VNU JOURNAL OF SCIENCE
Earth and Environmental Sciences
Vol. 40, No. 4, 2024

CONTENTS

Original Articles

1. **Trinh Tuan Long, Phan Van Tan, Pham Quang Nam, Pham Thanh Ha, Tran Anh Quan, Nguyen Xuan Thanh,** Application of the Standardized Precipitation Index for Forecasting Seasonal Drought in Vietnam 1

2. **Tran Thi Tuyet Thu, Le Ngoc Hieu, Le Nhat Ha, Ngo Hong Anh Thu, Pham Minh Ha,** Impacts of Vetiver Grass and DT2008 Soybean Cov Crop Practices on Soil Quality in Citrus Orchards in Cao Phong, Hoa Binh 15

3. **Dinh Xuan Thanh, Nguyen Thuy Duong, Nguyen Van Huong, Nguyen Dinh Thai, Tran Thi Dung, Nguyen Hong Quan,** Assessment of Sediment Quality of Some Heavy Metals in the Con Lu Bay Area, Giao Thuy District, Nam Dinh Province 26

4. **Ngo Tho Hung, Trinh Tuan Long, Nguyen Kim Ngoc Anh, Tran Thi Hong Nhung, Nguyen Thi Hong Ngoc, Tran Anh Quan, Pho Thanh Van, Do Van Phuong,** Impact of Climate Change and Natural Disasters on Livelihoods in Northern Mountainous Regions of Vietnam: A View from Dien Bien Province 43

5. **Nguyen Thien Phuong Thao, Do Huu Toan, Nguyen Thi Thu Ha, Pham Quang Vinh, Ha Cong Tien, Tran Minh Tung, Tran Thi Hien,** Modeling Spatial Distribution of Suspended Sediments in Hoa Binh Reservoir Using Sentinel-2 Image and Co-Kriging 56

6. **Duong Tuan Manh, Le Xuan Thanh Thao, Huynh Duc Long, Thai Thi Linh, Do Van Manh,** Presence of Microplastic in Bottom Sediments of the Bach Hac River in Phu Tho Province, Vietnam 66

7. **Ta Le Dang Khoi, Nguyen Thi Thanh Hoai, Nguyen Lai Thanh, Pham Xuan Nui, Do Thi Hai, Tran Thi Thanh Thuy, Nguyen Mai Hoa, Pham Thi Thanh Hai, Tran Thi Thu Huong,** Initial Assessment the Effects of Polyethylene Microplastics on the Growth of Zebrafish Embryos *Danio rerio* 73

8. **Dang Trung Thanh, Nguyen Minh Ty, Nguyen Huynh Anh Tuyet,** Using Aquaculture Waste Sludge and Agricultural By-products to Produce Organic Fertilizer 80

9. **Duong Thi Thanh Xuyen, Luong Huu Thanh, Vu Thuy Nga, Nguyen Ngoc Quynh, Dam Trong Anh, Nguyen Thanh Lam, Nguyen Kieu Bang Tam,** Potential Use of Microbial Product to Degrade Chlorpyrifos in Tea Cultivation Soil 88

10. **Le Van Quyen, Luc Anh Tuan, Doan Van Binh,** Predict the Riverbank Erosion Susceptibility for the Ham Luong River Using the Logistic Regression Model 97

11. **Nguyen Le Tan Dat, Tu Minh Hai,** Application of WebGIS in Managing and Monitoring Greenery in Schools: A Case Study at the Thu Dau Mot University 105