Uwe SchrÃ¶der

List of Publications by Year
in descending order

161 papers	18,191 citations	18465 62 h-index	12258 133 g-index
174 all docs	174 docs citations	174 times ranked	11919 citing authors

#	Article	IF	Citations
1	Microbial Fuel Cells:Â Methodology and Technologyâ€. Environmental Science & Technology, 2006, 40, 5181-5192.	4.6	4,962
2	Anodic electron transfer mechanisms in microbial fuel cells and their energy efficiency. Physical Chemistry Chemical Physics, 2007, 9, 2619-2629.	1.3	781
3	Water-induced accelerated ion diffusion: voltammetric studies in 1-methyl-3-[2,6-(S)-dimethylocten-2-yl]imidazolium tetrafluoroborate, 1-butyl-3-methylimidazolium tetrafluoroborate and hexafluorophosphate ionic liquids. New Journal of Chemistry, 2000, 24, 1009-1015.	1.4	513
4	On the use of cyclic voltammetry for the study of anodic electron transfer in microbial fuel cells. Energy and Environmental Science, 2008, 1, 144.	15.6	482
5	Challenges and Constraints of Using Oxygen Cathodes in Microbial Fuel Cells. Environmental Science & Technology, 2006, 40, 5193-5199.	4.6	479
6	Application of pyrolysed iron(II) phthalocyanine and CoTMPP based oxygen reduction catalysts as cathode materials in microbial fuel cells. Electrochemistry Communications, 2005, 7, 1405-1410.	2.3	466
7	Microbial electrochemistry and technology: terminology and classification. Energy and Environmental Science, 2015, 8, 513-519.	15.6	397
8	The ins and outs of microorganismâ€"electrode electron transfer reactions. Nature Reviews Chemistry, 2017, 1, .	13.8	385
9	A Generation of Microbial Fuel Cells with Current Outputs Boosted by More Than One Order of Magnitude. Angewandte Chemie - International Edition, 2003, 42, 2880-2883.	7.2	341
10	From MFC to MXC: chemical and biological cathodes and their potential for microbial bioelectrochemical systems. Chemical Society Reviews, 2010, 39, 4433.	18.7	335
11	Does it have to be carbon? Metal anodes in microbial fuel cells and related bioelectrochemical systems. Energy and Environmental Science, 2015, 8, 2048-2055.	15.6	299
12	Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. Energy and Environmental Science, 2011, 4, 1417.	15.6	289
13	Subcritical Water as Reaction Environment: Fundamentals of Hydrothermal Biomass Transformation. ChemSusChem, 2011, 4, 566-579.	3.6	280
14	Exploiting complex carbohydrates for microbial electricity generation ? a bacterial fuel cell operating on starch. Electrochemistry Communications, 2004, 6, 955-958.	2.3	265
15	Electrochemistry for biofuel generation: production of furans by electrocatalytic hydrogenation of furfurals. Energy and Environmental Science, 2013, 6, 2925.	15.6	210
16	Improvement of the anodic bioelectrocatalytic activity of mixed culture biofilms by a simple consecutive electrochemical selection procedure. Biosensors and Bioelectronics, 2008, 24, 1006-1011.	5.3	206
17	Electroactive mixed culture derived biofilms in microbial bioelectrochemical systems: The role of pH on biofilm formation, performance and composition. Bioresource Technology, 2011, 102, 9683-9690.	4.8	203
18	Electrochemical Analysis of Solids. A Review. Collection of Czechoslovak Chemical Communications, 2002, 67, 163-208.	1.0	200

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19	Tungsten carbide as electrocatalyst for the hydrogen evolution reaction in pH neutral electrolyte solutions. Applied Catalysis B: Environmental, 2009, 89, 455-458.	10.8	189
20	Layered corrugated electrode macrostructures boost microbial bioelectrocatalysis. Energy and Environmental Science, 2012, 5, 9769.	15.6	187
21	Fluorinated polyanilines as superior materials for electrocatalytic anodes in bacterial fuel cells. Electrochemistry Communications, 2004, 6, 571-575.	2.3	171
22	The Suitability of Monopolar and Bipolar Ion Exchange Membranes as Separators for Biological Fuel Cells. Environmental Science & Technology, 2008, 42, 1740-1746.	4.6	170
