Uwe Schrder

List of Publications by Citations

162 papers	15,194 citations	57 h-index	122 g-index
174 ext. papers	16,622 ext. citations	9.4 avg, IF	6.8 L-index

#	Paper	IF	Citations
162	Microbial fuel cells: methodology and technology. *Environmental Science & Technology*, **2006**, 40, 5181-92	10.3	4214
161	Anodic electron transfer mechanisms in microbial fuel cells and their energy efficiency. *Physical Chemistry Chemical Physics*, **2007**, 9, 2619-29	3.6	678
160	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	3.6	474
159	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	5.1	432
158	Challenges and constraints of using oxygen cathodes in microbial fuel cells. *Environmental Science & Technology*, **2006**, 40, 5193-9	10.3	424
157	On the use of cyclic voltammetry for the study of anodic electron transfer in microbial fuel cells. *Energy and Environmental Science*, **2008**, 1, 144	35.4	388
156	Microbial electrochemistry and technology: terminology and classification. *Energy and Environmental Science*, **2015**, 8, 513-519	35.4	306
155	A generation of microbial fuel cells with current outputs boosted by more than one order of magnitude. *Angewandte Chemie - International Edition*, **2003**, 42, 2880-3	16.4	297
154	From MFC to MXC: chemical and biological cathodes and their potential for microbial bioelectrochemical systems. *Chemical Society Reviews*, **2010**, 39, 4433-48	58.5	286
153	The ins and outs of microorganism–electrode electron transfer reactions. *Nature Reviews Chemistry* , **2017**, 1,	34.6	276
152	Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. *Energy and Environmental Science*, **2011**, 4, 1417	35.4	268
151	Exploiting complex carbohydrates for microbial electricity generation – a bacterial fuel cell operating on starch. *Electrochemistry Communications*, **2004**, 6, 955-958	5.1	229
150	Does it have to be carbon? Metal anodes in microbial fuel cells and related bioelectrochemical systems. *Energy and Environmental Science*, **2015**, 8, 2048-2055	35.4	226
149	Subcritical water as reaction environment: fundamentals of hydrothermal biomass transformation. *ChemSusChem*, **2011**, 4, 566-79	8.3	223
148	Improvement of the anodic bioelectrocatalytic activity of mixed culture biofilms by a simple consecutive electrochemical selection procedure. *Biosensors and Bioelectronics*, **2008**, 24, 1006-1011	11.8	179
147	Electrochemical Analysis of Solids. A Review. *Collection of Czechoslovak Chemical Communications*, **2002**, 67, 163-208		175
146	Tungsten carbide as electrocatalyst for the hydrogen evolution reaction in pH neutral electrolyte solutions. *Applied Catalysis B: Environmental*, **2009**, 89, 455-458	21.8	169

145	Electroactive mixed culture derived biofilms in microbial bioelectrochemical systems: the role of pH on biofilm formation, performance and composition. *Bioresource Technology*, **2011**, 102, 9683-90	11	163
144	Layered corrugated electrode macrostructures boost microbial bioelectrocatalysis. *Energy and Environmental Science*, **2012**, 5, 9769	35.4	158
143	The suitability of monopolar and bipolar ion exchange membranes as separators for biological fuel cells. *Environmental Science & Technology*, **2008**, 42, 1740-6	10.3	158
142	Fluorinated polyanilines as superior materials for electrocatalytic anodes in bacterial fuel cells. *Electrochemistry Communications*, **2004**, 6, 571-575	5.1	153
141	Electroactive mixed culture biofilms in microbial bioelectrochemical systems: the role of temperature for biofilm formation and performance. *Biosensors and Bioelectronics*, **2010**, 26, 803-8	11.8	147
140	Interfacing electrocatalysis and biocatalysis with tungsten carbide: a high-performance, noble-metal-free microbial fuel cell. *Angewandte Chemie - International Edition*, **2006**, 45, 6658-61	16.4	141
139	Electrochemistry for biofuel generation: production of furans by electrocatalytic hydrogenation of furfurals. *Energy and Environmental Science*, **2013**, 6, 2925	35.4	136
138	The study of electrochemically active microbial biofilms on different carbon-based anode materials in microbial fuel cells. *Biosensors and Bioelectronics*, **2010**, 25, 2167-71	11.8	136
137	Selectivity versus mobility: separation of anode and cathode in microbial bioelectrochemical systems. *ChemSusChem*, **2009**, 2, 921-6	8.3	135
136	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	5.1	135
135	Cyclic voltammetric analysis of the electron transfer of Shewanella oneidensis MR-1 and nanofilament and cytochrome knock-out mutants. *Bioelectrochemistry*, **2011**, 81, 74-80	5.6	134
134	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	2.6	126
133	Comparative study of IVB–VIB transition metal compound electrocatalysts for the hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2012**, 126, 225-230	21.8	116
132	Evaluation of catalytic properties of tungsten carbide for the anode of microbial fuel cells. *Applied Catalysis B: Environmental*, **2007**, 74, 261-269	21.8	115
131	A three-dimensionally ordered macroporous carbon derived from a natural resource as anode for microbial bioelectrochemical systems. *ChemSusChem*, **2012**, 5, 1059-63	8.3	114
130	Ionic liquid modified electrodes. Unusual partitioning and diffusion effects of $Fe(CN)_6^{4-/3-}$ 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	4.1	114
129	Reactor concepts for bioelectrochemical syntheses and energy conversion. *Trends in Biotechnology*, **2014**, 32, 645-55	15.1	113
128	Electron transfer and biofilm formation of Shewanella putrefaciens as function of anode potential. *Bioelectrochemistry*, **2013**, 93, 23-9	5.6	106

