Gert Verstraeten

List of Publications by Year
in descending order

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126 papers	9,519 citations	31902 53 h-index	39575 94 g-index
147 all docs	147 docs citations	147 times ranked	6775 citing authors

#	Article	IF	Citations
1	The potential of REVEALS-based vegetation reconstructions using pollen records from alluvial floodplains. Vegetation History and Archaeobotany, 2022, 31, 525-540.	1.0	5
2	Simulating event-scale rainfall erosivity across European climatic regions. Catena, 2022, 213, 106157.	2.2	10
3	The Scenic Beauty of Geosites and Its Relation to Their Scientific Value and Geoscience Knowledge of Tourists: A Case Study from Southeastern Spain. Land, 2021, 10, 460.	1.2	14
4	A Spatially Explicit Crop Yield Model to Simulate Agricultural Productivity for Past Societies under Changing Environmental Conditions. Water (Switzerland), 2021, 13, 2023.	1.2	4
5	Changes in floodplain geo-ecology in the Belgian loess belt during the first millennium AD. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2021, 100, .	0.6	2
6	Modelling long-term alluvial-peatland dynamics in temperate river floodplains. Biogeosciences, 2021, 18, 6181-6212.	1.3	1
7	Geomorphic controls on floodplain sediment and soil organic carbon storage in a Scottish mountain river. Earth Surface Processes and Landforms, 2020, 45, 207-223.	1.2	19
8	Anthropogenic legacy effects control sediment and organic carbon storage in temperate river floodplains. Catena, 2020, 195, 104897.	2.2	8
9	Sand Dune Dynamics Exploiting a Fully Automatic Method Using Satellite SAR Data. Remote Sensing, 2020, 12, 3993.	1.8	8
10	Mapping and Quantifying the Human-Environment Interactions in Middle Egypt Using Machine Learning and Satellite Data Fusion Techniques. Remote Sensing, 2020, 12, 584.	1.8	3
11	The Giba, Tanqwa and Tsaliet Rivers in the Headwaters of the Tekezze Basin. GeoGuide, 2019, , 215-230.	0.2	4
12	The importance of the Great War compared to long-term developments in restructuring the rural landscape in Flanders (Belgium). Applied Geography, 2019, 111, 102063.	1.7	3
13	Holocene demographic fluctuations, climate and erosion in the Mediterranean: A meta data-analysis. Holocene, 2019, 29, 864-885.	0.9	54
14	Widespread global peatland establishment and persistence over the last 130,000 y. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4822-4827.	3.3	82
15	Modelling long-term blanket peatland development in eastern Scotland. Biogeosciences, 2019, 16, 3977-3996.	1.3	5
16	â€œMarginalâ€•Landscapes: Human Activity, Vulnerability, and Resilience in the Western Taurus Mountains (Southwest Turkey). Journal of Eastern Mediterranean Archaeology and Heritage Studies, 2019, 7, 432.	0.1	6
17	Evidence of anthropogenic tipping points in fluvial dynamics in Europe. Global and Planetary Change, 2018, 164, 27-38.	1.6	51
18	Multi-Temporal Insar Monitoring of the Aswan High Dam (Egypt). , 2018, , .		0

