Michael Maerker

List of Publications by Year
in descending order

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88 papers	4,601 citations	172457 29 h-index	102487 66 g-index
93 all docs	93 docs citations	93 times ranked	5334 citing authors

#	Article	IF	Citations
1	Future long-term changes in global water resources driven by socio-economic and climatic changes. Hydrological Sciences Journal, 2007, 52, 247-275.	2.6	706
2	Soil organic carbon concentrations and stocks on Barro Colorado Island â€" Digital soil mapping using Random Forests analysis. Geoderma, 2008, 146, 102-113.	5.1	511
3	Scenarios of freshwater fish extinctions from climate change and water withdrawal. Global Change Biology, 2005, 11, 1557-1564.	9.5	394
4	Gully erosion susceptibility assessment by means of GIS-based logistic regression: A case of Sicily (Italy). Geomorphology, 2014, 204, 399-411.	2.6	265
5	Soil erosion modelling: A global review and statistical analysis. Science of the Total Environment, 2021, 780, 146494.	8.0	261
6	How can statistical models help to determine driving factors of landslides?. Ecological Modelling, 2012, 239, 27-39.	2.5	258
7	Binary logistic regression versus stochastic gradient boosted decision trees in assessing landslide susceptibility for multiple-occurring landslide events: application to the 2009 storm event in Messina (Sicily, southern Italy). Natural Hazards, 2015, 79, 1621-1648.	3.4	149
8	Spatio-temporal topsoil organic carbon mapping of a semi-arid Mediterranean region: The role of land use, soil texture, topographic indices and the influence of remote sensing data to modelling. Science of the Total Environment, 2017, 601-602, 821-832.	8.0	122
9	Measuring, modelling and managing gully erosion at large scales: A state of the art. Earth-Science Reviews, 2021, 218, 103637.	9.1	111
10	A GIS-based approach for gully erosion susceptibility modelling: a test in Sicily, Italy. Environmental Earth Sciences, 2013, 70, 1179-1195.	2.7	99
11	Modelling Postâ€Treeâ€Harvesting Soil Erosion and Sediment Deposition Potential in the Turano River Basin (Italian Central Apennine). Land Degradation and Development, 2015, 26, 356-366.	3.9	92
12	An integrated assessment of soil erosion dynamics with special emphasis on gully erosion in the Mazayjan basin, southwestern Iran. Natural Hazards, 2015, 79, 25-50.	3.4	85
13	Modeling soil erosion and river sediment yield for an intermountain drainage basin of the Central Apennines, Italy. Catena, 2014, 114, 45-58.	5.0	80
14	Soil erosion modelling: A bibliometric analysis. Environmental Research, 2021, 197, 111087.	7.5	78
15	A test of transferability for landslides susceptibility models under extreme climatic events: application to the Messina 2009 disaster. Natural Hazards, 2014, 74, 1951-1989.	3.4	67
16	Assessment of land degradation susceptibility by scenario analysis: A case study in Southern Tuscany, Italy. Geomorphology, 2008, 93, 120-129.	2.6	66
17	A functional entity approach to predict soil erosion processes in a small Plio-Pleistocene Mediterranean catchment in Northern Chianti, Italy. Geomorphology, 2011, 125, 530-540.	2.6	66
18	Gully erosion modelling and landscape response in the Mbuluzi River catchment of Swaziland. Catena, 2003, 50, 507-525.	5.0	58