127	In situ spectroelectrochemical investigation of electrocatalytic microbial biofilms by surface-enhanced resonance Raman spectroscopy. *Angewandte Chemie - International Edition*, **2011**, 50, 2625-7	16.4	101
126	An improved microbial fuel cell with laccase as the oxygen reduction catalyst. *Energy and Environmental Science*, **2009**, 2, 96-99	35.4	99
125	In situ electrooxidation of photobiological hydrogen in a photobioelectrochemical fuel cell based on Rhodobacter sphaeroides. *Environmental Science & Technology*, **2005**, 39, 6328-33	10.3	97
124	Utilizing the green alga Chlamydomonas reinhardtii for microbial electricity generation: a living solar cell. *Applied Microbiology and Biotechnology*, **2005**, 68, 753-6	5.7	97
123	Electrochemistry for biofuel generation: Electrochemical conversion of levulinic acid to octane. *Energy and Environmental Science*, **2012**, 5, 5231-5235	35.4	83
122	Heat treated soil as convenient and versatile source of bacterial communities for microbial electricity generation. *Electrochemistry Communications*, **2006**, 8, 869-873	5.1	82
121	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	8.9	80
120	Toxicity response of electroactive microbial biofilms--a decisive feature for potential biosensor and power source applications. *ChemPhysChem*, **2010**, 11, 2834-7	3.2	80
119	Strategies for optimizing the power output of microbial fuel cells: Transitioning from fundamental studies to practical implementation. *Applied Energy*, **2019**, 233-234, 15-28	10.7	78
118	Improvement of the anodic bioelectrocatalytic activity of mixed culture biofilms by a simple consecutive electrochemical selection procedure. *Biosensors and Bioelectronics*, **2008**, 24, 1012-7	11.8	74
117	Activated carbon nanofibers (ACNF) as cathode for single chamber microbial fuel cells (SCMFCs). *Journal of Power Sources*, **2013**, 243, 499-507	8.9	73
116	A Generation of Microbial Fuel Cells with Current Outputs Boosted by More Than One Order of Magnitude. *Angewandte Chemie*, **2003**, 115, 2986-2989	3.6	72
115	Gaining electricity from in situ oxidation of hydrogen produced by fermentative cellulose degradation. *Letters in Applied Microbiology*, **2005**, 41, 286-90	2.9	72
114	Electrospun carbon fiber mat with layered architecture for anode in microbial fuel cells. *Electrochemistry Communications*, **2011**, 13, 1026-1029	5.1	69
113	Modeling the ion transfer and polarization of ion exchange membranes in bioelectrochemical systems. *Bioelectrochemistry*, **2009**, 75, 136-41	5.6	68
112	Revealing the electrochemically driven selection in natural community derived microbial biofilms using flow-cytometry. *Energy and Environmental Science*, **2011**, 4, 1265	35.4	67
111	Evaluating the effects of scaling up on the performance of bioelectrochemical systems using a technical scale microbial electrolysis cell. *Bioresource Technology*, **2014**, 163, 206-13	11	64
110	Electrochemically Driven Ion Insertion Processes across Liquid|Liquid Boundaries: Neutral versus Ionic Redox Liquids. *Journal of Physical Chemistry B*, **2001**, 105, 1344-1350	3.4	61