23	Electroactive mixed culture biofilms in microbial bioelectrochemical systems: The role of temperature for biofilm formation and performance. Biosensors and Bioelectronics, 2010, 26, 803-808.	5.3	165
24	Cyclic voltammetric analysis of the electron transfer of Shewanella oneidensis MR-1 and nanofilament and cytochrome knock-out mutants. Bioelectrochemistry, 2011, 81, 74-80.	2.4	159
25	Interfacing Electrocatalysis and Biocatalysis with Tungsten Carbide: A High-Performance, Noble-Metal-Free Microbial Fuel Cell. Angewandte Chemie - International Edition, 2006, 45, 6658-6661.	7.2	155
26	Selectivity versus Mobility: Separation of Anode and Cathode in Microbial Bioelectrochemical Systems. ChemSusChem, 2009, 2, 921-926.	3.6	154
27	The study of electrochemically active microbial biofilms on different carbon-based anode materials in microbial fuel cells. Biosensors and Bioelectronics, 2010, 25, 2167-2171.	5.3	154
28	Effects of substrate and metabolite crossover on the cathodic oxygen reduction reaction in microbial fuel cells: Platinum vs. iron(II) phthalocyanine based electrodes. Electrochemistry Communications, 2009, 11, 2253-2256.	2.3	144
29	Modelling of solid state voltammetry of immobilized microcrystals assuming an initiation of the electrochemical reaction at a three-phase junction. Journal of Solid State Electrochemistry, 2000, 4, 314-324.	1.2	140
30	Comparative study of IVBâ€“VIB transition metal compound electrocatalysts for the hydrogen evolution reaction. Applied Catalysis B: Environmental, 2012, 126, 225-230.	10.8	138
31	Reactor concepts for bioelectrochemical syntheses and energy conversion. Trends in Biotechnology, 2014, 32, 645-655.	4.9	134
32	A Threeâ€Dimensionally Ordered Macroporous Carbon Derived From a Natural Resource as Anode for Microbial Bioelectrochemical Systems. ChemSusChem, 2012, 5, 1059-1063.	3.6	133
33	Ionic liquid modified electrodes. Unusual partitioning and diffusion effects of Fe(CN)64â^'/3â^' in droplet and thin layer deposits of 1-methyl-3-(2,6-(S)-dimethylocten-2-yl)-imidazolium tetrafluoroborate. Journal of Electroanalytical Chemistry, 2000, 493, 75-83.	1.9	126
34	Electron transfer and biofilm formation of Shewanella putrefaciens as function of anode potential. Bioelectrochemistry, 2013, 93, 23-29.	2.4	122
35	Strategies for optimizing the power output of microbial fuel cells: Transitioning from fundamental studies to practical implementation. Applied Energy, 2019, 233-234, 15-28.	5.1	122
36	Evaluation of catalytic properties of tungsten carbide for the anode of microbial fuel cells. Applied Catalysis B: Environmental, 2007, 74, 261-269.	10.8	121

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37	In Situ Spectroelectrochemical Investigation of Electrocatalytic Microbial Biofilms by Surfaceâ€Enhanced Resonance Raman Spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 2625-2627.	7.2	114
38	An improved microbial fuel cell with laccase as the oxygen reduction catalyst. Energy and Environmental Science, 2009, 2, 96-99.	15.6	109
39	Electrochemistry for biofuel generation: Electrochemical conversion of levulinic acid to octane. Energy and Environmental Science, 2012, 5, 5231-5235.	15.6	108
40	Utilizing the green alga Chlamydomonas reinhardtii for microbial electricity generation: a living solar cell. Applied Microbiology and Biotechnology, 2005, 68, 753-756.	1.7	107
41	In Situ Electrooxidation of Photobiological Hydrogen in a Photobioelectrochemical Fuel Cell Based on Rhodobacter sphaeroides. Environmental Science & Technology, 2005, 39, 6328-6333.	4.6	106
42	Binder-free carbon black/stainless steel mesh composite electrode for high-performance anode in microbial fuel cells. Journal of Power Sources, 2015, 284, 252-257.	4.0	102
