

Nico Boon

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503
papers

31,743
citations

95
h-index

156
g-index

527
ext. papers

36,392
ext. citations

6.8
avg. IF

7.31
L-index

#	Paper	IF	Citations
503	Biofuel cells select for microbial consortia that self-mediate electron transfer. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5373-82	4.8	953
502	Microbial phenazine production enhances electron transfer in biofuel cells. <i>Environmental Science & Technology</i> , 2005 , 39, 3401-8	10.3	726
501	Initial community evenness favours functionality under selective stress. <i>Nature</i> , 2009 , 458, 623-6	50.4	683
500	Continuous electricity generation at high voltages and currents using stacked microbial fuel cells. <i>Environmental Science & Technology</i> , 2006 , 40, 3388-94	10.3	659
499	Biological denitrification in microbial fuel cells. <i>Environmental Science & Technology</i> , 2007 , 41, 3354-60	6.3	648
498	Environmental factors shaping the ecological niches of ammonia-oxidizing archaea. <i>FEMS Microbiology Reviews</i> , 2009 , 33, 855-69	15.1	517
497	Methanosarcina: the rediscovered methanogen for heavy duty biomethanation. <i>Bioresource Technology</i> , 2012 , 112, 1-9	11	510
496	Chemical and biological technologies for hydrogen sulfide emission control in sewer systems: a review. <i>Water Research</i> , 2008 , 42, 1-12	12.5	496
495	The basics of bio-flocs technology: The added value for aquaculture. <i>Aquaculture</i> , 2008 , 277, 125-137	4.4	432
494	How to get more out of molecular fingerprints: practical tools for microbial ecology. <i>Environmental Microbiology</i> , 2008 , 10, 1571-81	5.2	388
493	Evaluation of nested PCR-DGGE (denaturing gradient gel electrophoresis) with group-specific 16S rRNA primers for the analysis of bacterial communities from different wastewater treatment plants. <i>FEMS Microbiology Ecology</i> , 2002 , 39, 101-12	4.3	335
492	Open air biocathode enables effective electricity generation with microbial fuel cells. <i>Environmental Science & Technology</i> , 2007 , 41, 7564-9	10.3	334
491	Strain-specific ureolytic microbial calcium carbonate precipitation. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 4901-9	4.8	324
490	Microbial fuel cells for sulfide removal. <i>Environmental Science & Technology</i> , 2006 , 40, 5218-24	10.3	321
489	Bioaugmentation of activated sludge by an indigenous 3-chloroaniline-degrading <i>Comamonas testosteroni</i> strain, I2gfp. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2906-13	4.8	292
488	Lactic acid bacteria as reducing and capping agent for the fast and efficient production of silver nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 741-9	5.7	279
487	Microbial Fuel Cells in Relation to Conventional Anaerobic Digestion Technology. <i>Engineering in Life Sciences</i> , 2006 , 6, 285-292	3.4	276

