

**CONTENTS**

(Abstracted/Indexed in: AGI's Bibliography and Index of Geology; Biological Abstracts; Biosis; Bulletin Signalétique; Chemical Abstracts/CAS; Current Contents/Agriculture, Biology & Environmental Sciences; Elsevier BIOBASE/Current Awareness in Biological Sciences; Environmental Periodicals Bibliography; Embiology; GEOBASE; Irrigation, Drainage Abstracts; PASCAL; Science Citation Index; SciSearch; Soils and Fertilizers). Also covered in the abstract and citation database Scopus®.
Full text available on ScienceDirect®.

Special Issue: Soil mapping, classification, and modelling: history and future directions

Edited by: E. Brevik, A. Baumgarten, C. Calzolari, B. Miller, A. Jordán, P. Pereira and C. Kabala

Editorial: Historical perspectives and future needs in soil mapping, classification, and pedologic modeling

E.C. Brevik, A. Baumgarten, C. Calzolari, A. Jordán, C. Kabala, B.A. Miller and P. Pereira 253

Soil mapping, classification, and pedologic modeling: History and future directions

E.C. Brevik, C. Calzolari, B.A. Miller, P. Pereira, C. Kabala, A. Baumgarten and A. Jordán 256

Evolution of key concepts in modern pedology with reference to Italian soil survey history

C. Calzolari and N. Filippi 275

History of soil geography in the context of scale

B.A. Miller and R.J. Schaetzl 284

Digital soil mapping: A brief history and some lessons

B. Minasny and Alex.B. McBratney 301

Soil classification and mapping in the Alps: The current state and future challenges

J. Baruck, O. Nestroy, G. Sartori, D. Baize, R. Traidl, B. Vrščaj, E. Bräm, F.E. Gruber, K. Heinrich and C. Geitner 312

Mind the gap: A classification system for integrating the subsolum into soil surveys

J. Juilleret, S. Dondeyne, K. Vancampenhout, J. Deckers and C. Hissler 332

Testing the pedometric evaluation of taxonomic units on soil taxonomy — A step in advancing towards a universal soil classification system

E. Michéli, V. Láng, P.R. Owens, A. McBratney and J. Hempel 340

Combining digital soil mapping and hydrological modeling in a data scarce watershed in north-central Portugal

F. Tavares Wahren, S. Julich, J.P. Nunes, O. Gonzalez-Pelayo, D. Hawtree, K.-H. Feger and J.J. Keizer 350

Mass fluxes and clay mineral formation in soils developed on slope deposits of the Kowarski Grzbiet (Karkonosze Mountains, Czech Republic/Poland)

J. Waroszewski, M. Egli, C. Kabala, J. Kierczak and D. Brandova 363

Soil function evaluation in Austria — Development, concepts and examples

H.-P. Haslmayr, C. Geitner, G. Sutor, A. Knoll and A. Baumgarten 379