43	Heat treated soil as convenient and versatile source of bacterial communities for microbial electricity generation. Electrochemistry Communications, 2006, 8, 869-873.	2.3	93
44	Toxicity Response of Electroactive Microbial Biofilmsâ€"A Decisive Feature for Potential Biosensor and Power Source Applications. ChemPhysChem, 2010, 11, 2834-2837.	1.0	91
45	Activated carbon nanofibers (ACNF) as cathode for single chamber microbial fuel cells (SCMFCs). Journal of Power Sources, 2013, 243, 499-507.	4.0	83
46	Electrospun carbon fiber mat with layered architecture for anode in microbial fuel cells. Electrochemistry Communications, 2011, 13, 1026-1029.	2.3	81
47	Gaining electricity from in situ oxidation of hydrogen produced by fermentative cellulose degradation. Letters in Applied Microbiology, 2005, 41, 286-290.	1.0	78
48	Title is missing!. Angewandte Chemie, 2003, 115, 2986-2989.	1.6	77
49	Evaluating the effects of scaling up on the performance of bioelectrochemical systems using a technical scale microbial electrolysis cell. Bioresource Technology, 2014, 163, 206-213.	4.8	77
50	Quantum dots encapsulated with amphiphilic alginate as bioprobe for fast screening anti-dengue virus agents. Biosensors and Bioelectronics, 2008, 24, 1012-1019.	5.3	76
51	Modeling the ion transfer and polarization of ion exchange membranes in bioelectrochemical systems. Bioelectrochemistry, 2009, 75, 136-141.	2.4	76
52	Revealing the electrochemically driven selection in natural community derived microbial biofilms using flow-cytometry. Energy and Environmental Science, 2011, 4, 1265.	15.6	74
53	Microwave-assisted hydrothermal degradation of fructose and glucose in subcritical water. Biomass and Bioenergy, 2012, 39, 389-398.	2.9	72
54	Discover the possibilities: microbial bioelectrochemical systems and the revival of a 100-yearâ€"old discovery. Journal of Solid State Electrochemistry, 2011, 15, 1481-1486.	1.2	71

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55	Electrochemistry for the generation of renewable chemicals: electrochemical conversion of levulinic acid. RSC Advances, 2015, 5, 26634-26643.	1.7	69
56	Electrochemistry of Immobilized Particles and Droplets. , 2015, , .		69
57	A Study on Electrofuels in Aviation. Energies, 2018, 11, 392.	1.6	69
58	Electrochemically Driven Ion Insertion Processes across Liquid|Liquid Boundaries:â€‰ Neutral versus Ionic Redox Liquids. Journal of Physical Chemistry B, 2001, 105, 1344-1350.	1.2	68
59	Voltammetry of Electroactive Oil Droplets:â€‰ Electrochemically-Induced Ion Insertion, Expulsion and Reaction Processes at Microdroplets of N,N,Nâ€˜,Nâ€˜-Tetraalkyl-para- phenylenediamines (TRPD, R = n-Butyl,) Tj ETQq1 1 0.784314 rgBT	1.2	67
60	Cytometric fingerprints: evaluation of new tools for analyzing microbial community dynamics. Frontiers in Microbiology, 2014, 5, 273.	1.5	67
61	Photomicrobial Solar and Fuel Cells. Electroanalysis, 2010, 22, 844-855.	1.5	65
62	Hydrothermal production of furfural from xylose and xylan as model compounds for hemicelluloses. RSC Advances, 2013, 3, 22253.	1.7	65
63	Direct electrosynthesis of sodium hydroxide and hydrochloric acid from brine streams. Nature Catalysis, 2019, 2, 106-113.	16.1	65
64	Effect of fiber diameter on the behavior of biofilm and anodic performance of fiber electrodes in microbial fuel cells. Bioresource Technology, 2011, 102, 10763-10766.	4.8	64
65	On-line controlled state of charge rebalancing in vanadium redox flow battery. Journal of Electroanalytical Chemistry, 2013, 703, 29-37.	1.9	64
66	Hydrothermal liquefaction of cellulose in subcritical waterâ€"the role of crystallinity on the cellulose reactivity. RSC Advances, 2013, 3, 11035.	1.7	63
67	A high-performance rotating graphite fiber brush air-cathode for microbial fuel cells. Applied Energy, 2018, 211, 1089-1094.	5.1	62
