# Valdis Krumins

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4482436/publications.pdf

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|---|---|---|---|
| 37 papers | 1,386 citations | 331538 21 h-index | 414303 32 g-index |
| 37 all docs | 37 docs citations | 37 times ranked | 1818 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dissolved inorganic carbon and alkalinity fluxes from coastal marine sediments: model estimates for different shelf environments and sensitivity to global change. Biogeosciences, 2013, 10, 371-398. | 1.3 | 142 |
| 2 | Response of Soil Microbial Communities to Elevated Antimony and Arsenic Contamination Indicates the Relationship between the Innate Microbiota and Contaminant Fractions. Environmental Science & Technology, 2017, 51, 9165-9175. | 4.6 | 133 |
| 3 | Bacterial Survival Strategies in an Alkaline Tailing Site and the Physiological Mechanisms of Dominant Phylotypes As Revealed by Metagenomic Analyses. Environmental Science & Technology, 2018, 52, 13370-13380. | 4.6 | 112 |
| 4 | Profiling microbial community in a watershed heavily contaminated by an active antimony (Sb) mine in Southwest China. Science of the Total Environment, 2016, 550, 297-308. | 3.9 | 104 |
| 5 | PCB dechlorination enhancement in Anacostia River sediment microcosms. Water Research, 2009, 43, 4549-4558. | 5.3 | 71 |
| 6 | Paddy soil microbial communities driven by environment- and microbe-microbe interactions: A case study of elevation-resolved microbial communities in a rice terrace. Science of the Total Environment, 2018, 612, 884-893. | 3.9 | 70 |
| 7 | Depth-resolved microbial community analyses in two contrasting soil cores contaminated by antimony and arsenic. Environmental Pollution, 2017, 221, 244-255. | 3.7 | 60 |
| 8 | Microbial diversity and community structure in an antimony-rich tailings dump. Applied Microbiology and Biotechnology, 2016, 100, 7751-7763. | 1.7 | 55 |
| 9 | The effect of co-substrate activation on indigenous and bioaugmented PCB dechlorinating bacterial communities in sediment microcosms. Applied Microbiology and Biotechnology, 2011, 89, 2005-2017. | 1.7 | 48 |
| 10 | Correlating microbial community profiles with geochemical conditions in a watershed heavily contaminated by an antimony tailing pond. Environmental Pollution, 2016, 215, 141-153. | 3.7 | 48 |
| 11 | Arsenic contamination influences microbial community structure and putative arsenic metabolism gene abundance in iron plaque on paddy rice root. Science of the Total Environment, 2019, 649, 405-412. | 3.9 | 48 |
| 12 | Rhizosphere Microbial Response to Multiple Metal(loid)s in Different Contaminated Arable Soils Indicates Crop-Specific Metal-Microbe Interactions. Applied and Environmental Microbiology, 2018, 84, . | 1.4 | 47 |
| 13 | Methane production from horse manure and stall waste with softwood bedding. Bioresource Technology, 2012, 112, 42-50. | 4.8 | 46 |
| 14 | Application of ATP bioluminescence method to characterize performance of bioaerosol sampling devices. Journal of Aerosol Science, 2009, 40, 113-121. | 1.8 | 43 |
| 15 | Characterization of the microbial community composition and the distribution of Fe-metabolizing bacteria in a creek contaminated by acid mine drainage. Applied Microbiology and Biotechnology, 2016, 100, 8523-8535. | 1.7 | 40 |
| 16 | Remediation of antimony-rich mine waters: Assessment of antimony removal and shifts in the microbial community of an onsite field-scale bioreactor. Environmental Pollution, 2016, 215, 213-222. | 3.7 | 37 |
| 17 | Substrate-Dependent rRNA Production in an Airborne Bacterium. Environmental Science and Technology Letters, 2014, 1, 376-381. | 3.9 | 36 |
| 18 | Part-day ozonation for nitrogen and organic carbon control in recirculating aquaculture systems. Aquacultural Engineering, 2001, 24, 231-241. | 1.4 | 34 |