109	Microwave-assisted hydrothermal degradation of fructose and glucose in subcritical water. *Biomass and Bioenergy*, **2012**, 39, 389-398	5.3	60
108	Discover the possibilities: microbial bioelectrochemical systems and the revival of a 100-year-old discovery. *Journal of Solid State Electrochemistry*, **2011**, 15, 1481-1486	2.6	58
107	Photomicrobial Solar and Fuel Cells. *Electroanalysis*, **2010**, 22, 844-855	3	58
106	Voltammetry of Electroactive Oil Droplets: Electrochemically-Induced Ion Insertion, Expulsion and Reaction Processes at Microdroplets of N,N,N′,N′-Tetraalkyl-para- phenylenediamines (TRPD, R = n-Butyl, n-Hexyl, n-Heptyl and n-Nonyl). *Journal of Physical Chemistry B*, **2002**, 106, 9619-9632	3.4	58
105	Effect of fiber diameter on the behavior of biofilm and anodic performance of fiber electrodes in microbial fuel cells. *Bioresource Technology*, **2011**, 102, 10763-6	11	57
104	Hydrothermal liquefaction of cellulose in subcritical water: the role of crystallinity on the cellulose reactivity. *RSC Advances*, **2013**, 3, 11035	3.7	56
103	Hydrothermal production of furfural from xylose and xylan as model compounds for hemicelluloses. *RSC Advances*, **2013**, 3, 22253	3.7	54
102	Cytometric fingerprints: evaluation of new tools for analyzing microbial community dynamics. *Frontiers in Microbiology*, **2014**, 5, 273	5.7	54
101	Stainless steel mesh supported nitrogen-doped carbon nanofibers for binder-free cathode in microbial fuel cells. *Biosensors and Bioelectronics*, **2012**, 34, 282-5	11.8	51
100	Probing Thermodynamic Aspects of Electrochemically Driven Ion-Transfer Processes Across Liquid|Liquid Interfaces: Pure versus Diluted Redox Liquids. *Journal of Physical Chemistry B*, **2002**, 106, 8697-8704	3.4	51
99	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, 1006-15	5.1	51
98	A high-performance rotating graphite fiber brush air-cathode for microbial fuel cells. *Applied Energy* , **2018**, 211, 1089-1094	10.7	50
97	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	3	50
96	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	8.9	49
95	Electrocatalytic and corrosion behaviour of tungsten carbide in near-neutral pH electrolytes. *Applied Catalysis B: Environmental*, **2009**, 87, 63-69	21.8	47
94	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	2.6	47
93	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	5.1	46
92	On the removal of sulfonamides using microbial bioelectrochemical systems. *Electrochemistry Communications*, **2013**, 26, 77-80	5.1	45