486	Loading rate and external resistance control the electricity generation of microbial fuel cells with different three-dimensional anodes. <i>Bioresource Technology</i> , 2008 , 99, 8895-902	11	260
485	Aggregate size and architecture determine microbial activity balance for one-stage partial nitrification and anammox. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 900-9	4.8	255
484	Alternatives to antibiotics to control bacterial infections: luminescent vibriosis in aquaculture as an example. <i>Trends in Biotechnology</i> , 2007 , 25, 472-9	15.1	255
483	Flue gas compounds and microalgae: (bio-)chemical interactions leading to biotechnological opportunities. <i>Biotechnology Advances</i> , 2012 , 30, 1405-24	17.8	238
482	Microbial fuel cells generating electricity from rhizodeposits of rice plants. <i>Environmental Science & Technology</i> , 2008 , 42, 3053-8	10.3	233
481	Metabolites produced by <i>Pseudomonas</i> sp. enable a Gram-positive bacterium to achieve extracellular electron transfer. <i>Applied Microbiology and Biotechnology</i> , 2008 , 77, 1119-29	5.7	224
480	Ammonia and temperature determine potential clustering in the anaerobic digestion microbiome. <i>Water Research</i> , 2015 , 75, 312-23	12.5	220
479	Is biological treatment a viable alternative for micropollutant removal in drinking water treatment processes?. <i>Water Research</i> , 2013 , 47, 5955-76	12.5	217
478	Cultivation of denitrifying bacteria: optimization of isolation conditions and diversity study. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2637-43	4.8	211
477	Bioaugmentation as a tool to protect the structure and function of an activated-sludge microbial community against a 3-chloroaniline shock load. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1511-20	4.8	209
476	Synergistic degradation of linuron by a bacterial consortium and isolation of a single linuron-degrading variovorax strain. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1532-41	4.8	204
475	Butyrate-producing bacteria supplemented in vitro to Crohn's disease patient microbiota increased butyrate production and enhanced intestinal epithelial barrier integrity. <i>Scientific Reports</i> , 2017 , 7, 11450	4.9	203
474	Probiotics in aquaculture of China [Current state, problems and prospect. <i>Aquaculture</i> , 2009 , 290, 15-21	4.4	202
473	Inulin-type fructans of longer degree of polymerization exert more pronounced in vitro prebiotic effects. <i>Journal of Applied Microbiology</i> , 2007 , 102, 452-60	4.7	201
472	Disruption of bacterial quorum sensing: an unexplored strategy to fight infections in aquaculture. <i>Aquaculture</i> , 2004 , 240, 69-88	4.4	187
471	Biogenic metals in advanced water treatment. <i>Trends in Biotechnology</i> , 2009 , 27, 90-8	15.1	185
470	Isolation and characterisation of an equol-producing mixed microbial culture from a human faecal sample and its activity under gastrointestinal conditions. <i>Archives of Microbiology</i> , 2005 , 183, 45-55	3	181
469	The incidence of nirS and nirK and their genetic heterogeneity in cultivated denitrifiers. <i>Environmental Microbiology</i> , 2006 , 8, 2012-21	5.2	180

468	Overnight stagnation of drinking water in household taps induces microbial growth and changes in community composition. <i>Water Research</i> , 2010 , 44, 4868-77	12.5	176
467	Absolute quantification of microbial taxon abundances. <i>ISME Journal</i> , 2017 , 11, 584-587	11.9	169
466	Past, present and future applications of flow cytometry in aquatic microbiology. <i>Trends in Biotechnology</i> , 2010 , 28, 416-24	15.1	168
465	Conceptualizing functional traits and ecological characteristics of methane-oxidizing bacteria as life strategies. <i>Environmental Microbiology Reports</i> , 2013 , 5, 335-45	3.7	165
464	Biologically produced nanosilver: current state and future perspectives. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2422-36	4.9	165
463	Real-time PCR assay for the simultaneous quantification of nitrifying and denitrifying bacteria in activated sludge. <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 211-21	5.7	160
462	Quantifying community dynamics of nitrifiers in functionally stable reactors. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 286-93	4.8	158
461	Biodegradation: Updating the concepts of control for microbial cleanup in contaminated aquifers. <i>Environmental Science & Technology</i> , 2015 , 49, 7073-81	10.3	155
460	Electrochemical resource recovery from digestate to prevent ammonia toxicity during anaerobic digestion. <i>Environmental Science & Technology</i> , 2012 , 46, 12209-16	10.3	153
459	Microbial fuel cells operating on mixed fatty acids. <i>Bioresource Technology</i> , 2010 , 101, 1233-8	11	153
458	Synthetic microbial ecosystems: an exciting tool to understand and apply microbial communities. <i>Environmental Microbiology</i> , 2014 , 16, 1472-81	5.2	152
457	Can bacteria evolve resistance to quorum sensing disruption?. <i>PLoS Pathogens</i> , 2010 , 6, e1000989	7.6	152
456	Anaerobic digestibility of <i>Scenedesmus obliquus</i> and <i>Phaeodactylum tricornutum</i> under mesophilic and thermophilic conditions. <i>Applied Energy</i> , 2012 , 92, 733-738	10.7	147
455	One-stage partial nitritation/anammox at 15 °C on pretreated sewage: feasibility demonstration at lab-scale. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 10199-210	5.7	145
454	A completely anoxic microbial fuel cell using a photo-biocathode for cathodic carbon dioxide reduction. <i>Energy and Environmental Science</i> , 2009 , 2, 498	35.4	143
453	Prebiotic effects of chicory inulin in the simulator of the human intestinal microbial ecosystem. <i>FEMS Microbiology Ecology</i> , 2004 , 51, 143-53	4.3	140
452	Microbial protein: future sustainable food supply route with low environmental footprint. <i>Microbial Biotechnology</i> , 2016 , 9, 568-75	6.3	140
451	Isolation and characterization of low nucleic acid (LNA)-content bacteria. <i>ISME Journal</i> , 2009 , 3, 889-902	11.9	139

