

# Ralf Cord-Ruwisch

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

4,129  
citations

236833

25  
h-index

182361

51  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3655  
citing authors

#	ARTICLE	IF	CITATIONS
1	A quick method for the determination of dissolved and precipitated sulfides in cultures of sulfate-reducing bacteria. <i>Journal of Microbiological Methods</i> , 1985, 4, 33-36.	0.7	623
2	Cementation of sand soil by microbially induced calcite precipitation at various degrees of saturation. <i>Canadian Geotechnical Journal</i> , 2013, 50, 81-90.	1.4	526
3	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> , 1988, 149, 350-357.	1.0	493
4	In situ soil cementation with ureolytic bacteria by surface percolation. <i>Ecological Engineering</i> , 2012, 42, 64-72.	1.6	245
5	Simultaneous nitrification and denitrification using stored substrate (phb) as the electron donor in an SBR. <i>Biotechnology and Bioengineering</i> , 2003, 83, 706-720.	1.7	196
6	Growth of <i>Geobacter sulfurreducens</i> with Acetate in Syntrophic Cooperation with Hydrogen-Oxidizing Anaerobic Partners. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2232-2236.	1.4	189
7	A Periplasmic and Extracellular <i>c</i> -Type Cytochrome of <i>Geobacter sulfurreducens</i> Acts as a Ferric Iron Reductase and as an Electron Carrier to Other Acceptors or to Partner Bacteria. <i>Journal of Bacteriology</i> , 1998, 180, 3686-3691.	1.0	184
8	Upscaling Effects of Soil Improvement by Microbially Induced Calcite Precipitation by Surface Percolation. <i>Geomicrobiology Journal</i> , 2014, 31, 396-406.	1.0	150
9	The effect of dissolved oxygen on PHB accumulation in activated sludge cultures. <i>Biotechnology and Bioengineering</i> , 2003, 82, 238-250.	1.7	115
10	Ammonium as a sustainable proton shuttle in bioelectrochemical systems. <i>Bioresource Technology</i> , 2011, 102, 9691-9696.	4.8	115
11	Anodophilic Biofilm Catalyzes Cathodic Oxygen Reduction. <i>Environmental Science &amp; Technology</i> , 2010, 44, 518-525.	4.6	97
12	Affinity of Microbial Fuel Cell Biofilm for the Anodic Potential. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3828-3834.	4.6	90
13	Corroding iron as a hydrogen source for sulphate reduction in growing cultures of sulphate-reducing bacteria. <i>Applied Microbiology and Biotechnology</i> , 1986, 25, 169-174.	1.7	89
14	Novel Methanogenic Rotatable Bioelectrochemical System Operated with Polarity Inversion. <i>Environmental Science &amp; Technology</i> , 2011, 45, 796-802.	4.6	78
15	Interspecific hydrogen transfer during methanol degradation by <i>Sporomusa acidovorans</i> and hydrogenophilic anaerobes. <i>Archives of Microbiology</i> , 1986, 144, 163-165.	1.0	66
16	Dissolved hydrogen concentration as an on-line control parameter for the automated operation and optimization of anaerobic digesters. , 1997, 56, 626-634.		64
17	Non-destructive oil extraction from <i>Botryococcus braunii</i> (Chlorophyta). <i>Journal of Applied Phycology</i> , 2013, 25, 1653-1661.	1.5	63
18	Selective enrichment and production of highly urease active bacteria by non-sterile (open) chemostat culture. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1095-1104.	1.4	61