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19	Variability in fluvial geomorphic response to anthropogenic disturbance. Geomorphology, 2017, 294, 20-39.	1.1	72
20	Landform transformation and long-term sediment budget for a Chernozem-dominated lowland agricultural catchment. Catena, 2017, 157, 24-34.	2.2	22
21	Detecting modern desert to urban transitions from space in the surroundings of the Giza World Heritage site and Greater Cairo. Journal of Cultural Heritage, 2017, 23, 71-78.	1.5	5
22	Human induced soil erosion and the implications on crop yield in a small mountainous Mediterranean catchment (SW-Turkey). Catena, 2017, 149, 491-504.	2.2	16
23	Quantifying human impacts on catchment sediment yield: A continental approach. Global and Planetary Change, 2015, 130, 22-36.	1.6	62
24	A new model of river dynamics, hydroclimatic change and human settlement in the Nile Valley derived from meta-analysis of the Holocene fluvial archive. Quaternary Science Reviews, 2015, 130, 109-123.	1.4	106
25	Impact of the spatial and thematic resolution of Holocene anthropogenic land-cover scenarios on modeled soil erosion and sediment delivery rates. Holocene, 2014, 24, 67-77.	0.9	17
26	Quantification of humanâ€“environment interactions in the past. Anthropocene, 2014, 8, 1-5.	1.6	11
27	Moderate seismic activity affects contemporary sediment yields. Progress in Physical Geography, 2014, 38, 145-172.	1.4	50
28	Non-uniform and diachronous Holocene floodplain evolution: a case study from the Dijle catchment, Belgium. Journal of Quaternary Science, 2014, 29, 351-360.	1.1	21
29	From natural to human-dominated floodplain geoecology â€“ A Holocene perspective for the Dijle catchment, Belgium. Anthropocene, 2014, 8, 46-58.	1.6	26
30	DECADAL MODELLING OF RAINFALL EROSIVITY IN BELGIUM. Land Degradation and Development, 2014, 25, 511-519.	1.8	14
31	Reconstruction and semi-quantification of human impact in the Dijle catchment, central Belgium: a palynological and statistical approach. Quaternary Science Reviews, 2014, 102, 96-110.	1.4	34
32	Unravelling changing sediment sources in a Mediterranean mountain catchment: a Bayesian fingerprinting approach. Hydrological Processes, 2013, 27, 896-910.	1.1	34
33	ASSESSING THE PERFORMANCE OF A SPATIALLY DISTRIBUTED SOIL EROSION AND SEDIMENT DELIVERY MODEL (WATEM/SEDEM) IN NORTHERN ETHIOPIA. Land Degradation and Development, 2013, 24, 188-204.	1.8	119
34	Predicting soil erosion and sediment yield at regional scales: Where do we stand?. Earth-Science Reviews, 2013, 127, 16-29.	4.0	348
35	A sediment fingerprinting approach to understand the geomorphic coupling in an eastern Mediterranean mountainous river catchment. Geomorphology, 2013, 197, 64-75.	1.1	40
36	Spatial and temporal variability of river flows in the degraded semi-arid tropical mountains of northern Ethiopia. Zeitschrift FÃ¼r Geomorphologie, 2013, 57, 143-169.	0.3	47

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37	Sensitivity of floodplain geoecology to human impact: A Holocene perspective for the headwaters of the Dijle catchment, central Belgium. Holocene, 2013, 23, 1403-1414.	0.9	21
38	Holocene floodplain deposition and scale effects in a typical European upland catchment: A case study from the AmblÃ¨ve catchment, Ardennes (Belgium). Holocene, 2013, 23, 1184-1197.	0.9	9
39	Carbon burial in soil sediments from Holocene agricultural erosion, Central Europe. Global Biogeochemical Cycles, 2013, 27, 828-835.	1.9	70
40	The Relation between Archaeology and Geography in Studying Past Human-environment Interactions:. , 2013, , 71-80.		0
41	Climate, people, fire and vegetation: new insights into vegetation dynamics in the Eastern Mediterranean since the 1st century AD. Climate of the Past, 2013, 9, 57-87.	1.3	48
42	Short Communication: Humans and the missing C-sink: erosion and burial of soil carbon through time. Earth Surface Dynamics, 2013, 1, 45-52.	1.0	43
43	Combining quantitative field and modelling approaches towards understanding landscape dynamics: an evolution of ideas spanning Jef Vandenberghe's research career. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2012, 91, 233-244.	0.6	1
44	Legacy of human-induced C erosion and burial on soilâ€“atmosphere C exchange. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19492-19497.	3.3	126
45	Numerically derived evidence for late-Holocene climate change and its impact on human presence in the southwest Taurus Mountains, Turkey. Holocene, 2012, 22, 425-438.	0.9	39
46	Fingerprinting historical fluvial sediment fluxes. Progress in Physical Geography, 2012, 36, 154-186.	1.4	98
47	Man, vegetation and climate during the Holocene in the territory of Sagalassos, Western Taurus Mountains, SW Turkey. Vegetation History and Archaeobotany, 2012, 21, 249-266.	1.0	41
48	Analyzing dune dynamics at the dune-field scale based on multi-temporal analysis of Landsat-TM images. Remote Sensing of Environment, 2012, 119, 105-117.	4.6	24
49	Sensitivity of the Eastern Mediterranean geomorphic system towards environmental change during the Late Holocene: a chronological perspective. Journal of Quaternary Science, 2012, 27, 371-382.	1.1	44
50	A comparison of measured catchment sediment yields with measured and predicted hillslope erosion rates in Europe. Journal of Soils and Sediments, 2012, 12, 586-602.	1.5	70
51	Modeling the sensitivity of sediment and water runoff dynamics to Holocene climate and land use changes at the catchment scale. Geomorphology, 2011, 126, 18-31.	1.1	70
52	Sediment yield in Europe: Spatial patterns and scale dependency. Geomorphology, 2011, 130, 142-161.	1.1	211
53	Sediment yield as a desertification risk indicator. Science of the Total Environment, 2011, 409, 1715-1725.	3.9	76
54	Holocene environmental change and its impact on sediment dynamics in the Eastern Mediterranean. Earth-Science Reviews, 2011, 108, 137-157.	4.0	95

