



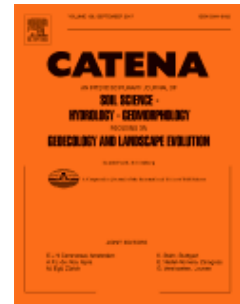
CATENA

An Interdisciplinary Journal of Soil Science - Hydrology - Geomorphology focusing on
Geocology and Landscape Evolution

AUTHOR INFORMATION PACK

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DESCRIPTION

Catena publishes papers describing original field and laboratory investigations and reviews on **geocology** and **landscape evolution** with emphasis on interdisciplinary aspects of **soil science**, **hydrology** and **geomorphology**. It aims to disseminate new knowledge and foster better understanding of the physical environment, of evolutionary sequences that have resulted in past and current landscapes, and of the natural processes that are likely to determine the fate of our terrestrial environment.

Papers within any one of the above topics are welcome provided they are of sufficiently wide interest and relevance.

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Soil Scientists, Hydrologists, Geomorphologists.

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Hydrology & water resources modelling, soil erosion modelling, policy relevant research.

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soil formation and evolution (incl. soil organic matter); soils in time and space; weathering (mechanisms and rates); clay mineralogy; landscape evolution, geomorphic processes, dating (radiocarbon, ^{10}Be)

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hydrology, erosion, badlands, land use changes, sediment transport

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Geomorphology; fluvial, glacial, and hillslope erosion processes; landscape evolution modeling; geochronology.

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soil erosion modelling, geomorphology, landscape evolution modelling and land degradation

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palaeoflood hydrology; palaeohydrology; fluvial geomorphology

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Geomorphology; River science; River management; Hillslope processes; River processes; Environmental management

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geomorphic hazards, interactions between human activity and geomorphic processes, global geomorphic change, land-use assessment and planning, environmental quality indicators.

S.M. de Jong, Utrecht University, Utrecht, Netherlands
Remote Sensing; Imaging Spectrometry; Land degradation & hydrology; Soil erosion; Natural vegetation; Spatial statistics

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badlands, water erosion, geomorphological hazard, geomorphic markers, geostatistics, morpho-evolutionary models

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soil formation, land-use change, geoarchaeology, paleosoils

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Soil erosion; Soil redistribution processes; Fallout radionuclides (Cs137, Pb210, Be7); Sediment tracing; Fingerprinting techniques; Source of fine sediments; Soil degradation

J.B.J. Harrison, New Mexico Institute of Mining and Technology, Socorro, New Mexico, USA
soils; soil landscapes; soil geomorphology; geomorphic processes

A.E. Hartemink, University of Wisconsin at Madison, Madison, Wisconsin, USA
digital soil mapping; tropical soils; pedology; soil fertility

J. Hooke, University of Liverpool, Liverpool, UK
Geomorphology; Rivers; Coasts; Erosion: Coastal and fluvial management; Floods; Sediment

C. Kabala, Wrocław University of Environmental and Life Sciences, Wrocław, Poland
soil origin and transformation, mountain soils, soils of polar/subpolar regions, soils of boreal regions, soil contamination, human impact on soils, soil classification (including WRB and Soil Taxonomy)

P.I.A. Kinnell, University of Canberra, Canberra, Australian Capital Territory, Australia

J. Latron, IDAEA-CSIC, Barcelona, Spain
Hydrological response of small catchments (0-10 km²): Hydrological monitoring, rainfall-runoff relationships, runoff generation processes, Modeling. Sediment dynamics in small catchments (0-10km²): Erosion, Sediment transport, Sediment budgets.

T. Lei, China Agricultural University, Beijing, China
hydrology; instrumentation; sediment measurement; soil erosion; soil physics

B. Liu, Beijing Normal University, Beijing, China

A. Mirabella
Soil evolution and weathering processes; clay minerals characteristics and transformation; soil organic matter (humic and fulvic acids) characterization.