450	Bioaugmentation of soils by increasing microbial richness: missing links. <i>Environmental Microbiology</i> , 2001 , 3, 649-57	5.2	139
449	Nitrogen removal from digested black water by one-stage partial nitrification and anammox. <i>Environmental Science & Technology</i> , 2009 , 43, 5035-41	10.3	135
448	Genetic diversity among 3-chloroaniline- and aniline-degrading strains of the Comamonadaceae. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 1107-15	4.8	135
447	Flow cytometric bacterial cell counts challenge conventional heterotrophic plate counts for routine microbiological drinking water monitoring. <i>Water Research</i> , 2017 , 113, 191-206	12.5	134
446	Autotrophic denitrification in microbial fuel cells treating low ionic strength waters. <i>Environmental Science & Technology</i> , 2012 , 46, 2309-15	10.3	133
445	Degradation of acetaminophen by <i>Delftia tsuruhatensis</i> and <i>Pseudomonas aeruginosa</i> in a membrane bioreactor. <i>Water Research</i> , 2011 , 45, 1829-37	12.5	131
444	Catabolic mobile genetic elements and their potential use in bioaugmentation of polluted soils and waters. <i>FEMS Microbiology Ecology</i> , 2002 , 42, 199-208	4.3	131
443	Abundance and composition of indigenous bacterial communities in a multi-step biofiltration-based drinking water treatment plant. <i>Water Research</i> , 2014 , 62, 40-52	12.5	126
442	The antibacterial activity of biogenic silver and its mode of action. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 153-62	5.7	126
441	Poly-beta-hydroxybutyrate (PHB) increases growth performance and intestinal bacterial range-weighted richness in juvenile European sea bass, <i>Dicentrarchus labrax</i> . <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 1535-41	5.7	124
440	Short-chain fatty acids and poly-beta-hydroxyalkanoates: (New) Biocontrol agents for a sustainable animal production. <i>Biotechnology Advances</i> , 2009 , 27, 680-685	17.8	123
439	The use of microalgae as a high-value organic slow-release fertilizer results in tomatoes with increased carotenoid and sugar levels. <i>Journal of Applied Phycology</i> , 2016 , 28, 2367-2377	3.2	122
438	Diversity of <i>Bacillus cereus</i> group strains is reflected in their broad range of pathogenicity and diverse ecological lifestyles. <i>FEMS Microbiology Ecology</i> , 2013 , 84, 433-50	4.3	122
437	The bacterial storage compound poly-beta-hydroxybutyrate protects <i>Artemia franciscana</i> from pathogenic <i>Vibrio campbellii</i> . <i>Environmental Microbiology</i> , 2007 , 9, 445-52	5.2	122
436	Strategies of aerobic ammonia-oxidizing bacteria for coping with nutrient and oxygen fluctuations. <i>FEMS Microbiology Ecology</i> , 2006 , 58, 1-13	4.3	120
435	Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. <i>Water Research</i> , 2014 , 54, 211-21	12.5	119
434	Biogenic silver for disinfection of water contaminated with viruses. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1082-7	4.8	119
433	Methanotrophic archaea possessing diverging methane-oxidizing and electron-transporting pathways. <i>ISME Journal</i> , 2014 , 8, 1069-78	11.9	118