68	Voltammetry of Electroactive Oil Droplets. Part II: Comparison of Experimental and Simulation Data for Coupled Ion and Electron Insertion Processes and Evidence for Microscale Convection. Electroanalysis, 2000, 12, 1017-1025.	1.5	60
69	The Solid-State Electrochemistry of Metal Octacyanomolybdates, Octacyanotungstates, and Hexacyanoferrates Explained on the Basis of Dissolution and Reprecipitation Reactions, Lattice Structures, and Crystallinities. Inorganic Chemistry, 2000, 39, 1006-1015.	1.9	58
70	Probing Thermodynamic Aspects of Electrochemically Driven Ion-Transfer Processes Across Liquid|Liquid Interfaces:â€‰ Pure versus Diluted Redox Liquids. Journal of Physical Chemistry B, 2002, 106, 8697-8704.	1.2	57
71	Investigation of the electrocatalytic oxidation of formate and ethanol at platinum black under microbial fuel cell conditions. Journal of Solid State Electrochemistry, 2006, 10, 872-878.	1.2	56
72	Comparative study on the performance of pyrolyzed and plasma-treated iron(II) phthalocyanine-based catalysts for oxygen reduction in pH neutral electrolyte solutions. Journal of Power Sources, 2009, 193, 86-92.	4.0	54

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73	Electrocatalytic and corrosion behaviour of tungsten carbide in near-neutral pH electrolytes. Applied Catalysis B: Environmental, 2009, 87, 63-69.	10.8	54
74	Bacterial batteries. Nature Biotechnology, 2003, 21, 1151-1152.	9.4	53
75	Stainless steel mesh supported nitrogen-doped carbon nanofibers for binder-free cathode in microbial fuel cells. Biosensors and Bioelectronics, 2012, 34, 282-285.	5.3	53
76	On the removal of sulfonamides using microbial bioelectrochemical systems. Electrochemistry Communications, 2013, 26, 77-80.	2.3	53
77	Electrochemistry of Chromium(II) Hexacyanochromate(III) and Electrochemically Induced Isomerization of Solid Iron(II) Hexacyanochromate(III) Mechanically Immobilized on the Surface of a Graphite Electrode. Inorganic Chemistry, 1995, 34, 1711-1717.	1.9	51
78	Long-Term Behavior of Defined Mixed Cultures of Geobacter sulfurreducens and Shewanella oneidensis in Bioelectrochemical Systems. Frontiers in Bioengineering and Biotechnology, 2019, 7, 60.	2.0	51
79	Electrochemistry for Biofuel Generation: Transformation of Fatty Acids and Triglycerides to Dieselâ€Like Olefin/Ether Mixtures and Olefins. ChemSusChem, 2015, 8, 886-893.	3.6	46
80	From In Vitro to In Vivoâ€"Biofuel Cells Are Maturing. Angewandte Chemie - International Edition, 2012, 51, 7370-7372.	7.2	45
81	Life Electricâ€"Nature as a Blueprint for the Development of Microbial Electrochemical Technologies. Joule, 2017, 1, 244-252.	11.7	44
82	Examining sludge production in bioelectrochemical systems treating domestic wastewater. Bioresource Technology, 2015, 198, 913-917.	4.8	42
83	Electron transport through electrically conductive nanofilaments in Rhodopseudomonas palustris strain RP2. RSC Advances, 2015, 5, 100790-100798.	1.7	41
84	Development of a new Electrochemical Impedance Spectroscopy Approach for Monitoring the Solid Electrolyte Interphase Formation. Energy Technology, 2016, 4, 1509-1513.	1.8	40
85	Metalâ€"Polymer Hybrid Architectures as Novel Anode Platform for Microbial Electrochemical Technologies. ChemSusChem, 2017, 10, 253-257.	3.6	36
86	Large Multipurpose Exceptionally Conductive Polymer Sponges Obtained by Efficient Wetâ€Chemical Metallization. Advanced Functional Materials, 2015, 25, 6182-6188.	7.8	35
87	Tapping Renewables: A New Dawn for Organic Electrosynthesis in Aqueous Reaction Media. ChemElectroChem, 2019, 6, 4126-4133.	1.7	33
88	Finding the Optimal Regularization Parameter in Distribution of Relaxation Times Analysis. ChemElectroChem, 2019, 6, 6027-6037.	1.7	33
89	Unraveling the Interfacial Electron Transfer Dynamics of Electroactive Microbial Biofilms Using Surfaceâ€Enhanced Raman Spectroscopy. ChemSusChem, 2013, 6, 487-492.	3.6	32
