New insights on Winogradsky Columns: Simulation of Contaminated Subsurface Systems for Low Cost, Sustainable Bioremediation

By T. S. Amar Anand Rao

Grin Verlag Dez 2011, Taschenbuch. Book Condition: Neu. 210x148x5 mm. This item is printed on demand - Print on Demand Titel. - Scholarly Research Paper from the year 2011 in the subject Biology - Micro- and Molecular Biology, printed single-sided, grade: A, Indian Institute of Science, course: Microbial Ecology - bioremediation of contaminated subsurface systems, language: English, abstract: Everything is everywhere. The environment selects. Practical applications possible out of winogradsky column like using it as a universal enrichment medium for all microbes to grow as they are and also to isolate and evolve purpose based microbes for degradation studies. Nature is just a hidden Winogradsky column. Thus whatever mechanisms that underlies degradation in field is the same when simulated inside a winogradsky column. So we simulate all the constraints that face the degradation of hard substrates and the mechanisms inside this column to achieve results that can be immediately applied in field, without need of elaborate experimentation with artificial culture medium. 76 pp. Englisch.

Reviews

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Sustainability: Linking Spatial Patterns, Ecosystems Services, and Human Wellbeing Degradation and Sustainable Management of Land Design for Sustainability in the Minerals Sector Designing Sustainable Urban Soundscapes Development and Evaluation of Sustainable Bio-based Value Chains Development of Manufacturing Based on Sustainability Goals and Circular Economy Drinking Water Supply in Developing Countries Drivers and Impacts of Sustainable Household Energy Transitions in Low and Middle-Income Countries Drivers of Environmental Impacts from Agricultural Production Systems Dryland Ecosystems and Start by marking “New Insights on Winogradsky Columns: Simulation of Contaminated Subsurface Systems for Low Cost, Sustainable Bioremediation” as Want to Read: Want to Read saving… Want to Read. Currently Reading. Read. New Insights on Winogr by T S Amar Anand Rao. Other editions. 3 Sustainable Agricultural Systems Laboratory, Agricultural Research Service, United States Department of Agriculture (USDA-ARS), Beltsville, MD, United States. 4 Center for Agricultural Resources Research, Agricultural Research Service, United States Department of Agriculture (USDA-ARS), Fort Collins, CO, United States. Eventually, a system based on these new technologies will be needed for mass transfer of genomic and other genetic data for the development of these advanced crop cultivars, for the management of agronomic data, and for the development of these next-generation production systems. Consider the Denitrification and Decomposition (DNDC) model used in the simulation of Sustainable consumption is the use of material products, energy and immaterial services in such a way that their use minimizes impacts on the environment, such that human values can be met not only in the present but also for future generations. Consumption refers not only to individuals and households, but also to governments, business, and other institutions. Sustainable consumption is closely related to sustainable production and sustainable lifestyles. A sustainable The Winogradsky column is a classic demonstration of the metabolic diversity of prokaryotes. All life on earth can be categorised in terms of the organism's carbon and energy source: energy can be obtained from light reactions (phototrophs) or from chemical oxidations (of organic or inorganic substances) (chemotrophs); the carbon for cellular synthesis can be obtained from CO2 (autotrophs) or from preformed organic compounds (heterotrophs). T.S. Amar Anand Rao (Author), 2011, New insights on Winogradsky Columns: Simulation of Contaminated Subsurface Systems for Low Cost, Sustainable Bioremediation, Munich, GRIN Verlag, https://www.grin.com/document/184354.