432	Quorum sensing and quorum quenching in <i>Vibrio harveyi</i> : lessons learned from in vivo work. <i>ISME Journal</i> , 2008 , 2, 19-26	11.9	117
431	A microbiology-based multi-parametric approach towards assessing biological stability in drinking water distribution networks. <i>Water Research</i> , 2013 , 47, 3015-25	12.5	115
430	Production of polyhydroxyalkanoates in open, mixed cultures from a waste sludge stream containing high levels of soluble organics, nitrogen and phosphorus. <i>Water Research</i> , 2010 , 44, 5196-211	12.5	115
429	Strategies to mitigate N ₂ O emissions from biological nitrogen removal systems. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 474-82	11.4	114
428	Bacterial community structure corresponds to performance during cathodic nitrate reduction. <i>ISME Journal</i> , 2010 , 4, 1443-55	11.9	114
427	High shear enrichment improves the performance of the anodophilic microbial consortium in a microbial fuel cell. <i>Microbial Biotechnology</i> , 2008 , 1, 487-96	6.3	114
426	Bio-palladium: from metal recovery to catalytic applications. <i>Microbial Biotechnology</i> , 2012 , 5, 5-17	6.3	113
425	Diclofenac oxidation by biogenic manganese oxides. <i>Environmental Science & Technology</i> , 2010 , 44, 3449-54	10.3	112
424	Screening of bacteria and concrete compatible protection materials. <i>Construction and Building Materials</i> , 2015 , 88, 196-203	6.7	109
423	Quantification of the filterability of freshwater bacteria through 0.45, 0.22, and 0.1 microm pore size filters and shape-dependent enrichment of filterable bacterial communities. <i>Environmental Science & Technology</i> , 2007 , 41, 7080-6	10.3	108
422	Biological control of the size and reactivity of catalytic Pd(0) produced by <i>Shewanella oneidensis</i> . <i>Antonie Van Leeuwenhoek</i> , 2006 , 90, 377-89	2.1	107
421	Chronic cigarette smoke exposure induces microbial and inflammatory shifts and mucin changes in the murine gut. <i>Environmental Microbiology</i> , 2016 , 18, 1352-63	5.2	107
420	Use of <i>Pseudomonas</i> species producing phenazine-based metabolites in the anodes of microbial fuel cells to improve electricity generation. <i>Applied Microbiology and Biotechnology</i> , 2008 , 80, 985-93	5.7	104
419	Denitrification is a common feature among members of the genus <i>Bacillus</i> . <i>Systematic and Applied Microbiology</i> , 2011 , 34, 385-91	4.2	102
418	Accumulation of trans C18:1 fatty acids in the rumen after dietary algal supplementation is associated with changes in the <i>Butyrivibrio</i> community. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 6923-30	4.8	102
417	Up-scaling aquaculture wastewater treatment by microalgal bacterial flocs: from lab reactors to an outdoor raceway pond. <i>Bioresource Technology</i> , 2014 , 159, 342-54	11	101
416	Measuring the biodiversity of microbial communities by flow cytometry. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 1376-1385	7.7	100
415	Bioflocculation of microalgae and bacteria combined with flue gas to improve sewage treatment. <i>New Biotechnology</i> , 2011 , 29, 23-31	6.4	99

