Orientation on Direct Bioelectrocatalysis via Site Specific Enzyme Immobilization. <i>ACS Catalysis</i> , 2013 , 3, 1756-1763	13.1	33
269	Poly(neutral red) as a NAD ⁺ reduction catalyst and a NADH oxidation catalyst: Towards the development of a rechargeable biobattery. <i>Electrochimica Acta</i> , 2011 , 56, 1585-1590	6.7	33
268	High performance thylakoid bio-solar cell using laccase enzymatic biocathodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9062-5	3.6	31
267	Membraneless enzymatic ethanol/O ₂ fuel cell: Transitioning from an air-breathing Pt-based cathode to a bilirubin oxidase-based biocathode. <i>Journal of Power Sources</i> , 2016 , 324, 208-214	8.9	31
266	Bioelectrocatalysis of ethanol via PQQ-dependent dehydrogenases utilizing carbon nanomaterial supports. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2374-80	1.3	30
265	Electroreductive Olefin-Ketone Coupling. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20979-20986	8.6	30
264	Modeling Carbon Nanotube Connectivity and Surface Activity in a Contact Lens Biofuel Cell. <i>Electrochimica Acta</i> , 2016 , 203, 30-40	6.7	30
263	DNA Redox Hydrogels: Improving Mediated Enzymatic Bioelectrocatalysis. <i>ACS Catalysis</i> , 2016 , 6, 2603-2607	6.0	29
262	Enzyme cascades in biofuel cells. <i>Current Opinion in Electrochemistry</i> , 2017 , 5, 114-120	7.2	29
261	Highly ordered tailored three-dimensional hierarchical nano/microporous gold/carbon architectures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11950		29
260	Understanding Biophotocurrent Generation in Photosynthetic Purple Bacteria. <i>ACS Catalysis</i> , 2019 , 9, 867-873	13.1	29
259	The In Vivo Potential-Regulated Protective Protein of Nitrogenase in <i>Azotobacter vinelandii</i> Supports Aerobic Bioelectrochemical Dinitrogen Reduction In Vitro. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9044-9052	16.4	28
258	Strategies for Bioelectrochemical CO Reduction. <i>Chemistry - A European Journal</i> , 2019 , 25, 14258-14266	4.8	28
257	Enzymatic Bioelectrosynthetic Ammonia Production: Recent Electrochemistry of Nitrogenase, Nitrate Reductase, and Nitrite Reductase. <i>ChemPlusChem</i> , 2017 , 82, 513-521	2.8	28
256	Characterization and evaluation of hydrophobically modified chitosan scaffolds: Towards design of enzyme immobilized flow-through electrodes. <i>Carbohydrate Polymers</i> , 2009 , 75, 428-435	10.3	28
255	High Performance Glucose/O ₂ Biofuel Cell: Effect of Utilizing Purified Laccase with Anthracene-Modified Multi-Walled Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, G166-G170	3.9	28

254	Comparison of electropolymerized thiazine dyes as an electrocatalyst in enzymatic biofuel cells and self powered sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1714-21	1.3	28
253	Calendar aging of silicon-containing batteries. <i>Nature Energy</i> , 2021 , 6, 866-872	62.3	28
252	Sustainable Hypersaline Microbial Fuel Cells: Inexpensive Recyclable Polymer Supports for Carbon Nanotube Conductive Paint Anodes. <i>ChemSusChem</i> , 2017 , 10, 2053-2058	8.3	27
251	Long-term arsenic monitoring with an <i>Enterobacter cloacae</i> microbial fuel cell. <i>Bioelectrochemistry</i> , 2015 , 106, 207-12	5.6	27
250	Investigating the mechanism of thylakoid direct electron transfer for photocurrent generation. <i>Electrochimica Acta</i> , 2014 , 126, 68-73	6.7	27
249	Enzymatic Biofuel Cell with a Flow-through Toray Paper Bioanode for Improved Fuel Utilization. <i>Journal of the Electrochemical Society</i> , 2013 , 160, H612-H619	3.9	27
248	Analytical techniques for characterizing enzymatic biofuel cells. <i>Analytical Chemistry</i> , 2009 , 81, 9538-45	7.8	27
247	Chemistry for a sustainable future. <i>Environmental Science & Technology</i> , 2007 , 41, 4840-6	10.3	27
246	Halide-regulated growth of electrocatalytic metal nanoparticles directly onto a carbon paper electrode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17154-17162	13	26
245	Mechanistic Studies into the Oxidative Addition of Co(I) Complexes: Combining Electroanalytical Techniques with Parameterization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18877-18889	16.4	26
244	Hybrid nanocatalysts containing enzymes and metallic nanoparticles for ethanol/O ₂ biofuel cell. <i>Journal of Power Sources</i> , 2014 , 259, 25-32	8.9	26
243	Improved Bioelectrocatalytic Oxidation of Sucrose in a Biofuel Cell with an Enzyme Cascade Assembled on a DNA Scaffold. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H930-H933	3.9	26
242	Glucose oxidase progressively lowers bilirubin oxidase bioelectrocatalytic cathode performance in single-compartment glucose/oxygen biological fuel cells. <i>Electrochimica Acta</i> , 2014 , 140, 59-64	6.7	26
241	Development of a Chitosan Scaffold Electrode for Fuel Cell Applications. <i>Electroanalysis</i> , 2010 , 22, 793-798	26	26
240	A Paper-based Mitochondrial Electrochemical Biosensor for Pesticide Detection. <i>Electroanalysis</i> , 2016 , 28, 854-859	3	26
239	Control of electron transfer in nitrogenase. <i>Current Opinion in Chemical Biology</i> , 2018 , 47, 54-59	9.7	26
238	Improved performance of a paper-based glucose fuel cell by capillary induced flow. <i>Electrochimica Acta</i> , 2018 , 282, 336-342	6.7	26
237	Bioelectrocatalytic Conversion from N to Chiral Amino Acids in a H ₂ /Keto Acid Enzymatic Fuel Cell. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4028-4036	16.4	25

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