90	The electrochemical response of radiation defects of non-conducting materials An electrochemical access to age determinations. Journal of Electroanalytical Chemistry, 1995, 385, 139-142.	1.9	31

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91	Integrated Valorization of Desalination Brine through NaOH Recovery: Opportunities and Challenges. Angewandte Chemie - International Edition, 2019, 58, 6502-6511.	7.2	30
92	From Wastewater to Hydrogen: Biorefineries Based on Microbial Fuelâ€Cell Technology. ChemSusChem, 2008, 1, 281-282.	3.6	28
93	Parylene C-coated PDMS-based microfluidic microbial fuel cells with low oxygen permeability. Journal of Power Sources, 2018, 398, 209-214.	4.0	28
94	Corrosion prevention of graphite collector in vanadium redox flow battery. Journal of Electroanalytical Chemistry, 2013, 709, 93-98.	1.9	26
95	From the test-tube to the test-engine: assessing the suitability of prospective liquid biofuel compounds. RSC Advances, 2013, 3, 9594.	1.7	26
96	Microfabricated, continuous-flow, microbial three-electrode cell for potential toxicity detection. Biochip Journal, 2015, 9, 27-34.	2.5	26
97	Gold-modified indium tin oxide as a transparent window in optoelectronic diagnostics of electrochemically active biofilms. Biosensors and Bioelectronics, 2017, 94, 74-80.	5.3	24
98	Hydroxyacetone: A Glycerolâ€Based Platform for Electrocatalytic Hydrogenation and Hydrodeoxygenation Processes. ChemSusChem, 2017, 10, 3105-3110.	3.6	23
99	On the Interpretation of Impedance Spectra of Largeâ€Format Lithiumâ€Ion Batteries and Its Application in Aging Studies. Energy Technology, 2020, 8, 1900279.	1.8	23
100	Copper-bottomed: electrochemically active bacteria exploit conductive sulphide networks for enhanced electrogeneity. Energy and Environmental Science, 2020, 13, 3102-3109.	15.6	23
101	Electrodeâ€Resolved Monitoring of the Ageing of Largeâ€Scale Lithiumâ€Ion Cells by using Electrochemical Impedance Spectroscopy. ChemElectroChem, 2017, 4, 2921-2927.	1.7	22
102	Measurement, simulation and in situ regeneration of energy efficiency in vanadium redox flow battery. Journal of Electroanalytical Chemistry, 2014, 728, 72-80.	1.9	21
103	Direct Access to the Optimal Regularization Parameter in Distribution of Relaxation Times Analysis. ChemElectroChem, 2020, 7, 3445-3458.	1.7	21
104	eLatrine: Lessons Learned from the Development of a Low-Tech MFC Based on Cardboard Electrodes for the Treatment of Human Feces. Journal of the Electrochemical Society, 2017, 164, H3065-H3072.	1.3	20
105	Successive Conditioning in Complex Artificial Wastewater Increases the Performance of Electrochemically Active Biofilms Treating Real Wastewater. ChemElectroChem, 2017, 4, 3081-3090.	1.7	20
106	Capturing the Current-Overpotential Nonlinearity of Lithium-Ion Batteries by Nonlinear Electrochemical Impedance Spectroscopy (NLEIS) in Charge and Discharge Direction. Frontiers in Energy Research, 2019, 7, .	1.2	20
107	The Limits of Threeâ€Dimensionality: Systematic Assessment of Effective Anode Macrostructure Dimensions for Mixedâ€Culture Electroactive Biofilms. ChemSusChem, 2020, 13, 582-589.	3.6	20
108	Self-assembled cauliflower-like pyrite-S, N co-doped graphene quantum dots as free-standing anode with high conductivity and biocompatibility for bioelectricity production. Fuel, 2021, 286, 119291.	3.4	20

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109	Customizable design strategies for high-performance bioanodes in bioelectrochemical systems. IScience, 2021, 24, 102163.	1.9	20
110	Direct and Indirect Electrooxidation of Glycerol to Valueâ€Added Products. ChemSusChem, 2021, 14, 5216-5225.	3.6	20
111	Editorial: Microbial Fuel Cells and Microbial Electrochemistry: Into the Next Century!. ChemSusChem, 2012, 5, 959-959.	3.6	19