T. Oguchi, University of Tokyo, Kashiwa, Japan
Hillslope and fluvial geomorphology, GIS

Y. Onda, University of Tsukuba, Tsukuba, Ibaraki, Japan

Y.A. Pachepsky, Hydrology and Remote Sensing Lab., Beltsville, Maryland, USA
for geoderma: artificial intelligence, artificial neural networks, regression tree, genetic algorithm, pedotransfer function, soil hydraulic properties, soil water flow, solute transport, spatial variability, soil pore space, soil structure, fate and transport of microorganisms, crop simulation.

X. Peng, Chinese Academy of Sciences (CAS), Nanjing, China
soil structure; aggregation; carbon sequestration; soil hydrology; soil shrinkage

J. Poulénard, Université Savoie Mont Blanc, Le Bourget du Lac, France
Mountain soil and Volcanic soil Sediments sources and Erosion Paleopedology and paleoenvironments

K. Pustovoytov, Universität Hohenheim, Stuttgart, Germany
paleopedology, geoarchaeology, soil chronosequences, pedogenic carbonate, radiocarbon dating, stable isotopes

D.G. Rossiter, Cornell University, Ithaca, New York, USA

soil geography; soil survey; land suitability evaluation; geostatistics applied to soil and related sciences; urban soils; Caribbean and northern Latin America including Brazil, northeast and southeast USA, northeast Canada, central and north China, Philippines, Thailand, Indonesia, Cameroon, Mozambique, India

G. Stoops, Universiteit Gent, Gent, Belgium

soil micromorphology, soil mineralogy, weathering and laterites.

D. Torri, C.N.R., Firenze, Italy

soil erosion, raindrop detachment, raindrop transport, runoff detachment, runoff transport capacity, rill erosion, gully erosion; rill and gully channel geometry, soil erodibility, soil shear strength, soil cohesion, soil surface roughness hydraulics friction, vegetation-soil interaction, vegetation effects on soil erosion, biodiversity badlands

C. Valentin, IRD - Ambassade de France au Laos, Paris, France

Soil surface crust; Runoff production; Catchment hydrology; Soil erosion; Southeast Asia; West Africa: savannah and Sahelian zones

B. van Wesemael, Université Catholique de Louvain, Louvain-la-Neuve, Belgium

Vis NIR spectroscopy, soil organic matter and digital soil mapping

D.E. Walling, University of Exeter, Penryn, Cornwall, UK

R. Webster, IACR-Rothamsted Experimental Station, Harpenden, UK

Soil science; soil survey; environmental science more generally; geostatistics; statistics more generally.

X. P. Yang, Zhejiang University, Hangzhou, China

Geomorphology; quaternary geology; climate change; desertification; arid landscape, desert

GUIDE FOR AUTHORS

INTRODUCTION

CATENA publishes original contributions in the fields of:

Geoecology, the geoscientific-hydro-climatological subset of process-oriented studies of the present ecosystem

- the total environment of landscapes and sites
- the flux of energy and matter (water, solutes, suspended matter, bed load) with special regard to space-time variability
- the changes in the present ecosystem, including the earth's surface and

Landscape Evolution, the genesis of the present ecosystem, in particular the genesis of its structure concerning soils, sediment, relief, their spatial organization and analysis in terms of paleoprocesses;

- soils: surface, relief and fossil soils, their spatial organization pertaining to relief development
- sediment with relevance to landscape evolution, the paleohydrologic environment with respect to surface runoff, competence, and capacity for transport of bed material and suspended matter, infiltration, groundwater and channel flow
- the earth's surface, relief elements and their spatial-hierarchical organization in relation to soils and sediment
- the paleoclimatological properties of the sequence of paleoenvironments.

Types of paper

CATENA publishes multidisciplinary studies as well as monodisciplinary papers that are of interest to other disciplines and are of relevance to landscape studies.

1. Original research papers (Regular Papers)
2. Review articles
3. Technical Notes

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Strunk Jr., W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.

Reference to a website:

Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13.03.03).

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