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55	Factors controlling sediment yield at the catchment scale in NW Mediterranean geoecosystems. Journal of Soils and Sediments, 2011, 11, 690-707.	1.5	82
56	Changing hillslope and fluvial Holocene sediment dynamics in a Belgian loess catchment. Journal of Quaternary Science, 2011, 26, 44-58.	1.1	40
57	Effect of ENSO events on sediment production in a large coastal basin in northern Peru. Earth Surface Processes and Landforms, 2011, 36, 1776-1788.	1.2	24
58	Fluvial architecture of Belgian river systems in contrasting environments: implications for reconstructing the sedimentation history. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2011, 90, 31-50.	0.6	23
59	Sediment dynamics and the role of flash floods in sediment export from medium-sized catchments: a case study from the semi-arid tropical highlands in northern Ethiopia. Journal of Soils and Sediments, 2010, 10, 611-627.	1.5	120
60	Sensitivity of West and Central European river systems to environmental changes during the Holocene: A review. Earth-Science Reviews, 2010, 103, 163-182.	4.0	119
61	â€˜Pisidianâ€™ culture? The Classical-Hellenistic site at DÃ¼zen Tepe near Sagalassus (southwest Turkey). Anatolian Studies, 2010, 60, 105-128.	0.6	24
62	Quantification of alluvial sediment storage in contrasting environments: Methodology and error estimation. Catena, 2010, 82, 169-182.	2.2	17
63	Qualitative and quantitative applications of LiDAR imagery in fluvial geomorphology. Earth Surface Processes and Landforms, 2009, 34, 217-231.	1.2	134
64	Establishing a Holocene sediment budget for the river Dijle. Catena, 2009, 77, 150-163.	2.2	70
65	Human impact on sediment dynamics â€” quantification and timing. Catena, 2009, 77, 77-80.	2.2	58
66	Changing sediment dynamics due to natural reforestation in the Dragonja catchment, SW Slovenia. Catena, 2009, 78, 60-71.	2.2	95
67	A temporarily changing Holocene sediment budget for a loess-covered catchment (central Belgium). Geomorphology, 2009, 108, 24-34.	1.1	63
68	The impact of land use and climate change on late Holocene and future suspended sediment yield of the Meuse catchment. Geomorphology, 2009, 103, 389-400.	1.1	125
69	Sedimentâ€bound nutrient export from microâ€dam catchments in Northern Ethiopia. Land Degradation and Development, 2008, 19, 136-152.	1.8	76
70	Spatial and long-term variability of soil loss due to crop harvesting and the importance relative to water erosion: A case study from Belgium. Agriculture, Ecosystems and Environment, 2008, 126, 217-228.	2.5	10
71	The compatibility of erosion data at different temporal scales. Earth and Planetary Science Letters, 2008, 265, 138-152.	1.8	23
72	Modelling the impact of land-use change and farm dam construction on hillslope sediment delivery to rivers at the regional scale. Geomorphology, 2008, 98, 199-212.	1.1	54