4 ¹⁴	Enhanced removal of 1,2-dichloroethane by anodophilic microbial consortia. <i>Water Research</i> , 2009 , 43, 2936-46	12.5	99
4 ¹³	The more, the merrier: heterotroph richness stimulates methanotrophic activity. <i>ISME Journal</i> , 2014 , 8, 1945-8	11.9	98
4 ¹²	Biotechnologies for Marine Oil Spill Cleanup: Indissoluble Ties with Microorganisms. <i>Trends in Biotechnology</i> , 2017 , 35, 860-870	15.1	97
4 ¹¹	Microbial carbonate precipitation for the improvement of quality of recycled aggregates. <i>Journal of Cleaner Production</i> , 2017 , 156, 355-366	10.3	96
4 ¹⁰	Microbial community analysis of anodes from sediment microbial fuel cells powered by rhizodeposits of living rice plants. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2002-8	4.8	96
4 ⁰⁹	Toward energy-neutral wastewater treatment: a high-rate contact stabilization process to maximally recover sewage organics. <i>Bioresource Technology</i> , 2015 , 179, 373-381	11	95
4 ⁰⁸	Microbial Resource Management: The Road To Go for Environmental Biotechnology. <i>Engineering in Life Sciences</i> , 2007 , 7, 117-126	3.4	94
4 ⁰⁷	Analysis of the microbial communities on corroded concrete sewer pipes--a case study. <i>Applied Microbiology and Biotechnology</i> , 2001 , 57, 776-85	5.7	94
4 ⁰⁶	Biotechnologies for critical raw material recovery from primary and secondary sources: R&D priorities and future perspectives. <i>New Biotechnology</i> , 2015 , 32, 121-7	6.4	93
4 ⁰⁵	Routine bacterial analysis with automated flow cytometry. <i>Journal of Microbiological Methods</i> , 2013 , 94, 73-76	2.8	93
4 ⁰⁴	Outlook for benefits of sediment microbial fuel cells with two bio-electrodes. <i>Microbial Biotechnology</i> , 2008 , 1, 446-62	6.3	93
4 ⁰³	Application of microorganisms in concrete: a promising sustainable strategy to improve concrete durability. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2993-3007	5.7	92
4 ⁰²	Flow cytometry for fast microbial community fingerprinting. <i>Water Research</i> , 2012 , 46, 907-19	12.5	92
4 ⁰¹	Environmental conditions and community evenness determine the outcome of biological invasion. <i>Nature Communications</i> , 2013 , 4, 1383	17.4	92
4 ⁰⁰	Biofilm-grown Burkholderia cepacia complex cells survive antibiotic treatment by avoiding production of reactive oxygen species. <i>PLoS ONE</i> , 2013 , 8, e58943	3.7	92
399	Virus disinfection in water by biogenic silver immobilized in polyvinylidene fluoride membranes. <i>Water Research</i> , 2011 , 45, 1856-64	12.5	92
398	Influence of strain-specific parameters on hydrothermal liquefaction of microalgae. <i>Bioresource Technology</i> , 2013 , 146, 463-471	11	91
397	Microbially induced CaCO ₃ precipitation through denitrification: An optimization study in minimal nutrient environment. <i>Biochemical Engineering Journal</i> , 2015 , 101, 108-118	4.2	91

396	Necrotrophic growth of <i>Legionella pneumophila</i> . <i>Applied and Environmental Microbiology</i> , 2006 , 72, 4323-4328	4.8	89
395	Biosupported bimetallic Pd-Au nanocatalysts for dechlorination of environmental contaminants. <i>Environmental Science & Technology</i> , 2011 , 45, 8506-13	10.3	88
394	Regulation of toxin production by <i>Bacillus cereus</i> and its food safety implications. <i>Critical Reviews in Microbiology</i> , 2011 , 37, 188-213	7.8	87
393	Application of modified-alginate encapsulated carbonate producing bacteria in concrete: a promising strategy for crack self-healing. <i>Frontiers in Microbiology</i> , 2015 , 6, 1088	5.7	85
392	Correlations between molecular and operational parameters in continuous lab-scale anaerobic reactors. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 303-14	5.7	85
391	Biological removal of 17alpha-ethinylestradiol by a nitrifier enrichment culture in a membrane bioreactor. <i>Water Research</i> , 2009 , 43, 2493-503	12.5	85
390	Enhanced crack closure performance of microbial mortar through nitrate reduction. <i>Cement and Concrete Composites</i> , 2016 , 70, 159-170	8.6	85
389	Inoculum selection is crucial to ensure operational stability in anaerobic digestion. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 189-99	5.7	83
388	Biogenic metals for the oxidative and reductive removal of pharmaceuticals, biocides and iodinated contrast media in a polishing membrane bioreactor. <i>Water Research</i> , 2011 , 45, 1763-73	12.5	83
387	Microbiology and immunology of fish larvae. <i>Reviews in Aquaculture</i> , 2013 , 5, S1-S25	8.9	82
386	17alpha-ethinylestradiol cometabolism by bacteria degrading estrone, 17beta-estradiol and estriol. <i>Biodegradation</i> , 2008 , 19, 683-93	4.1	82
385	Microbial odor profile of polyester and cotton clothes after a fitness session. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 6611-9	4.8	81
384	Repeated pulse feeding induces functional stability in anaerobic digestion. <i>Microbial Biotechnology</i> , 2013 , 6, 414-24	6.3	79
383	Decreased colonization of fecal <i>Clostridium coccoides</i> / <i>Eubacterium rectale</i> species from ulcerative colitis patients in an in vitro dynamic gut model with mucin environment. <i>FEMS Microbiology Ecology</i> , 2012 , 79, 685-96	4.3	79
382	Greenhouse gas emissions from rice microcosms amended with a plant microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3205-17	5.7	78
381	Decentralized two-stage sewage treatment by chemical-biological flocculation combined with microalgae biofilm for nutrient immobilization in a roof installed parallel plate reactor. <i>Bioresource Technology</i> , 2013 , 130, 152-60	11	78
380	Comparing Metabolic Functionalities, Community Structures, and Dynamics of Herbicide-Degrading Communities Cultivated with Different Substrate Concentrations. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1760-1760	4.8	78
379	Nutrient gradients in a granular activated carbon biofilter drives bacterial community organization and dynamics. <i>Water Research</i> , 2011 , 45, 6355-61	12.5	78