91	Electrochemistry for the generation of renewable chemicals: electrochemical conversion of levulinic acid. *RSC Advances*, **2015**, 5, 26634-26643	3.7	44
90	On-line controlled state of charge rebalancing in vanadium redox flow battery. *Journal of Electroanalytical Chemistry*, **2013**, 703, 29-37	4.1	42
89	From in vitro to in vivo--biofuel cells are maturing. *Angewandte Chemie - International Edition*, **2012**, 51, 7370-2	16.4	39
88	A Study on Electrofuels in Aviation. *Energies*, **2018**, 11, 392	3.1	38
87	Electrochemistry for biofuel generation: transformation of fatty acids and triglycerides to diesel-like olefin/ether mixtures and olefins. *ChemSusChem*, **2015**, 8, 886-93	8.3	38
86	Direct electrosynthesis of sodium hydroxide and hydrochloric acid from brine streams. *Nature Catalysis*, **2019**, 2, 106-113	36.5	36
85	Electrochemistry of Immobilized Particles and Droplets **2015**,		35
84	Life Electric Nature as a Blueprint for the Development of Microbial Electrochemical Technologies. *Joule*, **2017**, 1, 244-252	27.8	34
83	Electron transport through electrically conductive nanofilaments in Rhodopseudomonas palustris strain RP2. *RSC Advances*, **2015**, 5, 100790-100798	3.7	34
82	Long-Term Behavior of Defined Mixed Cultures of and in Bioelectrochemical Systems. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 60	5.8	30
81	Unraveling the interfacial electron transfer dynamics of electroactive microbial biofilms using surface-enhanced Raman spectroscopy. *ChemSusChem*, **2013**, 6, 487-92	8.3	30
80	Development of a new Electrochemical Impedance Spectroscopy Approach for Monitoring the Solid Electrolyte Interphase Formation. *Energy Technology*, **2016**, 4, 1509-1513	3.5	29
79	Large Multipurpose Exceptionally Conductive Polymer Sponges Obtained by Efficient Wet-Chemical Metallization. *Advanced Functional Materials*, **2015**, 25, 6182-6188	15.6	26
78	From wastewater to hydrogen: biorefineries based on microbial fuel-cell technology. *ChemSusChem* , **2008**, 1, 281-2	8.3	26
77	Corrosion prevention of graphite collector in vanadium redox flow battery. *Journal of Electroanalytical Chemistry*, **2013**, 709, 93-98	4.1	25
76	Metal-Polymer Hybrid Architectures as Novel Anode Platform for Microbial Electrochemical Technologies. *ChemSusChem*, **2017**, 10, 253-257	8.3	24
75	The electrochemical response of radiation defects of non-conducting materials An electrochemical access to age determinations. *Journal of Electroanalytical Chemistry*, **1995**, 385, 139-142	4.1	24
74	Examining sludge production in bioelectrochemical systems treating domestic wastewater. *Bioresource Technology*, **2015**, 198, 913-7	11	23

73	From the test-tube to the test-engine: assessing the suitability of prospective liquid biofuel compounds. *RSC Advances*, **2013**, 3, 9594	3.7	23
72	Interfacing Electrocatalysis and Biocatalysis with Tungsten Carbide: A High-Performance, Noble-Metal-Free Microbial Fuel Cell. *Angewandte Chemie*, **2006**, 118, 6810-6813	3.6	23
71	Microfabricated, continuous-flow, microbial three-electrode cell for potential toxicity detection. *Biochip Journal*, **2015**, 9, 27-34	4	22
70	Gold-modified indium tin oxide as a transparent window in optoelectronic diagnostics of electrochemically active biofilms. *Biosensors and Bioelectronics*, **2017**, 94, 74-80	11.8	20
69	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	3.9	17
68	Parylene C-coated PDMS-based microfluidic microbial fuel cells with low oxygen permeability. *Journal of Power Sources*, **2018**, 398, 209-214	8.9	17
67	Hydroxyacetone: A Glycerol-Based Platform for Electrocatalytic Hydrogenation and Hydrodeoxygenation Processes. *ChemSusChem*, **2017**, 10, 3105-3110	8.3	16
66	Optimal electrolyte flow distribution in hydrodynamic circuit of vanadium redox flow battery. *Journal of Electroanalytical Chemistry*, **2015**, 736, 117-126	4.1	16
65	Measurement, simulation and in situ regeneration of energy efficiency in vanadium redox flow battery. *Journal of Electroanalytical Chemistry*, **2014**, 728, 72-80	4.1	16
64	Electrode-Resolved Monitoring of the Ageing of Large-Scale Lithium-Ion Cells by using Electrochemical Impedance Spectroscopy. *ChemElectroChem*, **2017**, 4, 2921-2927	4.3	16
63	Successive Conditioning in Complex Artificial Wastewater Increases the Performance of Electrochemically Active Biofilms Treating Real Wastewater. *ChemElectroChem*, **2017**, 4, 3081-3090	4.3	15
62	The Wittig Reaction with Pyridylphosphoranes. *European Journal of Organic Chemistry*, **2000**, 2000, 2601-2604	3.1	15
61	Finding the Optimal Regularization Parameter in Distribution of Relaxation Times Analysis. *ChemElectroChem*, **2019**, 6, 6027-6037	4.3	15
60	Tapping Renewables: A New Dawn for Organic Electrosynthesis in Aqueous Reaction Media. *ChemElectroChem*, **2019**, 6, 4126-4133	4.3	14
59	Spektroelektrochemische In-situ-Untersuchung von elektrokatalytischen mikrobiellen Biofilmen mit oberflächenverstärkter Resonanz-Raman-Spektroskopie. *Angewandte Chemie*, **2011**, 123, 2673-2675	3.6	14
58	The Limits of Three-Dimensionality: Systematic Assessment of Effective Anode Macrostructure Dimensions for Mixed-Culture Electroactive Biofilms. *ChemSusChem*, **2020**, 13, 582-589	8.3	13
57	Scratching the Surface: How Decisive Are Microscopic Surface Structures on Growth and Performance of Electrochemically Active Bacteria?. *Frontiers in Energy Research*, **2019**, 7,	3.8	12
56	Enhanced Activity of Non-Noble Metal Electrocatalysts for the Oxygen Reduction Reaction Using Low Temperature Plasma Treatment. *Plasma Processes and Polymers*, **2011**, 8, 914-922	3.4	12