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73	Alluvial and colluvial sediment storage in the Geul River catchment (The Netherlands) â€" Combining field and modelling data to construct a Late Holocene sediment budget. Geomorphology, 2008, 95, 487-503.	1.1	73
74	Spatially distributed modelling of soil erosion and sediment yield at regional scales in Spain. Global and Planetary Change, 2008, 60, 393-415.	1.6	180
75	Sediment yield variability in Northern Ethiopia: A quantitative analysis of its controlling factors. Catena, 2008, 75, 65-76.	2.2	98
76	Reconstruction of late-Holocene slope and dry valley sediment dynamics in a Belgian loess environment. Holocene, 2007, 17, 777-788.	0.9	39
77	The sediment delivery problem revisited. Progress in Physical Geography, 2007, 31, 155-178.	1.4	343
78	Characteristics of the size distribution of recent and historical landslides in a populated hilly region. Earth and Planetary Science Letters, 2007, 256, 588-603.	1.8	157
79	Morphology and internal structure of a dormant landslide in a hilly area: The Collinabos landslide (Belgium). Geomorphology, 2007, 89, 258-273.	1.1	37
80	Predicting the spatial patterns of hillslope sediment delivery to river channels in the Murrumbidgee catchment, Australia. Journal of Hydrology, 2007, 334, 440-454.	2.3	102
81	Use of LIDAR-derived images for mapping old landslides under forest. Earth Surface Processes and Landforms, 2007, 32, 754-769.	1.2	193
82	Factors controlling soil loss during sugar beet harvesting at the field plot scale in Belgium. European Journal of Soil Science, 2007, 58, 1400-1409.	1.8	15
83	Soil losses due to potato harvesting at the regional scale in Belgium. Soil Use and Management, 2007, 23, 156-161.	2.6	16
84	Soil loss due to harvesting of various crop types in contrasting agro-ecological environments. Agriculture, Ecosystems and Environment, 2007, 120, 153-165.	2.5	23
85	Long-term (105 years) variability in rain erosivity as derived from 10-min rainfall depth data for Ukkel (Brussels, Belgium): Implications for assessing soil erosion rates. Journal of Geophysical Research, 2006, 111, .	3.3	140
86	Prediction of landslide susceptibility using rare events logistic regression: A case-study in the Flemish Ardennes (Belgium). Geomorphology, 2006, 76, 392-410.	1.1	338
87	Holocene alluvial sediment storage in a small river catchment in the loess area of central Belgium. Geomorphology, 2006, 77, 187-201.	1.1	90
88	Reconstructing ancient topography through erosion modelling. Geomorphology, 2006, 78, 250-264.	1.1	43
89	Regional scale modelling of hillslope sediment delivery with SRTM elevation data. Geomorphology, 2006, 81, 128-140.	1.1	60
90	Soil losses due to mechanized potato harvesting. Soil and Tillage Research, 2006, 86, 52-72.	2.6	35