378	Autotrophic nitrogen assimilation and carbon capture for microbial protein production by a novel enrichment of hydrogen-oxidizing bacteria. <i>Water Research</i> , 2016 , 101, 137-146	12.5	76
377	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018 , 52, 7351-7359	10.3	76
376	High-rate iron-rich activated sludge as stabilizing agent for the anaerobic digestion of kitchen waste. <i>Water Research</i> , 2013 , 47, 3732-41	12.5	76
375	Bioaugmenting bioreactors for the continuous removal of 3-chloroaniline by a slow release approach. <i>Environmental Science & Technology</i> , 2002 , 36, 4698-704	10.3	75
374	Concomitant microbial generation of palladium nanoparticles and hydrogen to immobilize chromate. <i>Environmental Science & Technology</i> , 2010 , 44, 7635-40	10.3	74
373	Treatment of industrial wastewaters by microalgal bacterial flocs in sequencing batch reactors. <i>Bioresource Technology</i> , 2014 , 161, 245-54	11	73
372	Biocatalytic dechlorination of trichloroethylene with bio-palladium in a pilot-scale membrane reactor. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 995-1002	4.9	72
371	Biotic Interactions in Microbial Communities as Modulators of Biogeochemical Processes: Methanotrophy as a Model System. <i>Frontiers in Microbiology</i> , 2016 , 7, 1285	5.7	71
370	Palladium nanoparticles produced by fermentatively cultivated bacteria as catalyst for diatrizoate removal with biogenic hydrogen. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 1435-45	5.7	70
369	Enhanced nitrogen removal in bio-electrochemical systems by pH control. <i>Biotechnology Letters</i> , 2009 , 31, 1537-43	3	70
368	Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1511-9	5.7	69
367	Electricity generation by an enriched phototrophic consortium in a microbial fuel cell. <i>Electrochemistry Communications</i> , 2008 , 10, 1392-1395	5.1	69
366	Inoculum selection influences the biochemical methane potential of agro-industrial substrates. <i>Microbial Biotechnology</i> , 2015 , 8, 776-86	6.3	65
365	Stimulation of in vitro anaerobic oxidation of methane rate in a continuous high-pressure bioreactor. <i>Bioresource Technology</i> , 2010 , 101, 3132-8	11	65
364	Poly-beta-hydroxybutyrate-accumulating bacteria protect gnotobiotic <i>Artemia franciscana</i> from pathogenic <i>Vibrio campbellii</i> . <i>FEMS Microbiology Ecology</i> , 2007 , 60, 363-9	4.3	65
363	Geobacter, Anaeromyxobacter and Anaerolineae populations are enriched on anodes of root exudate-driven microbial fuel cells in rice field soil. <i>Environmental Microbiology Reports</i> , 2015 , 7, 489-97	3.7	64
362	PCR-based community structure studies of bacteria associated with eukaryotic organisms: a simple PCR strategy to avoid co-amplification of eukaryotic DNA. <i>Journal of Microbiological Methods</i> , 2011 , 84, 349-51	2.8	64
361	Microalgal bacterial floc properties are improved by a balanced inorganic/organic carbon ratio. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 549-58	4.9	64