55	Copper-bottomed: electrochemically active bacteria exploit conductive sulphide networks for enhanced electrogeneity. *Energy and Environmental Science*, **2020**, 13, 3102-3109	35.4	12
54	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	7.1	11
53	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	8.9	10
52	Integrated Valorization of Desalination Brine through NaOH Recovery: Opportunities and Challenges. *Angewandte Chemie - International Edition*, **2019**, 58, 6502-6511	16.4	10
51	In Situ Autofluorescence Spectroelectrochemistry for the Study of Microbial Extracellular Electron Transfer. *ChemElectroChem*, **2017**, 4, 2515-2519	4.3	10
50	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,	3.8	10
49	Cultivating Electrochemically Active Biofilms at Continuously Changing Electrode Potentials. *ChemElectroChem*, **2019**, 6, 2238-2247	4.3	9
48	Direct Access to the Optimal Regularization Parameter in Distribution of Relaxation Times Analysis. *ChemElectroChem*, **2020**, 7, 3445-3458	4.3	9
47	Towards selective electrochemical conversion of glycerol to 1,3-propanediol.. *RSC Advances*, **2018**, 8, 10818-10827	3.7	9
46	A basic introduction into microbial fuel cells and microbial electrocatalysis. *ChemTexts*, **2018**, 4, 1	2.2	9
45	Microbial Electrolysis for Biohydrogen Production: Technical Aspects and Scale-Up Experiences **2019**, 871-898		8
44	Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to Valerolactone. *ChemSusChem*, **2017**, 10, 2015-2022	8.3	7
43	Possibilities and Constraints of the Electrochemical Treatment of Thiophene on Low and High Oxidation Power Electrodes. *Energy & Fuels*, **2019**, 33, 1901-1909	4.1	7
42	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	4.2	7
41	Metabolic efficiency of Geobacter sulfurreducens growing on anodes with different redox potentials. *Current Microbiology*, **2014**, 68, 763-8	2.4	7
40	Design and Evaluation of a Boron Dipyrrin Electrophore for Redox Flow Batteries. *ChemSusChem*, **2017**, 10, 4215-4222	8.3	7
39	On the Interpretation of Impedance Spectra of Large-Format Lithium-Ion Batteries and Its Application in Aging Studies. *Energy Technology*, **2020**, 8, 1900279	3.5	7
38	Use of torsional resonators to monitor electroactive biofilms. *Biosensors and Bioelectronics*, **2018**, 110, 225-232	11.8	6