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91	Predicting catchment sediment yield in Mediterranean environments: the importance of sediment sources and connectivity in Italian drainage basins. Earth Surface Processes and Landforms, 2006, 31, 1017-1034.	1.2	144
92	The use of riparian vegetated filter strips to reduce river sediment loads: an overestimated control measure?. Hydrological Processes, 2006, 20, 4259-4267.	1.1	89
93	Gully Erosion in Europe. , 2006, , 515-536.		41
94	Soil Losses due to Crop Harvesting in Europe. , 2006, , 609-621.		7
95	Muddy Floods. , 2006, , 743-755.		26
96	Reservoir and Pond Sedimentation in Europe. , 2006, , 757-774.		31
97	Government and Agency Response to Soil Erosion Risk in Europe. , 2006, , 805-827.		8
98	Interannual variation of soil losses due to sugar beet harvesting in West Europe. Agriculture, Ecosystems and Environment, 2005, 107, 317-329.	2.5	35
99	Soil erosion and sediment deposition in the Belgian oess belt during the Holocene: establishing a sediment budget for a small agricultural catchment. Holocene, 2005, 15, 1032-1043.	0.9	84
100	Where Did Djehutihotep Erect His Colossal Statue?. Zeitschrift Fuer Aegyptische Sprache Und Altertumskunde, 2005, 132, 173-190.	0.1	8
101	The application of semi-quantitative methods and reservoir sedimentation rates for the prediction of basin sediment yield in Spain. Journal of Hydrology, 2005, 305, 63-86.	2.3	130
102	The effectiveness of hillshade maps and expert knowledge in mapping old deep-seated landslides. Geomorphology, 2005, 67, 351-363.	1.1	159
103	Characteristics, controlling factors and importance of deep gullies under cropland on loess-derived soils. Geomorphology, 2005, 69, 76-91.	1.1	67
104	Specific sediment yield in Tigray-Northern Ethiopia: Assessment and semi-quantitative modelling. Geomorphology, 2005, 69, 315-331.	1.1	96
105	RUSLE applied in a GIS framework: Calculating the LS factor and deriving homogeneous patches for estimating soil loss. International Journal of Geographical Information Science, 2005, 19, 809-829.	2.2	30
106	Soil loss due to crop harvesting: significance and determining factors. Progress in Physical Geography, 2004, 28, 467-501.	1.4	70
107	Evaluating the impact of watershed management scenarios on changes in sediment delivery to rivers?. Hydrobiologia, 2003, 494, 153-158.	1.0	17
108	Integrating science, policy and farmers to reduce soil loss and sediment delivery in Flanders, Belgium. Environmental Science and Policy, 2003, 6, 95-103.	2.4	40

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109	Sediment yield variability in Spain: a quantitative and semiqualitative analysis using reservoir sedimentation rates. Geomorphology, 2003, 50, 327-348.	1.1	154
110	Gully erosion and environmental change: importance and research needs. Catena, 2003, 50, 91-133.	2.2	1,284
111	Modelling the Geomorphic Response to Land Use Changes. Lecture Notes in Earth Sciences, 2003, , 73-100.	0.5	1
112	Regional Scale Variability in Sediment and Nutrient Delivery from Small Agricultural Watersheds. Journal of Environmental Quality, 2002, 31, 870.	1.0	30
113	Regional Scale Variability in Sediment and Nutrient Delivery from Small Agricultural Watersheds. Journal of Environmental Quality, 2002, 31, 870-879.	1.0	37
114	Using sediment deposits in small ponds to quantify sediment yield from small catchments: possibilities and limitations. Earth Surface Processes and Landforms, 2002, 27, 1425-1439.	1.2	101
115	Evaluating an integrated approach to catchment management to reduce soil loss and sediment pollution through modelling. Soil Use and Management, 2002, 18, 386-394.	2.6	18
116	Soil losses due to harvesting of chicory roots and sugar beet: an underrated geomorphic process?. Catena, 2001, 43, 35-47.	2.2	76
117	Factors controlling sediment yield from small intensively cultivated catchments in a temperate humid climate. Geomorphology, 2001, 40, 123-144.	1.1	214
118	Modelling the long-term sediment trap efficiency of small ponds. Hydrological Processes, 2001, 15, 2797-2819.	1.1	57
119	Variability of dry sediment bulk density between and within retention ponds and its impact on the calculation of sediment yields. Earth Surface Processes and Landforms, 2001, 26, 375-394.	1.2	77
120	Modelling mean annual sediment yield using a distributed approach. Earth Surface Processes and Landforms, 2001, 26, 1221-1236.	1.2	338
121	The importance of sediment characteristics and trap efficiency in assessing sediment yield using retention ponds. Physics and Chemistry of the Earth, 2001, 26, 83-87.	0.3	11
122	Estimating trap efficiency of small reservoirs and ponds: methods and implications for the assessment of sediment yield. Progress in Physical Geography, 2000, 24, 219-251.	1.4	245
123	Man and environment in the territory of Sagalassos, a classical city in SW Turkey. Quaternary Science Reviews, 1999, 18, 697-709.	1.4	74
124	The nature of small-scale flooding, muddy floods and retention pond sedimentation in central Belgium. Geomorphology, 1999, 29, 275-292.	1.1	148
125	Solving the Off-site Impacts of Soil Erosion by an Integrated Environmental Watershed Management?. , 0, , .		0
126	Short Communication: Humans and the missing C-sink: erosion and burial of soil carbon through time. , 0, , .		4