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Research Articles

1.

Impact of Climate Change on the Phenology of Alpine Plant Species

Naomi Tanaka, Carlos Mendes, Amina El-Amrani, Lian Wang, Viktor Rossi, Ingrid Ouedraogo, Anna Zhou

Keywords: climate change; phenology; alpine plants; biodiversity; ecosystem dynamics

2.

Impact of Urbanization on Pollinator Diversity in Metropolitan Ecosystems

Anika Patel, Carlos Mendes, Mei-Ling Chen, Yusuf Al-Hassan, Emma Mensah, Hans Zhou, Lei López

Keywords: urbanization; pollinator diversity; metropolitan ecosystems; biodiversity conservation; urban planning; floral resources

3.

Mathematical Modelling and Analysis of Temperature Effects in NEMS based Bi-Metallic Cantilever for Molecular Bio-sensing Applications

Hans Meyer, Taro Nakamura, Nana Bondarenko, Andriy Laurent, Taro Nakamura, Nana Bondarenko, Andriy Laurent

Keywords: NEMS; biosensors; bi-metallic cantilevers; temperature effects; mathematical modeling; Lab-on-Chip; finite element analysis

4.

Study of Pathogenicity Factors and In Vitro Amplification of Acute Pulmonary Infections Associated *lasR* Gene in *Pseudomonas aeruginosa*

, Louis Schulz