

# Ralf Cord-Ruwisch

## List of Publications by Year in Descending Order

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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.

54  
papers

3,279  
citations

24  
h-index

55  
g-index

55  
ext. papers

3,671  
ext. citations

6.9  
avg, IF

5.51  
L-index

#	Paper	IF	Citations
54	Sustained and enhanced anaerobic removal of COD and nitrogen in a zeolite amended glycogen accumulating organism dominated biofilm process. <i>Science of the Total Environment</i> , <b>2022</b> , 807, 150602	10.2	1
53	Novel microbial-electrochemical filter with a computer-feedback pH control strategy for upgrading biogas into biomethane. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125137	11	2
52	Energy efficient COD and N-removal from high-strength wastewater by a passively aerated GAO dominated biofilm. <i>Bioresource Technology</i> , <b>2019</b> , 283, 148-158	11	16
51	Anaerobic acidification of sugar-containing wastewater for biotechnological production of organic acids and ethanol. <i>Environmental Technology (United Kingdom)</i> , <b>2019</b> , 40, 3276-3286	2.6	2
50	Concurrent Lactic and Volatile Fatty Acid Analysis of Microbial Fermentation Samples by Gas Chromatography with Heat Pre-treatment. <i>Journal of Chromatographic Science</i> , <b>2018</b> , 56, 1-5	1.4	10
49	Ethanol and lactic acid production from sugar and starch wastes by anaerobic acidification. <i>Engineering in Life Sciences</i> , <b>2018</b> , 18, 635-642	3.4	15
48	In vitro rumen fermentation of soluble and non-soluble polymeric carbohydrates in relation to ruminal acidosis. <i>Annals of Microbiology</i> , <b>2018</b> , 68, 1-8	3.2	6
47	Proof of concept of wastewater treatment via passive aeration SND using a novel zeolite amended biofilm reactor. <i>Water Science and Technology</i> , <b>2018</b> , 78, 2204-2213	2.2	7
46	Direct oxygen uptake from air by novel glycogen accumulating organism dominated biofilm minimizes excess sludge production. <i>Science of the Total Environment</i> , <b>2018</b> , 640-641, 80-88	10.2	7
45	Rapid adaptation of activated sludge bacteria into a glycogen accumulating biofilm enabling anaerobic BOD uptake. <i>Bioresource Technology</i> , <b>2017</b> , 228, 1-8	11	15
44	Bioelectrochemical enhancement of anaerobic digestion: Comparing single- and two-chamber reactor configurations at thermophilic conditions. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1168-1175	11	27
43	Surface Percolation for Soil Improvement by Biocementation Utilizing In Situ Enriched Indigenous Aerobic and Anaerobic Ureolytic Soil Microorganisms. <i>Geomicrobiology Journal</i> , <b>2017</b> , 34, 546-556	2.5	27
42	New method for characterizing electron mediators in microbial systems using a thin-layer twin-working electrode cell. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 531-536	11.8	2
41	Automatic online buffer capacity (alkalinity) measurement of wastewater using an electrochemical cell. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 2467-72	2.6	4
40	Novel process of bio-chemical ammonia removal from air streams using a water reflux system and zeolite as filter media. <i>Chemosphere</i> , <b>2016</b> , 144, 257-63	8.4	7
39	Organic carbon removal from wastewater by a PHA storing biofilm using direct atmospheric air contact as oxygen supply. <i>Bioresource Technology</i> , <b>2015</b> , 187, 182-188	11	14
38	Microbial fuel cell biosensor for rapid assessment of assimilable organic carbon under marine conditions. <i>Water Research</i> , <b>2015</b> , 77, 64-71	12.5	32