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|---|---|---|---|
| 19 | A Combination of Stable Isotope Probing, Illumina Sequencing, and Co-occurrence Network to Investigate Thermophilic Acetate- and Lactate-Utilizing Bacteria. Microbial Ecology, 2018, 75, 113-122. | 1.4 | 32 |
| 20 | Comparative Analyses of the Microbial Communities Inhabiting Coal Mining Waste Dump and an Adjacent Acid Mine Drainage Creek. Microbial Ecology, 2019, 78, 651-664. | 1.4 | 29 |
| 21 | Microbial Dechlorination of Polychlorinated Biphenyls, Dibenzo-p-dioxins, and -furans at the Portland Harbor Superfund Site, Oregon, USA. Environmental Science & Technology, 2015, 49, 7227-7235. | 4.6 | 23 |
| 22 | Ozone's effects on power-law particle size distribution in recirculating aquaculture systems. Aquacultural Engineering, 2001, 25, 13-24. | 1.4 | 20 |
| 23 | Characterization of microbial and chemical composition of shuttle wet waste with permanent gas and volatile organic compound analyses. Advances in Space Research, 2004, 34, 1470-1476. | 1.2 | 18 |
| 24 | Analysis of airborne microbial communities using 16S ribosomal RNA: Potential bias due to air sampling stress. Science of the Total Environment, 2018, 621, 939-947. | 3.9 | 18 |
| 25 | Herbivory and Stoichiometric Feedbacks to Primary Production. PLoS ONE, 2015, 10, e0129775. | 1.1 | 16 |
| 26 | Fluid velocity distribution in nitrifying trickling filters: mathematical model and NMR calibration. Water Research, 2000, 34, 2337-2345. | 5.3 | 10 |
| 27 | Retention of Inactivated Bioaerosols and Ethene in a Rotating Bioreactor Constructed for Bioaerosol Activity Studies. Clean - Soil, Air, Water, 2008, 36, 593-600. | 0.7 | 9 |
| 28 | Using positive matrix factorization to investigate microbial dehalogenation of chlorinated benzenes in groundwater at a historically contaminated site. Chemosphere, 2018, 211, 515-523. | 4.2 | 8 |
| 29 | Effect of hydraulic retention time on inorganic nutrient recovery and biodegradable organics removal in a biofilm reactor treating plant biomass leachate. Bioresource Technology, 2002, 85, 243-248. | 4.8 | 6 |
| 30 | Sewer Sediment Bacterial Communities Suggest Potential to Transform Persistent Organic Pollutants. Water Environment Research, 2018, 90, 2022-2029. | 1.3 | 6 |
| 31 | Development of a dual-internal-reference technique to improve accuracy when determining bacterial 16S rRNA:16S rRNA gene ratio with application to Escherichia coli liquid and aerosol samples. Journal of Microbiological Methods, 2015, 117, 113-121. | 0.7 | 5 |
| 32 | Costs and Benefits of Bioreactors. , 2002, , . | | 4 |
| 33 | Bioprocessing to Recover Crop Nutrients from ALS Solid Wastes: A Two-Stage Solid-Liquid Separation System for Removal of Particulates from Bioreactor â€˜Brothâ€™. , 2001, , . | | 2 |
| 34 | The Effect of Microbial Growth on Feed Stability and Delivery in a Denitrifying Fixed Bed Reactor Designed for Space Flight to Recycle Graywater. , 2002, , . | | 2 |
| 35 | Identifying the Correct Biotransformation Model from Polychlorinated Biphenyl and Dioxin Dechlorination Batch Studies. Environmental Engineering Science, 2014, 31, 548-555. | 0.8 | 2 |
| 36 | Continuous Leaching (Bio)reactor. , 0, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Anaerobic Degradation of Aromatic Compounds. , 2015, , 5.1.3-1-5.1.3-14. | | 1 |