

Gert Verstraeten

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Gully erosion and environmental change: importance and research needs. <i>Catena</i> , 2003, 50, 91-133. | 2.2 | 1,284 |
| 2 | Predicting soil erosion and sediment yield at regional scales: Where do we stand?. <i>Earth-Science Reviews</i> , 2013, 127, 16-29. | 4.0 | 348 |
| 3 | The sediment delivery problem revisited. <i>Progress in Physical Geography</i> , 2007, 31, 155-178. | 1.4 | 343 |
| 4 | Modelling mean annual sediment yield using a distributed approach. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 1221-1236. | 1.2 | 338 |
| 5 | Prediction of landslide susceptibility using rare events logistic regression: A case-study in the Flemish Ardennes (Belgium). <i>Geomorphology</i> , 2006, 76, 392-410. | 1.1 | 338 |
| 6 | Estimating trap efficiency of small reservoirs and ponds: methods and implications for the assessment of sediment yield. <i>Progress in Physical Geography</i> , 2000, 24, 219-251. | 1.4 | 245 |
| 7 | Factors controlling sediment yield from small intensively cultivated catchments in a temperate humid climate. <i>Geomorphology</i> , 2001, 40, 123-144. | 1.1 | 214 |
| 8 | Sediment yield in Europe: Spatial patterns and scale dependency. <i>Geomorphology</i> , 2011, 130, 142-161. | 1.1 | 211 |
| 9 | Use of LIDAR-derived images for mapping old landslides under forest. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 754-769. | 1.2 | 193 |
| 10 | Spatially distributed modelling of soil erosion and sediment yield at regional scales in Spain. <i>Global and Planetary Change</i> , 2008, 60, 393-415. | 1.6 | 180 |
| 11 | The effectiveness of hillshade maps and expert knowledge in mapping old deep-seated landslides. <i>Geomorphology</i> , 2005, 67, 351-363. | 1.1 | 159 |
| 12 | Characteristics of the size distribution of recent and historical landslides in a populated hilly region. <i>Earth and Planetary Science Letters</i> , 2007, 256, 588-603. | 1.8 | 157 |
| 13 | Sediment yield variability in Spain: a quantitative and semiqualitative analysis using reservoir sedimentation rates. <i>Geomorphology</i> , 2003, 50, 327-348. | 1.1 | 154 |
| 14 | The nature of small-scale flooding, muddy floods and retention pond sedimentation in central Belgium. <i>Geomorphology</i> , 1999, 29, 275-292. | 1.1 | 148 |
| 15 | Predicting catchment sediment yield in Mediterranean environments: the importance of sediment sources and connectivity in Italian drainage basins. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1017-1034. | 1.2 | 144 |
| 16 | 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. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 140 |
| 17 | Qualitative and quantitative applications of LIDAR imagery in fluvial geomorphology. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 217-231. | 1.2 | 134 |
| 18 | The application of semi-quantitative methods and reservoir sedimentation rates for the prediction of basin sediment yield in Spain. <i>Journal of Hydrology</i> , 2005, 305, 63-86. | 2.3 | 130 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 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 | 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 |
| 26 | 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 |
| 27 | Sediment yield variability in Northern Ethiopia: A quantitative analysis of its controlling factors. Catena, 2008, 75, 65-76. | 2.2 | 98 |
| 28 | Fingerprinting historical fluvial sediment fluxes. Progress in Physical Geography, 2012, 36, 154-186. | 1.4 | 98 |
| 29 | Specific sediment yield in Tigray-Northern Ethiopia: Assessment and semi-quantitative modelling. Geomorphology, 2005, 69, 315-331. | 1.1 | 96 |
| 30 | Changing sediment dynamics due to natural reforestation in the Dragonja catchment, SW Slovenia. Catena, 2009, 78, 60-71. | 2.2 | 95 |
| 31 | Holocene environmental change and its impact on sediment dynamics in the Eastern Mediterranean. Earth-Science Reviews, 2011, 108, 137-157. | 4.0 | 95 |
| 32 | Holocene alluvial sediment storage in a small river catchment in the loess area of central Belgium. Geomorphology, 2006, 77, 187-201. | 1.1 | 90 |
| 33 | 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 |
| 34 | 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 |
| 35 | Factors controlling sediment yield at the catchment scale in NW Mediterranean geosystems. Journal of Soils and Sediments, 2011, 11, 690-707. | 1.5 | 82 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Variability of dry sediment bulk density between and within retention ponds and its impact on the calculation of sediment yields. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 375-394. | 1.2 | 77 |
| 38 | Soil losses due to harvesting of chicory roots and sugar beet: an underrated geomorphic process?. <i>Catena</i> , 2001, 43, 35-47. | 2.2 | 76 |
| 39 | Sediment-bound nutrient export from micro-dam catchments in Northern Ethiopia. <i>Land Degradation and Development</i> , 2008, 19, 136-152. | 1.8 | 76 |
| 40 | Sediment yield as a desertification risk indicator. <i>Science of the Total Environment</i> , 2011, 409, 1715-1725. | 3.9 | 76 |
| 41 | Man and environment in the territory of Sagalassos, a classical city in SW Turkey. <i>Quaternary Science Reviews</i> , 1999, 18, 697-709. | 1.4 | 74 |
| 42 | Alluvial and colluvial sediment storage in the Geul River catchment (The Netherlands) – Combining field and modelling data to construct a Late Holocene sediment budget. <i>Geomorphology</i> , 2008, 95, 487-503. | 1.1 | 73 |
| 43 | Variability in fluvial geomorphic response to anthropogenic disturbance. <i>Geomorphology</i> , 2017, 294, 20-39. | 1.1 | 72 |
| 44 | Soil loss due to crop harvesting: significance and determining factors. <i>Progress in Physical Geography</i> , 2004, 28, 467-501. | 1.4 | 70 |
| 45 | Establishing a Holocene sediment budget for the river Dijle. <i>Catena</i> , 2009, 77, 150-163. | 2.2 | 70 |
| 46 | Modeling the sensitivity of sediment and water runoff dynamics to Holocene climate and land use changes at the catchment scale. <i>Geomorphology</i> , 2011, 126, 18-31. | 1.1 | 70 |
| 47 | A comparison of measured catchment sediment yields with measured and predicted hillslope erosion rates in Europe. <i>Journal of Soils and Sediments</i> , 2012, 12, 586-602. | 1.5 | 70 |
| 48 | Carbon burial in soil sediments from Holocene agricultural erosion, Central Europe. <i>Global Biogeochemical Cycles</i> , 2013, 27, 828-835. | 1.9 | 70 |
| 49 | Characteristics, controlling factors and importance of deep gullies under cropland on loess-derived soils. <i>Geomorphology</i> , 2005, 69, 76-91. | 1.1 | 67 |
| 50 | A temporarily changing Holocene sediment budget for a loess-covered catchment (central Belgium). <i>Geomorphology</i> , 2009, 108, 24-34. | 1.1 | 63 |
| 51 | Quantifying human impacts on catchment sediment yield: A continental approach. <i>Global and Planetary Change</i> , 2015, 130, 22-36. | 1.6 | 62 |
| 52 | Regional scale modelling of hillslope sediment delivery with SRTM elevation data. <i>Geomorphology</i> , 2006, 81, 128-140. | 1.1 | 60 |
| 53 | Human impact on sediment dynamics – quantification and timing. <i>Catena</i> , 2009, 77, 77-80. | 2.2 | 58 |
| 54 | Modelling the long-term sediment trap efficiency of small ponds. <i>Hydrological Processes</i> , 2001, 15, 2797-2819. | 1.1 | 57 |