37	Simultaneous phosphorus uptake and denitrification by EBPR-r biofilm under aerobic conditions: effect of dissolved oxygen. <i>Water Science and Technology</i> , <b>2015</b> , 72, 1147-54	2.2	5
36	In-line deoxygenation for organic carbon detections in seawater using a marine microbial fuel cell-biosensor. <i>Bioresource Technology</i> , <b>2015</b> , 182, 34-40	11	19
35	Upscaling Effects of Soil Improvement by Microbially Induced Calcite Precipitation by Surface Percolation. <i>Geomicrobiology Journal</i> , <b>2014</b> , 31, 396-406	2.5	99
34	Microbially Influenced Corrosion of Steel <b>2014</b> , 159-173		10
33	Detection of low concentration of assimilable organic carbon in seawater prior to reverse osmosis membrane using microbial electrolysis cell biosensor. <i>Desalination and Water Treatment</i> , <b>2014</b> , 1-6		7
32	Hexacyanoferrate-adapted biofilm enables the development of a microbial fuel cell biosensor to detect trace levels of assimilable organic carbon (AOC) in oxygenated seawater. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 2412-20	4.9	18
31	Non-destructive oil extraction from <i>Botryococcus braunii</i> (Chlorophyta). <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1653-1661	3.2	58
30	Cementation of sand soil by microbially induced calcite precipitation at various degrees of saturation. <i>Canadian Geotechnical Journal</i> , <b>2013</b> , 50, 81-90	3.2	34 <sup>o</sup>
29	Selective enrichment and production of highly urease active bacteria by non-sterile (open) chemostat culture. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2013</b> , 40, 1095-104	4.2	48
28	Ammonia recycling enables sustainable operation of bioelectrochemical systems. <i>Bioresource Technology</i> , <b>2013</b> , 143, 25-31	11	39
27	Simplifying cellulase production by using environmental selection pressures and recycling substrate. <i>Environmental Technology (United Kingdom)</i> , <b>2013</b> , 34, 471-5	2.6	4
26	In situ soil cementation with ureolytic bacteria by surface percolation. <i>Ecological Engineering</i> , <b>2012</b> , 42, 64-72	3.9	175
25	Energy-efficient treatment of organic wastewater streams using a rotatable bioelectrochemical contactor (RBEC). <i>Bioresource Technology</i> , <b>2012</b> , 126, 431-6	11	22
24	Consolidation of Sand Particles by Nanoparticles of Calcite after Concentrating Ureolytic Bacteria In Situ. <i>International Journal of Green Nanotechnology</i> , <b>2012</b> , 4, 28-36		13
23	Ammonium as a sustainable proton shuttle in bioelectrochemical systems. <i>Bioresource Technology</i> , <b>2011</b> , 102, 9691-6	11	97
22	Novel methanogenic rotatable bioelectrochemical system operated with polarity inversion. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 796-802	10.3	62
21	Anodophilic biofilm catalyzes cathodic oxygen reduction. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 518-25	10.3	86
20	Ethanol from lignocellulose using crude unprocessed cellulase from solid-state fermentation. <i>Bioresource Technology</i> , <b>2010</b> , 101, 7094-8	11	48

19	Desulfonauticus autotrophicus sp. nov., a novel thermophilic sulfate-reducing bacterium isolated from oil-production water and emended description of the genus Desulfonauticus. <i>Extremophiles</i> , <b>2009</b> , 13, 247-55	3	23
18	A new approach for in situ cyclic voltammetry of a microbial fuel cell biofilm without using a potentiostat. <i>Bioelectrochemistry</i> , <b>2009</b> , 74, 227-31	5.6	18
17	Affinity of microbial fuel cell biofilm for the anodic potential. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3828-34	10.3	82
16	Mechanism of aerobic biological destabilisation of wool scour effluent emulsions. <i>Water Research</i> , <b>2005</b> , 39, 2756-62	12.5	2
15	Treatment of strongflow wool scouring effluent by biological emulsion destabilisation. <i>Water Research</i> , <b>2004</b> , 38, 1419-26	12.5	22
14	The effect of dissolved oxygen on PHB accumulation in activated sludge cultures. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 82, 238-50	4.9	99
13	Simultaneous nitrification and denitrification using stored substrate (PHB) as the electron donor in an SBR. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 83, 706-20	4.9	176
12	Biological treatment of chemically flocculated agro-industrial waste from the wool scouring industry by an aerobic process without sludge recycle. <i>Water Research</i> , <b>1999</b> , 33, 1981-1988	12.5	7
11	Growth of geobacter sulfurreducens with acetate in syntrophic cooperation with hydrogen-oxidizing anaerobic partners. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 2232-6	4.8	166
10	A periplasmic and extracellular c-type cytochrome of Geobacter sulfurreducens acts as a ferric iron reductase and as an electron carrier to other acceptors or to partner bacteria. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 3686-91	3.5	154
9	Dissolved hydrogen concentration as an on-line control parameter for the automated operation and optimization of anaerobic digesters. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 56, 626-34	4.9	55
8	Anaerobic bioflocculation of wool scouring effluent. <i>Water Research</i> , <b>1994</b> , 28, 1743-1747	12.5	10
7	Mechanisms in anaerobic bioflocculation of wool scouring effluent. <i>Water Research</i> , <b>1994</b> , 28, 1749-1754	12.5	8
6	The capacity of hydrogenotrophic anaerobic bacteria to compete for traces of hydrogen depends on the redox potential of the terminal electron acceptor. <i>Archives of Microbiology</i> , <b>1988</b> , 149, 350-357	3	413
5	Interspecific hydrogen transfer during methanol degradation by Sporomusa acidovorans and hydrogenophilic anaerobes. <i>Archives of Microbiology</i> , <b>1986</b> , 144, 163-165	3	59
4	Corroding iron as a hydrogen source for sulphate reduction in growing cultures of sulphate-reducing bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>1986</b> , 25, 169-174	5.7	81
3	Fructose degradation by Desulfovibrio sp. in pure culture and in coculture with Methanospirillum hungatei. <i>Current Microbiology</i> , <b>1986</b> , 13, 285-289	2.4	40
2	Corroding iron as a hydrogen source for sulphate reduction in growing cultures of sulphate-reducing bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>1986</b> , 25, 169-174	5.7	

- 1 A quick method for the determination of dissolved and precipitated sulfides in cultures of sulfate-reducing bacteria. *Journal of Microbiological Methods*, **1985**, 4, 33-36 2.8 520