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19	Water erosion susceptibility mapping by applying Stochastic Gradient Treeboost to the Imera Meridionale River Basin (Sicily, Italy). Geomorphology, 2016, 262, 61-76.	2.6	58
20	Assessment of the impacts of clear-cutting on soil loss by water erosion in Italian forests: First comprehensive monitoring and modelling approach. Catena, 2017, 149, 770-781.	5.0	57
21	Exploiting Maximum Entropy method and ASTER data for assessing debris flow and debris slide susceptibility for the Giampilieri catchment (northâ€eastern Sicily, Italy). Earth Surface Processes and Landforms, 2016, 41, 1776-1789.	2.5	52
22	Simulation of soil erosion and deposition in a changing land use: A modelling approach to implement the support practice factor. Geomorphology, 2008, 99, 329-340.	2.6	48
23	Modelling the topsoil carbon stock of agricultural lands with the Stochastic Gradient Treeboost in a semi-arid Mediterranean region. Geoderma, 2017, 286, 35-45.	5.1	48
24	Increasing Behavioral Flexibility? An Integrative Macro-Scale Approach to Understanding the Middle Stone Age of Southern Africa. Journal of Archaeological Method and Theory, 2016, 23, 623-668.	3.0	45
25	Integrating geographical information systems, remote sensing, ground truthing and modelling approaches for regional erosion classification of semi-arid catchments in South Africa. Hydrological Processes, 2003, 17, 929-942.	2.6	42
26	The Delineation of Paleo-Shorelines in the Lake Manyara Basin Using TerraSAR-X Data. Remote Sensing, 2014, 6, 2195-2212.	4.0	35
27	Impact of soil surface and subsurface properties on soil saturated hydraulic conductivity in the semi-arid Walnut Gulch Experimental Watershed, Arizona, USA. Geoderma, 2018, 322, 112-120.	5.1	33
28	Reconstructing the Roman topography and environmental features of the Sarno River Plain (Italy) before the AD 79 eruption of Sommaâ€“Vesuvius. Geomorphology, 2010, 115, 67-77.	2.6	32
29	From a stratigraphic sequence to a landscape evolution model: Late Pleistocene and Holocene volcanism, soil formation and land use in the shade of Mount Vesuvius (Italy). Quaternary International, 2016, 394, 155-179.	1.5	31
30	Effects of vineyard soil management on the characteristics of soils and roots in the lower OltrepÃ² Apennines (Lombardy, Italy). Science of the Total Environment, 2019, 693, 133390.	8.0	31
31	New pedotransfer approaches to predict soil bulk density using WoSIS soil data and environmental covariates in Mediterranean agro-ecosystems. Science of the Total Environment, 2021, 780, 146609.	8.0	29
32	A TOOLBOX FOR SEDIMENT BUDGET RESEARCH IN SMALL CATCHMENTS. Geography, Environment, Sustainability, 2017, 10, 43-68.	1.3	28
33	Morphotectonic interpretation of the Makuyuni catchment in Northern Tanzania using DEM and SAR data. Geomorphology, 2015, 248, 427-439.	2.6	26
34	A Probabilistic Assessment of Soil Erosion Susceptibility in a Head Catchment of the Jemma Basin, Ethiopian Highlands. Geosciences (Switzerland), 2020, 10, 248.	2.2	26
35	Channel planform changes along the Scrivia River floodplain reach in northwest Italy from 1878 to 2016. Quaternary Research, 2019, 91, 620-637.	1.7	24
36	Assessment of soil erosion risk in a typical Mediterranean environment using a high resolution RUSLE approach (Portofino promontory, NW-Italy). Journal of Maps, 2019, 15, 356-362.	2.0	23

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37	The role of soil-protecting forests in reducing soil erosion in young glacial landscapes of Northern-Central Poland. Geoderma, 2019, 337, 1227-1235.	5.1	23
38	Monitoring gully erosion in the European Union: A novel approach based on the Land Use/Cover Area frame survey (LUCAS). International Soil and Water Conservation Research, 2022, 10, 17-28.	6.5	23
39	Revised modelling of the post-AD 79 volcanic deposits of Somma-Vesuvius to reconstruct the pre-AD 79 topography of the Sarno River plain (Italy). Geologica Carpathica, 2011, 62, 5-16.	0.7	22
40	A simple DEM assessment procedure for gully system analysis in the Lake Manyara area, northern Tanzania. Natural Hazards, 2015, 79, 235-253.	3.4	22
41	Delineation of erosion classes in semi-arid southern African grasslands using vegetation indices from optical remote sensing data. Hydrological Processes, 2003, 17, 917-928.	2.6	18
42	Identification, characterisation and analysis of the Oltrepo Pavese calanchi in the Northern Apennines (Italy). Geomorphology, 2019, 340, 53-66.	2.6	18
43	Assessment of calanchi and rill-interrill erosion susceptibility in northern Liguria, Italy: A case study using a probabilistic modelling framework. Geoderma, 2020, 371, 114367.	5.1	18
44	Multisensoral Topsoil Mapping in the Semiarid Lake Manyara Region, Northern Tanzania. Remote Sensing, 2015, 7, 9563-9586.	4.0	17
45	Characterization of the pre-AD 79 Roman paleosol south of Pompeii (Italy): Correlation between soil parameter values and paleo-topography. Geoderma, 2011, 160, 548-558.	5.1	15
46	Assessment of Siltation Processes of the Koronowski Reservoir in the Northern Polish Lowland Based on Bathymetry and Empirical Formulas. Water (Switzerland), 2018, 10, 1681.	2.7	15
47	Assessment of the Dnieper Alluvial Riverbed Stability Affected by Intervention Discharge Downstream of Kaniv Dam. Water (Switzerland), 2020, 12, 1104.	2.7	14
48	Short-Term GIS Analysis for the Assessment of the Recent Active-Channel Planform Adjustments in a Widening, Highly Altered River: The Scrivia River, Italy. Water (Switzerland), 2020, 12, 514.	2.7	14
49	Vergleich von SVM und Boosted Regression Trees zur Abgrenzung von lakustrinen Sedimenten anhand von multispektralen ASTER Daten und topographischen Parametern im Einzugsgebiet des Manyara Sees. Photogrammetrie, Fernerkundung, Geoinformation, 2015, 2015, 81-94.	1.2	13
50	Comparative analysis of Edge Detection techniques for SAR images. European Journal of Remote Sensing, 2016, 49, 205-224.	3.5	13
51	Surface Water Quality Analysis Using CORINE Data: An Application to Assess Reservoirs in Poland. Remote Sensing, 2020, 12, 979.	4.0	13
52	Evaluation of Gully Erosion Susceptibility Using a Maximum Entropy Model in the Upper Mkhomazi River Basin in South Africa. ISPRS International Journal of Geo-Information, 2021, 10, 729.	2.9	13
53	Geomorphological processes, forms and features in the surroundings of the Melka Kunture Palaeolithic site, Ethiopia. Journal of Maps, 2019, 15, 797-806.	2.0	12
54	Biotic controls on shallow translational landslides. Earth Surface Processes and Landforms, 2013, 38, 198-212.	2.5	11

