

Alexander Jb Zehnder

List of Publications by Year in descending order

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36
papers

3,492
citations

236925

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361022

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36
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36
docs citations

36
times ranked

4055
citing authors

#	ARTICLE	IF	CITATIONS
1	Methanogenesis from acetate: a comparison of the acetate metabolism in <i>Methanotrix soehngeni</i> and <i>Methanosarcina</i> spp.. FEMS Microbiology Letters, 1992, 88, 181-198.	1.8	411
2	Enrichment, Phylogenetic Analysis and Detection of a Bacterium That Performs Enhanced Biological Phosphate Removal in Activated Sludge. Systematic and Applied Microbiology, 1999, 22, 454-465.	2.8	358
3	Reversibility and mechanism of bacterial adhesion. Colloids and Surfaces B: Biointerfaces, 1995, 4, 5-22.	5.0	230
4	DLVO and steric contributions to bacterial deposition in media of different ionic strengths. Colloids and Surfaces B: Biointerfaces, 1999, 14, 179-195.	5.0	222
5	Determination of the total charge in the cell walls of Gram-positive bacteria. Colloids and Surfaces B: Biointerfaces, 1997, 9, 81-100.	5.0	218
6	Modeling impacts of climate change on freshwater availability in Africa. Journal of Hydrology, 2013, 480, 85-101.	5.4	197
7	Water scarcity, pricing mechanism and institutional reform in northern China irrigated agriculture. Agricultural Water Management, 2003, 61, 143-161.	5.6	182
8	The isoelectric point of bacteria as an indicator for the presence of cell surface polymers that inhibit adhesion. Colloids and Surfaces B: Biointerfaces, 1995, 4, 191-197.	5.0	181
9	Transport of bacteria in unsaturated porous media. Journal of Contaminant Hydrology, 1998, 33, 149-169.	3.3	162
10	Acetate threshold values and acetate activating enzymes in methanogenic bacteria. FEMS Microbiology Letters, 1990, 73, 339-344.	1.8	137
11	Water Scarcity and Food Import: A Case Study for Southern Mediterranean Countries. World Development, 2002, 30, 1413-1430.	4.9	124
12	The glutathione peroxidase homologous gene from <i>Chlamydomonas reinhardtii</i> is transcriptionally up-regulated by singlet oxygen. Plant Molecular Biology, 2001, 46, 395-408.	3.9	105
13	Influence of temperature and high acetate concentrations on methanogenesis in lake sediment slurries. FEMS Microbiology Ecology, 2007, 62, 336-344.	2.7	104
14	<i>Methanosarcina lacustris</i> sp. nov., a New Psychrotolerant Methanogenic Archaeon from Anoxic Lake Sediments. Systematic and Applied Microbiology, 2001, 24, 362-367.	2.8	81
15	The South-North Water Transfer Project in China. Water International, 2005, 30, 339-349.	1.0	75
16	Water scarcity and food trade in the Southern and Eastern Mediterranean countries. Food Policy, 2007, 32, 585-605.	6.0	71
17	Setting up a hydrological model of Alberta: Data discrimination analyses prior to calibration. Environmental Modelling and Software, 2015, 74, 48-65.	4.5	71
18	Conductivity and Dielectric Dispersion of Gram-Positive Bacterial Cells. Journal of Colloid and Interface Science, 1997, 186, 71-79.	9.4	68

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19	DNA degradation by the mixture of copper and catechol is caused by DNA-copper-hydroperoxo complexes, probably DNA-Cu(I)OOH. <i>Environmental and Molecular Mutagenesis</i> , 2000, 36, 5-12.	2.2	66
20	Polymer interactions between five gram-negative bacteria and glass investigated using LPS micelles and vesicles as model systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 11, 33-45.	5.0	58
21	Carbon monoxide dehydrogenase and acetate thiokinase in <i>Methanothrix soehngenii</i> . <i>FEMS Microbiology Letters</i> , 1984, 21, 287-292.	1.8	49
22	Uncertainty based assessment of dynamic freshwater scarcity in semi-arid watersheds of Alberta, Canada. <i>Journal of Hydrology: Regional Studies</i> , 2017, 9, 48-68.	2.4	47
23	Determination of polyhydroxyalkanoates in activated sludge by ion chromatographic and enzymatic methods. <i>Journal of Microbiological Methods</i> , 1999, 35, 111-119.	1.6	41
24	Structure of a glutathione peroxidase homologous gene involved in the oxidative stress response in <i>Chlamydomonas reinhardtii</i> . <i>Plant Science</i> , 1999, 149, 139-149.	3.6	33
25	Potential impacts of water harvesting and ecological sanitation on crop yield, evaporation and river flow regimes in the Thukela River basin, South Africa. <i>Agricultural Water Management</i> , 2011, 98, 1113-1124.	5.6	33
26	Contribution of precipitated phosphates and acid-soluble polyphosphate to enhanced biological phosphate removal. <i>Water Research</i> , 1992, 26, 937-943.	11.3	25
27	Biological energy production in the apparent absence of electron transport and substrate level phosphorylation. <i>FEBS Letters</i> , 1979, 107, 1-3.	2.8	23
28	Purification and some properties of the methyl-CoM reductase of <i>Methanothrix soehngenii</i> . <i>FEMS Microbiology Letters</i> , 1990, 66, 183-186.	1.8	23
29	Repair of damaged vivianite coatings on mild steel using bacteria. <i>Corrosion Science</i> , 2001, 43, 2135-2146.	6.6	20
30	Action of chelators on solid iron in phosphate-containing aqueous solutions. <i>Corrosion Science</i> , 2003, 45, 1717-1732.	6.6	19
31	Combinations of chlorocatechols and heavy metals cause DNA degradation in vitro but must not result in increased mutation rates in vivo. , 1999, 33, 202-210.		16
32	Adenine nucleotide content and energy charge of <i>Methanothrix soehngeni</i> during acetate degradation. <i>FEMS Microbiology Letters</i> , 1991, 84, 313-318.	1.8	15
33	Phosphate and nitrate removal. <i>Current Opinion in Biotechnology</i> , 1994, 5, 275-284.	6.6	12
34	Improved SWAT Model Performance With Timeâ€Dynamic Voronoi Tessellation of Climatic Input Data in Southern Africa¹. <i>Journal of the American Water Resources Association</i> , 2012, 48, 480-493.	2.4	11
35	Water Endowments and Virtual Water Trade. <i>Gaia</i> , 2002, 11, 263-266.	0.7	3
36	Behavior of chemical contaminants under controlled redox conditions in an artificial sequential soil column system and in batch cultures. <i>Biodegradation</i> , 1999, 10, 405-414.	3.0	1