

Earth Technology and Engineering

- 165 Raghav RAMANATHAN, Ahmet H. AYDILEK, Burak F. TANYU**
Development of a GIS-based failure investigation system for highway soil slopes
- 179 Wei WANG, Xinfeng YAO, Minhe JI, Jiao ZHANG**
Spectral data treatments for impervious endmember derivation and fraction mapping from Landsat ETM+ imagery: a comparative analysis
- 192 Yi YU, Weimin ZHANG, Zhongyuan WU, Xiaofeng YANG, Xiaoqun CAO, Mengbin ZHU**
Assimilation of HY-2A scatterometer sea surface wind data in a 3DVAR data assimilation system—A case study of Typhoon Bolaven
- 202 Zifei WANG, Qiuyang LI, Liang SUN, Song LI, Yuanjian YANG, Shanshan LIU**
The most typical shape of oceanic mesoscale eddies from global satellite sea level observations
- 209 Xinwen LI, Yongming SHEN**
Numerical simulation of the impacts of water level variation on water age in Dahuofang Reservoir
- 225 Hongjun SU, Yehua SHENG, Peijun DU, Chen CHEN, Kui LIU**
Hyperspectral image classification based on volumetric texture and dimensionality reduction
- 237 Teng LI, Yan BAI, Gang LI, Xianqiang HE, Chen-Tung Arthur CHEN, Kunshan GAO, Dong LIU**
Effects of ultraviolet radiation on marine primary production with reference to satellite remote sensing

Environmental Geosciences

- 248 **Hongxia LIU, Ying HU, Shihua QI, Xinli XING, Yuan ZHANG, Dan YANG, Chengkai QU**
Organochlorine pesticide residues in surface water from Sichuan Basin to Aba Prefecture profile, east of the Tibetan Plateau
- 259 **Yan YU, Jie LIU, Chunmeng LIU, Shuang ZONG, Zhaohua LU**
Effect of organic materials on the chemical properties of saline soil in the Yellow River Delta of China
- 268 **Djakanibé Désiré TRAORÉ, Yansheng GU, Humei LIU, Ceven SHEMSANGA, Jiwen GE**
Vegetation types and climate conditions reflected by the modern phytolith assemblages in the subalpine Dalaoling Forest Reserve, central China

Earth Surface Processes

- 276 **Qin NIE, Jianhua XU**
Understanding the effects of the impervious surfaces pattern on land surface temperature in an urban area
- 286 **Liang ZHANG, Dexiang LI, Justin EZEKIEL, Weidong ZHANG, Honggang MI, Shaoran REN**
CO₂ geological storage into a lateral aquifer of an offshore gas field in the South China Sea: storage safety and project design
- 300 **Yuexia ZHANG, Jing GUO, Zhumei CHE**
Discussion on evaluating the vulnerability of storm surge hazard bearing bodies in the coastal areas of Wenzhou

Geological Resources and Hazards

- 308 **Haiguang HAO, Xiubin LI, Minghong TAN, Jiping ZHANG, Huiyuan ZHANG**
Agricultural land use intensity and its determinants: a case study in Taibus Banner, Inner Mongolia, China
- 319 **Kun TAN, Songyang ZHOU, Erzhu LI, Peijun DU**
Assessing the impact of urbanization on net primary productivity using multi-scale remote sensing data: a case study of Xuzhou, China
- 330 **Zhanqiang CHANG, Jinzhuang WANG, Mi CHEN, Zurui AO, Qi YAO**
A novel ground surface subsidence prediction model for sub-critical mining in the geological condition of a thick alluvium layer
- 342 **Yue LIU, Qiuming CHENG, Qinglin XIA, Xinqing WANG**
The use of evidential belief functions for mineral potential mapping in the Nanling belt, South China
- 355 **Lei JIANG, Minhe JI, Ling BAI**
Characterizing China's energy consumption with selective economic factors and energy-resource endowment: a spatial econometric approach