112	A basic introduction into microbial fuel cells and microbial electrocatalysis. ChemTexts, 2018, 4, 1.	1.0	18
113	Optimal electrolyte flow distribution in hydrodynamic circuit of vanadium redox flow battery. Journal of Electroanalytical Chemistry, 2015, 736, 117-126.	1.9	17
114	Scratching the Surfaceâ€"How Decisive Are Microscopic Surface Structures on Growth and Performance of Electrochemically Active Bacteria?. Frontiers in Energy Research, 2019, 7, .	1.2	17
115	The Wittig Reaction with Pyridylphosphoranes. European Journal of Organic Chemistry, 2000, 2000, 2601-2604.	1.2	16
116	Bidirectional electroactive microbial biofilms and the role of biogenic sulfur in charge storage and release. IScience, 2021, 24, 102822.	1.9	16
117	Towards selective electrochemical conversion of glycerol to 1,3-propanediol. RSC Advances, 2018, 8, 10818-10827.	1.7	15
118	Enhanced Activity of Nonâ€Noble Metal Electrocatalysts for the Oxygen Reduction Reaction Using Low Temperature Plasma Treatment. Plasma Processes and Polymers, 2011, 8, 914-922.	1.6	14
119	Cultivating Electrochemically Active Biofilms at Continuously Changing Electrode Potentials. ChemElectroChem, 2019, 6, 2238-2247.	1.7	14
120	In Situ Autofluorescence Spectroelectrochemistry for the Study of Microbial Extracellular Electron Transfer. ChemElectroChem, 2017, 4, 2515-2519.	1.7	13
121	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Crossâ€Laboratory Study. ChemSusChem, 2021, 14, 2313-2330.	3.6	13
122	Combining hydrogen evolution and corrosion data - A case study on the economic viability of selected metal cathodes in microbial electrolysis cells. Journal of Power Sources, 2017, 356, 473-483.	4.0	12
123	Electrochemistry for the Generation of Renewable Chemicals: Oneâ€Pot Electrochemical Deoxygenation of Xylose to Î´â€Valerolactone. ChemSusChem, 2017, 10, 2015-2022.	3.6	12
124	Design and Evaluation of a Boron Dipyrrin Electrophore for Redox Flow Batteries. ChemSusChem, 2017, 10, 4215-4222.	3.6	11
125	Use of torsional resonators to monitor electroactive biofilms. Biosensors and Bioelectronics, 2018, 110, 225-232.	5.3	10
126	Microbial Electrolysis for Biohydrogen Production. , 2019, , 871-898.		10

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127	What is the Role of Individual Species within Bidirectional Electroactive Microbial Biofilms: A Case Study on <i>Desulfarculus baarsii</i> and <i>Desulfurivibrio alkaliphilus</i>. ChemElectroChem, 2022, 9, .	1.7	10
128	Metabolic Efficiency of Geobacter sulfurreducens Growing on Anodes with Different Redox Potentials. Current Microbiology, 2014, 68, 763-768.	1.0	8
129	Biological Fuel Cells: Cardinal Advances and Critical Challenges. ChemElectroChem, 2014, 1, 1702-1704.	1.7	8
130	Concentration Pulse Method for the Investigation of Transformation Pathways in a Glycerol-Fed Bioelectrochemical System. Frontiers in Energy Research, 2018, 6, .	1.2	8
131	Aerobic microbial electrochemical technology based on the coexistence and interactions of aerobes and exoelectrogens for synergistic pollutant removal from wastewater. Environmental Science: Water Research and Technology, 2019, 5, 60-69.	1.2	8
132	Possibilities and Constraints of the Electrochemical Treatment of Thiophene on Low and High Oxidation Power Electrodes. Energy & Fuels, 2019, 33, 1901-1909.	2.5	8
133	Investigating Community Dynamics and Performance During Microbial Electrochemical Degradation of Whey. ChemElectroChem, 2020, 7, 989-997.	1.7	8
134	Substrate Crossover Effect and Performance Regeneration of the Biofouled Rotating Air-Cathode in Microbial Fuel Cell. Frontiers in Energy Research, 2018, 6, .	1.2	7
135	Impedance Spectroscopic Investigation of the Impact of Erroneous Cell Assembly on the Aging of Lithiumâ€ion Batteries. Energy Technology, 2020, 8, 1900288.	1.8	7