360	Reactivation of aerobic and anaerobic ammonium oxidizers in OLAND biomass after long-term storage. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1376-84	5.7	64
359	Resource recovery from used water: the manufacturing abilities of hydrogen-oxidizing bacteria. <i>Water Research</i> , 2015 , 68, 467-78	12.5	63
358	Nitrate reducing CaCO ₃ precipitating bacteria survive in mortar and inhibit steel corrosion. <i>Cement and Concrete Research</i> , 2016 , 83, 19-30	10.3	63
357	Conversion of biogas to bioproducts by algae and methane oxidizing bacteria. <i>Environmental Science & Technology</i> , 2012 , 46, 13425-31	10.3	62
356	Development of a bacterial challenge test for gnotobiotic sea bass (<i>Dicentrarchus labrax</i>) larvae. <i>Environmental Microbiology</i> , 2009 , 11, 526-33	5.2	62
355	Microbial community redundancy in anaerobic digestion drives process recovery after salinity exposure. <i>Water Research</i> , 2017 , 111, 109-117	12.5	61
354	Microbial production and environmental applications of Pd nanoparticles for treatment of halogenated compounds. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 555-61	11.4	61
353	Antimicrobial effects of commensal oral species are regulated by environmental factors. <i>Journal of Dentistry</i> , 2016 , 47, 23-33	4.8	60
352	Optimized cryopreservation of mixed microbial communities for conserved functionality and diversity. <i>PLoS ONE</i> , 2014 , 9, e99517	3.7	60
351	Doping of biogenic Pd catalysts with Au enables dechlorination of diclofenac at environmental conditions. <i>Water Research</i> , 2012 , 46, 2718-26	12.5	60
350	Microbial Resource Management revisited: successful parameters and new concepts. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 861-71	5.7	60
349	Partial nitrification achieved by pulse sulfide doses in a sequential batch reactor. <i>Environmental Science & Technology</i> , 2008 , 42, 8715-20	10.3	60
348	Failure of the ammonia oxidation process in two pharmaceutical wastewater treatment plants is linked to shifts in the bacterial communities. <i>Journal of Applied Microbiology</i> , 2005 , 99, 997-1006	4.7	60
347	Industrial Application of Biological Self-healing Concrete: Challenges and Economical Feasibility. <i>Journal of Commercial Biotechnology</i> , 2015 , 21,	2	60
346	Bioaugmentation of a 4-chloronitrobenzene contaminated soil with <i>Pseudomonas putida</i> ZWL73. <i>Environmental Pollution</i> , 2009 , 157, 763-71	9.3	59
345	Stereospecific effect of hexachlorocyclohexane on activity and structure of soil methanotrophic communities. <i>Environmental Microbiology</i> , 2005 , 7, 660-9	5.2	59
344	Microbiological, chemical and sensory spoilage analysis of raw Atlantic cod (<i>Gadus morhua</i>) stored under modified atmospheres. <i>Food Microbiology</i> , 2018 , 70, 232-244	6	58
343	<i>Butyricoccus pullicaecorum</i> , a butyrate producer with probiotic potential, is intrinsically tolerant to stomach and small intestine conditions. <i>Anaerobe</i> , 2014 , 30, 70-4	2.8	58

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340	A novel reductive dehalogenase, identified in a contaminated groundwater enrichment culture and in <i>Desulfitobacterium dichloroeliminans</i> strain DCA1, is linked to dehalogenation of 1,2-dichloroethane. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 2990-9	4.8	57
339	Effects of poly-Hydroxybutyrate (PHB) on Siberian sturgeon (<i>Acipenser baerii</i>) fingerlings performance and its gastrointestinal tract microbial community. <i>FEMS Microbiology Ecology</i> , 2012 , 79, 25-33	4.3	56
338	Removal of diatrizoate with catalytically active membranes incorporating microbially produced palladium nanoparticles. <i>Water Research</i> , 2010 , 44, 1498-506	12.5	55
337	Characterization of <i>Staphylococcus</i> and <i>Corynebacterium</i> clusters in the human axillary region. <i>PLoS ONE</i> , 2013 , 8, e70538	3.7	54
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327	Self-protected nitrate reducing culture for intrinsic repair of concrete cracks. <i>Frontiers in Microbiology</i> , 2015 , 6, 1228	5.7	50
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