

*Advances In Agronomy Volume 81*







### **Advances In Agronomy Volume 81**

Highlights Rapid advances in remote sensing for precision agriculture have occurred. Satellite imagery has improved in spatial resolution, return visit frequency and spectral resolution. Aerial hyperspectral imagery has revolutionized precision agriculture. Ground based sensors have been developed for on-the-go monitoring of crop and soil characteristics. The future challenge is to develop ...

### **Special Issue: Sensing in Agriculture - ScienceDirect.com**

Oil palm, currently the world's main vegetable oil crop, is characterised by a large productivity and a long life span ( $\geq 25$  years). Peak oil yields of 12 t ha<sup>-1</sup> yr<sup>-1</sup> have been achieved in small plantations, and maximum theoretical yields as calculated with simulation models are 18.5 t oil ha<sup>-1</sup> yr<sup>-1</sup>, yet average productivity worldwide has stagnated around 3 t oil ha<sup>-1</sup> yr<sup>-1</sup>.

### **Yield gaps in oil palm: A quantitative review of ...**

Tissue culture is the in vitro aseptic culture of cells, tissues, organs or whole plant under controlled nutritional and environmental conditions [1] often to produce the clones of plants. The resultant clones are true-to type of the selected genotype. The controlled conditions provide the culture ...

### **Plant Tissue Culture: Current Status and Opportunities ...**

The Author. Kathleen Draper is the US Director of the Ithaka Institute. The Ithaka Institute for Carbon Intelligence, which was founded in Valais, Switzerland, with its American branch in an office in Rochester, NY, is dedicated to research, education, and consulting related to closed loop biochar solutions which can be implemented in both the developing and developed world.

### **tBJ:Waste water treatment and biochar**

Humic substances are organic compounds that are important components of humus, the major organic fraction of soil, peat, and coal (and also a constituent of many upland streams, dystrophic lakes, and ocean water). For a long era in the 19th and 20th centuries, humic substances were often viewed through a lens of acid-base theory that described humic acids, as organic acids, and their ...

### **Humic substance - Wikipedia**

Pastoral farming (also known in some regions as ranching, livestock farming or grazing) is a form of agriculture aimed at producing livestock, rather than growing crops. Examples include dairy farming, raising beef cattle, and raising sheep for wool. In contrast, arable farming concentrates on crops rather than livestock. Finally, Mixed farming incorporates livestock and crops on a single farm.

### **Pastoral farming - Wikipedia**

REVIEW . Agricultural use of treated sewage effluents: agronomic and environmental implications and perspectives for Brazil . Uso agrícola dos efluentes de tratamento de esgoto: implicações agrônomo-ambientais e perspectivas para o Brasil

### **Agricultural use of treated sewage effluents: agronomic ...**

Bioengineering, an international, peer-reviewed Open Access journal. Haloarchaea, the extremely halophilic branch of the Archaea domain, encompass a steadily increasing number of genera and associated species which accumulate polyhydroxyalkanoate biopolyesters in their cytoplasm.

### **Bioengineering | An Open Access Journal from MDPI**

2. Controlled Delivery of Agrochemicals by Polymeric Matrices. An important point in agriculture is to supply nutritional needs of plants, which ranges from macronutrients such as N, P, K, Ca, Mg and S to micronutrients such as B, Cl, Co, Cu, Fe, Mn, Mo, Ni and Zn [9]. However, these nutrients are often not available in the environment at sufficient levels for good plant growth.

### **Polymers and its applications in agriculture - SciELO**

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