136	Correlating theoretical boundary layer thickness to the power output of a microbial fuel cell with a complex anode geometry operated at varying flow rates. Journal of Power Sources, 2020, 470, 228428.	4.0	7
137	Development and characterization of a fiber optical fluorescence sensor for the online monitoring of biofilms and their microenvironment. Engineering in Life Sciences, 2020, 20, 252-264.	2.0	7
138	Developing Cheap and Massâ€Producible Graphiteâ€Filled Paper as an Anode Material for Microbial Electrochemical Technologies. ChemElectroChem, 2020, 7, 1851-1859.	1.7	7
139	Application of Localized Electrochemical Impedance Spectroscopy to Lithiumâ€ion Cathodes and in situ Monitoring of the Charging Process. Energy Technology, 2016, 4, 1514-1519.	1.8	6
140	Evaluation of the membrane efficiency of both Nafion and sulfonated poly (ether ether ketone) using electrochemical membrane reactor toward desulfurization of a model diesel fuel. Chemical Engineering Research and Design, 2020, 153, 517-527.	2.7	6
141	Liquidâ€“Liquid Equilibrium Data and Continuous Process Concept for the Electrosynthesis of Valeric Acid from Levulinic Acid. Frontiers in Energy Research, 2020, 8, .	1.2	6
142	â€œUnexpectedâ€•behaviour of the internal resistance of a vanadium redox flow battery. Journal of Power Sources, 2016, 306, 394-401.	4.0	5
143	Qualityâ€Indicatorâ€Based Preprocessing for the Distribution of Relaxation Times Method. ChemElectroChem, 2021, 8, 1167-1182.	1.7	5
144	Selfâ€Assembling Enzyme Networksâ€”A New Path towards Multistep Bioelectrocatalytic Systems. Angewandte Chemie - International Edition, 2013, 52, 3568-3569.	7.2	4

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145	An Anionic Non-Aqueous Single Substance Redox Flow Battery Based on Triiodide. International Journal of Electrochemical Science, 2016, 11, 9254-9264.	0.5	4
146	Optimal Geometric Parameters for 3D Electrodes in Bioelectrochemical Systems: A Systematic Approach. ChemSusChem, 2020, 13, 5119-5129.	3.6	4
147	Studying the Impact of Wall Shear Stress on the Development and Performance of Electrochemically Active Biofilms. ChemPlusChem, 2020, 85, 2298-2307.	1.3	4
148	Comments on â€œElectricity generation by Enterobacter cloacae SU-1 in mediator less microbial fuel cellâ€•by Samrot etÂal., Int.ÂJ. Hydrogen Energy, 35 (15) 2010, 7723â€“7729. International Journal of Hydrogen Energy, 2011, 36, 9396-9397.	3.8	3
149	Wie Mikroorganismen und Elektroden interagieren. Nachrichten Aus Der Chemie, 2016, 64, 732-737.	0.0	3
150	GC/MS-screening analyses of valuable products in the aqueous phase from microwave-assisted hydrothermal processing of Lemna minor. Sustainable Chemistry and Pharmacy, 2019, 13, 100165.	1.6	3
151	Electrochemistry: connector of sciences. Journal of Solid State Electrochemistry, 2020, 24, 2179-2180.	1.2	3
152	Keeping intermediates on the track: towards tailored metabolons for bioelectrocatalysis. Biofuels, 2010, 1, 677-680.	1.4	2
153	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Crossâ€Laboratory Study. ChemSusChem, 2021, 14, 2267.	3.6	2
154	Coupled mechanical and electrochemical characterization method for battery materials. , 2014, , .		1
155	Immobilized Droplets. , 2015, , 225-295.		1
156	Hyphenated Techniques. , 2015, , 33-80.		1
157	Vertical 3D GaN Nanoarchitectures towards an Integrated Optoelectronic Biosensing Platform in Microbial Fuel Cells. Proceedings (mdpi), 2017, 1, .	0.2	1
158	Sulfide Detection by Gold-Amalgam Microelectrodes in Artificial Wastewater. Chemosensors, 2020, 8, 49.	1.8	1
159	Immobilized Particles. , 2015, , 81-224.		0
160	Jenseits der Batterie - Elektrochemie in nachhaltiger Chemie und Biotechnologie. Chemie-Ingenieur-Technik, 2016, 88, 1253-1253.	0.4	0
161	Editorial: International Society for Microbial Electrochemistry and Technology: Outputs From the 2018 Regional Meetings. Frontiers in Energy Research, 2020, 8, .	1.2	0