37	Customizable design strategies for high-performance bioanodes in bioelectrochemical systems. *IScience*, **2021**, 24, 102163	6.1	6
36	Direct and Indirect Electrooxidation of Glycerol to Value-Added Products. *ChemSusChem*, **2021**, 14, 5216-5225	8.3	6
35	Concentration Pulse Method for the Investigation of Transformation Pathways in a Glycerol-Fed Bioelectrochemical System. *Frontiers in Energy Research*, **2018**, 6,	3.8	6
34	Unexpected behaviour of the internal resistance of a vanadium redox flow battery. *Journal of Power Sources*, **2016**, 306, 394-401	8.9	5
33	Mikroben unter Strom. *Biologie in Unserer Zeit*, **2013**, 43, 96-103	0.1	5
32	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	5.5	5
31	Substrate Crossover Effect and Performance Regeneration of the Biofouled Rotating Air-Cathode in Microbial Fuel Cell. *Frontiers in Energy Research*, **2018**, 6,	3.8	5
30	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	3.4	4
29	Self-assembling enzyme networks--a new path towards multistep bioelectrocatalytic systems. *Angewandte Chemie - International Edition*, **2013**, 52, 3568-9	16.4	4
28	Impedance Spectroscopic Investigation of the Impact of Erroneous Cell Assembly on the Aging of Lithium-Ion Batteries. *Energy Technology*, **2020**, 8, 1900288	3.5	4
27	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	3.9	3
26	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	8.9	3
25	Developing Cheap and Mass-Producible Graphite-Filled Paper as an Anode Material for Microbial Electrochemical Technologies. *ChemElectroChem*, **2020**, 7, 1851-1859	4.3	3
24	Investigating Community Dynamics and Performance During Microbial Electrochemical Degradation of Whey. *ChemElectroChem*, **2020**, 7, 989-997	4.3	3
23	Comments on Electricity generation by Enterobacter cloacae SU-1 in mediator less microbial fuel cell by Samrot et al., Int. J. Hydrogen Energy, 35 (15) 2010, 7723-7729. *International Journal of Hydrogen Energy*, **2011**, 36, 9396-9397	6.7	3
22	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Cross-Laboratory Study. *ChemSusChem*, **2021**, 14, 2313-2330	8.3	3
21	Wie Mikroorganismen und Elektroden interagieren. *Nachrichten Aus Der Chemie*, **2016**, 64, 732-737	0.1	2
20	Application of Localized Electrochemical Impedance Spectroscopy to Lithium-Ion Cathodes and in situ Monitoring of the Charging Process. *Energy Technology*, **2016**, 4, 1514-1519	3.5	2

19	Keeping intermediates on the track: towards tailored metabolons for bioelectrocatalysis. *Biofuels*, **2010**, 1, 677-680	2	2
18	Optimal Geometric Parameters for 3D Electrodes in Bioelectrochemical Systems: A Systematic Approach. *ChemSusChem*, **2020**, 13, 5119-5129	8.3	2
17	Studying the Impact of Wall Shear Stress on the Development and Performance of Electrochemically Active Biofilms. *ChemPlusChem*, **2020**, 85, 2298-2307	2.8	2
16	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Cross-Laboratory Study. *ChemSusChem*, **2021**, 14, 2267	8.3	2
15	An Anionic Non-Aqueous Single Substance Redox Flow Battery Based on Triiodide. *International Journal of Electrochemical Science*, **2016**, 9254-9264	2.2	2
14	Immobilized Droplets **2015**, 225-295		1
13	From Microbial Bioelectrocatalysis to Microbial Bioelectrochemical Systems. *Advances in Electrochemical Science and Engineering*, **2014**, 137-162		1
12	Sulfide Detection by Gold-Amalgam Microelectrodes in Artificial Wastewater. *Chemosensors*, **2020**, 8, 49	4	1
11	Liquid–Liquid Equilibrium Data and Continuous Process Concept for the Electrosynthesis of Valeric Acid from Levulinic Acid. *Frontiers in Energy Research*, **2020**, 8,	3.8	1
10	Quality-Indicator-Based Preprocessing for the Distribution of Relaxation Times Method. *ChemElectroChem*, **2021**, 8, 1167-1182	4.3	1
9	Bidirectional electroactive microbial biofilms and the role of biogenic sulfur in charge storage and release. *IScience*, **2021**, 24, 102822	6.1	1
8	Electrochemistry: connector of sciences. *Journal of Solid State Electrochemistry*, **2020**, 24, 2179-2180	2.6	0
7	Vertical 3D GaN Nanoarchitectures towards an Integrated Optoelectronic Biosensing Platform in Microbial Fuel Cells. *Proceedings (mdpi)*, **2017**, 1, 508	0.3	0
6	Jenseits der Batterie – Elektrochemie in nachhaltiger Chemie und Biotechnologie. *Chemie-Ingenieur-Technik*, **2016**, 88, 1253-1253	0.8	
5	Hyphenated Techniques **2015**, 33-80		
4	The Experiment **2015**, 19-32		
3	Electrodes with Immobilized Particles and Droplets: Three-Phase Electrodes **2015**, 11-17		
2	Earlier Developed Techniques **2015**, 1-10		

List of Publications

1 Immobilized Particles **2015**, 81-224