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55	Assessment of calanchi and rillâ€“interrill erosion susceptibilities using terrain analysis and geostochastics: A case study in the Oltrepo Pavese, Northern Apennines, Italy. Earth Surface Processes and Landforms, 2020, 45, 3025-3041.	2.5	11
56	â€˜The stolen spaceâ€™: A history of channelization, reduction of riverine areas and related management issues. The lower Scrivia River case study (NW Italy). International Journal of Sustainable Development and Planning, 2019, 14, 118-129.	0.7	11
57	The Ancient Rural Settlement Structure in the Hinterland of Pompeii Inferred from Spatial Analysis and Predictive Modeling of Villae Rusticae. Geoarchaeology - an International Journal, 2016, 31, 121-139.	1.5	9
58	Comparison of Topsoil Organic Carbon Stocks on Slopes under Soil-Protecting Forests in Relation to the Adjacent Agricultural Slopes. Forests, 2021, 12, 390.	2.1	9
59	The role of culture in early expansions of humans â€“ A new research center. Quaternary International, 2010, 223-224, 429-430.	1.5	8
60	Sediment transport in headwaters of a volcanic catchmentâ€”Kamchatka Peninsula case study. Frontiers of Earth Science, 2017, 11, 565-578.	2.1	8
61	Assessment of hydro-geomorphological hazard potentials in the Chilean semiarid coastal range and its impacts on La Serena city, Coquimbo Region. Natural Hazards, 2017, 88, 431-452.	3.4	8
62	Assessment of suspended sediment dynamics in a small ungauged badland catchment in the Northern Apennines (Italy) using an in-situ laser diffraction method. Catena, 2022, 209, 105796.	5.0	8
63	Impacto en la geodinÃ¡mica actual del valle de Nantoco, cuenca del rÃo CopiapÃ³, asociado a la reconversiÃ³n productiva. Revista De Geografia Norte Grande, 2009, , 81-99.	0.2	7
64	Modeling the spatial distribution of AD 79 pumice fallout and pyroclastic density current and derived deposits of Somma-Vesuvius (Campania, Italy) integrating primary deposition and secondary redistribution. Bulletin of Volcanology, 2013, 75, 1.	3.0	7
65	Litho-structure of the Oltrepo Pavese, Northern Apennines (Italy). Journal of Maps, 2019, 15, 382-392.	2.0	7
66	Acheulean Sites at Makuyuni (Lake Manyara, Tanzania): Results of Archaeological Fieldwork and Classification of the Lithic Assemblages. African Archaeological Review, 2018, 35, 87-106.	1.4	6
67	State of the Art in Paleoenvironment Mapping for Modeling Applications in Archeologyâ€”Summary, Conclusions, and Future Directions from the PaleoMaps Workshop. Quaternary, 2020, 3, 13.	2.0	6
68	Viticulture in the Laetanian Region (Spain) during the Roman Period: Predictive Modelling and Geomatic Analysis. Geosciences (Switzerland), 2020, 10, 206.	2.2	6
69	Assessment of flash floods in a small Mediterranean catchment using terrain analysis and remotely sensed data: a case study in the Torrente Teiro, Liguria, Italy. Zeitschrift FÃ¼r Geomorphologie, 2017, 61, 137-163.	0.8	5
70	Geomorphology of the upper Mkhomazi River basin, KwaZulu-Natal, South Africa, with emphasis on late Pleistocene colluvial deposits. Journal of Maps, 2021, 17, 5-16.	2.0	5
71	EvaluaciÃ³n de la amenaza natural en ambiente semiÃ¡rido, sustentada en la geomorfologÃa y el modelamiento de Ãndices topogrÃ¡ficos. Salamanca, RegiÃ³n de Coquimbo, Chile. Investigaciones GeogrÃ¡ficas, 2012, , 19.	0.1	5
72	Assessment of Natural Hazards and Vulnerability in the Rio CopiapÃ³ Catchment: A case study in the ungauged Quebrada Cinchado Catchment. Investigaciones GeogrÃ¡ficas, 2013, , 17.	0.1	5