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19	Ethanol from lignocellulose using crude unprocessed cellulase from solid-state fermentation. <i>Bioresource Technology</i> , 2010, 101, 7083-7087.	4.8	55
20	Ammonia recycling enables sustainable operation of bioelectrochemical systems. <i>Bioresource Technology</i> , 2013, 143, 25-31.	4.8	48
21	Fructose degradation by <i>Desulfovibrio</i> sp. in pure culture and in coculture with <i>Methanospirillum hungatei</i> . <i>Current Microbiology</i> , 1986, 13, 285-289.	1.0	47
22	Surface Percolation for Soil Improvement by Biocementation Utilizing <i>In Situ</i> Enriched Indigenous Aerobic and Anaerobic Ureolytic Soil Microorganisms. <i>Geomicrobiology Journal</i> , 2017, 34, 546-556.	1.0	43
23	Microbial fuel cell biosensor for rapid assessment of assimilable organic carbon under marine conditions. <i>Water Research</i> , 2015, 77, 64-71.	5.3	38
24	<i>Desulfonauticus autotrophicus</i> sp. nov., a novel thermophilic sulfate-reducing bacterium isolated from oil-production water and emended description of the genus <i>Desulfonauticus</i> . <i>Extremophiles</i> , 2009, 13, 247-255.	0.9	36
25	Bioelectrochemical enhancement of anaerobic digestion: Comparing single- and two-chamber reactor configurations at thermophilic conditions. <i>Bioresource Technology</i> , 2017, 245, 1168-1175.	4.8	35
26	Energy efficient COD and N-removal from high-strength wastewater by a passively aerated GAO dominated biofilm. <i>Bioresource Technology</i> , 2019, 283, 148-158.	4.8	27
27	Ethanol and lactic acid production from sugar and starch wastes by anaerobic acidification. <i>Engineering in Life Sciences</i> , 2018, 18, 635-642.	2.0	26
28	Energy-efficient treatment of organic wastewater streams using a rotatable bioelectrochemical contactor (RBEC). <i>Bioresource Technology</i> , 2012, 126, 431-436.	4.8	24
29	Rapid adaptation of activated sludge bacteria into a glycogen accumulating biofilm enabling anaerobic BOD uptake. <i>Bioresource Technology</i> , 2017, 228, 1-8.	4.8	24
30	Treatment of strongflow wool scouring effluent by biological emulsion destabilisation. <i>Water Research</i> , 2004, 38, 1419-1426.	5.3	23
31	In-line deoxygenation for organic carbon detections in seawater using a marine microbial fuel cell-biosensor. <i>Bioresource Technology</i> , 2015, 182, 34-40.	4.8	23
32	A new approach for in situ cyclic voltammetry of a microbial fuel cell biofilm without using a potentiostat. <i>Bioelectrochemistry</i> , 2009, 74, 227-231.	2.4	21
33	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> , 2014, 111, 2412-2420.	1.7	20
34	Concurrent Lactic and Volatile Fatty Acid Analysis of Microbial Fermentation Samples by Gas Chromatography with Heat Pre-treatment. <i>Journal of Chromatographic Science</i> , 2018, 56, 1-5.	0.7	20
35	Consolidation of Sand Particles by Nanoparticles of Calcite after Concentrating Ureolytic Bacteria In Situ. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 28-36.	0.3	19
36	Organic carbon removal from wastewater by a PHA storing biofilm using direct atmospheric air contact as oxygen supply. <i>Bioresource Technology</i> , 2015, 187, 182-188.	4.8	14

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37	Microbially Influenced Corrosion of Steel. , 2014, , 159-173.		13
38	Anaerobic bioflocculation of wool scouring effluent. <i>Water Research</i> , 1994, 28, 1743-1747.	5.3	12
39	Mechanisms in anaerobic bioflocculation of wool scouring effluent. <i>Water Research</i> , 1994, 28, 1749-1754.	5.3	11
40	Direct oxygen uptake from air by novel glycogen accumulating organism dominated biofilm minimizes excess sludge production. <i>Science of the Total Environment</i> , 2018, 640-641, 80-88.	3.9	11
41	In vitro rumen fermentation of soluble and non-soluble polymeric carbohydrates in relation to ruminal acidosis. <i>Annals of Microbiology</i> , 2018, 68, 1-8.	1.1	10
42	Corroding iron as a hydrogen source for sulphate reduction in growing cultures of sulphate-reducing bacteria. <i>Applied Microbiology and Biotechnology</i> , 1986, 25, 169-174.	1.7	10
43	Biological treatment of chemically flocculated agro-industrial waste from the wool scouring industry by an aerobic process without sludge recycle. <i>Water Research</i> , 1999, 33, 1981-1988.	5.3	9
44	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> , 0, , 1-6.	1.0	9
45	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> , 2022, 807, 150602.	3.9	9
46	Proof of concept of wastewater treatment via passive aeration SND using a novel zeolite amended biofilm reactor. <i>Water Science and Technology</i> , 2018, 78, 2204-2213.	1.2	8
47	Simultaneous phosphorus uptake and denitrification by EBPR-r biofilm under aerobic conditions: effect of dissolved oxygen. <i>Water Science and Technology</i> , 2015, 72, 1147-1154.	1.2	7
48	Novel process of bio-chemical ammonia removal from air streams using a water reflux system and zeolite as filter media. <i>Chemosphere</i> , 2016, 144, 257-263.	4.2	7
49	Mechanism of aerobic biological destabilisation of wool scour effluent emulsions. <i>Water Research</i> , 2005, 39, 2756-2762.	5.3	5
50	Anaerobic acidification of sugar-containing wastewater for biotechnological production of organic acids and ethanol. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3276-3286.	1.2	5
51	Novel microbial-electrochemical filter with a computer-feedback pH control strategy for upgrading biogas into biomethane. <i>Bioresource Technology</i> , 2021, 332, 125137.	4.8	5
52	Simplifying cellulase production by using environmental selection pressures and recycling substrate. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 471-475.	1.2	4
53	Automatic online buffer capacity (alkalinity) measurement of wastewater using an electrochemical cell. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2467-2472.	1.2	4
54	New method for characterizing electron mediators in microbial systems using a thin-layer twin-working electrode cell. <i>Biosensors and Bioelectronics</i> , 2017, 87, 531-536.	5.3	3

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55	Hydraulic Energy Generation for RO (Reverse Osmosis) from PRO (Pressure Retarded Osmosis). , 2020, ,		0