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73	Morphometric terrain analysis to explore present day geohazards and paleolandscape forms and features in the surroundings of the Melka Kunture prehistoric site, Upper Awash Valley, Central Ethiopia. Acta Universitatis Carolinae, Geographica, 2018, 53, 10-19.	0.2	4
74	Paleoenvironmental Research in the Semiarid Lake Manyara Area, Northern Tanzania: A Synopsis. Natural Science in Archaeology, 2018, , 123-138.	1.7	4
75	Geomorphologic map of the 1st Mutnaya River, Southeastern Kamchatka, Russia. Journal of Mountain Science, 2017, 14, 2373-2390.	2.0	3
76	Analysis of Post-Burial Soil Developments of Pre-AD 79 Roman Paleosols near Pompeii (Italy). Open Journal of Soil Science, 2014, 04, 337-356.	0.8	3
77	Procesos geodinÃ¡micos actuales en ambiente de media y baja montaÃ±a: Borde meridional de la cuenca del rÃo Maipo, RegiÃ³n Metropolitana de Santiago. Revista De Geografia Norte Grande, 2006, , .	0.2	3
78	EvaluaciÃ³n de la pÃ©rdida de suelo, asociada al proceso de expansiÃ³n urbana y reconversiÃ³n productiva: Caso: comunas de Los Andes, Quillota y ConcÃ³n, valle del Aconcagua. Revista De Geografia Norte Grande, 2010, , .	0.2	2
79	Aspectos geodinÃ¡micos de un paleoestuario del desierto marginal de Chile: RÃo CopiapÃ³. Revista De Geografia Norte Grande, 2010, , .	0.2	2
80	RelaciÃ³n entre el cambio de uso del suelo en la cuenca del Aconcagua y su litoral arenoso correlativo: Chile central. Revista De Geografia Norte Grande, 2011, , 187-202.	0.2	2
81	AnÃ¡lisis integrado de las condiciones de amenaza natural en el medio ambiente costero semiÃ¡rido de Chile. La Serena, Coquimbo. Boletin De La Asociacion De Geografos Espanoles, 2015, , .	0.3	2
82	Explorative Spatial Analysis of Neandertal Sites using Terrain Analysis and Stochastic Environmental Modelling. GI_Forum, 0, 1, 21-38.	0.2	2
83	Geohazards in the Fjords of Northern Patagonia, Chile. , 2018, , .		1
84	Impact of Agricultural Management in Vineyards to Landslides Susceptibility in Italian Apennines. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 149-156.	0.3	1
85	Relationship among soil management, organic matter content and root development along the explorable soil profile in the vineyard. BIO Web of Conferences, 2019, 13, 04021.	0.2	0
86	Spatial analysis of hillfort locations in the CheÅ‚mno Land (Poland) using digital terrain analysis and stochastic data exploration. Journal of Archaeological Science: Reports, 2021, 39, 103170.	0.5	0
87	ASSESSMENT OF GROUNDWATER RESPONSE AND SOIL MOISTURE FLUCTUATIONS IN THE MUGELLO BASIN (CENTRAL ITALY). Geography, Environment, Sustainability, 2017, 10, 15-27.	1.3	0
88	Digital Data and Tools in Archaeology: The ROCEEH Out of Africa Database (ROAD). GI_Forum, 0, 1, 3-12.	0.2	0