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|----|--|-----|-----------|
| 55 | Modelling the impact of land-use change and farm dam construction on hillslope sediment delivery to rivers at the regional scale. <i>Geomorphology</i> , 2008, 98, 199-212. | 1.1 | 54 |
| 56 | Holocene demographic fluctuations, climate and erosion in the Mediterranean: A meta data-analysis. <i>Holocene</i> , 2019, 29, 864-885. | 0.9 | 54 |
| 57 | Evidence of anthropogenic tipping points in fluvial dynamics in Europe. <i>Global and Planetary Change</i> , 2018, 164, 27-38. | 1.6 | 51 |
| 58 | Moderate seismic activity affects contemporary sediment yields. <i>Progress in Physical Geography</i> , 2014, 38, 145-172. | 1.4 | 50 |
| 59 | Climate, people, fire and vegetation: new insights into vegetation dynamics in the Eastern Mediterranean since the 1st century AD. <i>Climate of the Past</i> , 2013, 9, 57-87. | 1.3 | 48 |
| 60 | Spatial and temporal variability of river flows in the degraded semi-arid tropical mountains of northern Ethiopia. <i>Zeitschrift für Geomorphologie</i> , 2013, 57, 143-169. | 0.3 | 47 |
| 61 | Sensitivity of the Eastern Mediterranean geomorphic system towards environmental change during the Late Holocene: a chronological perspective. <i>Journal of Quaternary Science</i> , 2012, 27, 371-382. | 1.1 | 44 |
| 62 | Reconstructing ancient topography through erosion modelling. <i>Geomorphology</i> , 2006, 78, 250-264. | 1.1 | 43 |
| 63 | Short Communication: Humans and the missing C-sink: erosion and burial of soil carbon through time. <i>Earth Surface Dynamics</i> , 2013, 1, 45-52. | 1.0 | 43 |
| 64 | Gully Erosion in Europe. , 2006, , 515-536. | | 41 |
| 65 | Man, vegetation and climate during the Holocene in the territory of Sagalassos, Western Taurus Mountains, SW Turkey. <i>Vegetation History and Archaeobotany</i> , 2012, 21, 249-266. | 1.0 | 41 |
| 66 | Integrating science, policy and farmers to reduce soil loss and sediment delivery in Flanders, Belgium. <i>Environmental Science and Policy</i> , 2003, 6, 95-103. | 2.4 | 40 |
| 67 | Changing hillslope and fluvial Holocene sediment dynamics in a Belgian loess catchment. <i>Journal of Quaternary Science</i> , 2011, 26, 44-58. | 1.1 | 40 |
| 68 | A sediment fingerprinting approach to understand the geomorphic coupling in an eastern Mediterranean mountainous river catchment. <i>Geomorphology</i> , 2013, 197, 64-75. | 1.1 | 40 |
| 69 | Reconstruction of late-Holocene slope and dry valley sediment dynamics in a Belgian loess environment. <i>Holocene</i> , 2007, 17, 777-788. | 0.9 | 39 |
| 70 | Numerically derived evidence for late-Holocene climate change and its impact on human presence in the southwest Taurus Mountains, Turkey. <i>Holocene</i> , 2012, 22, 425-438. | 0.9 | 39 |
| 71 | Regional Scale Variability in Sediment and Nutrient Delivery from Small Agricultural Watersheds. <i>Journal of Environmental Quality</i> , 2002, 31, 870-879. | 1.0 | 37 |
| 72 | Morphology and internal structure of a dormant landslide in a hilly area: The Collinabos landslide (Belgium). <i>Geomorphology</i> , 2007, 89, 258-273. | 1.1 | 37 |

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|----|---|-----|-----------|
| 73 | Interannual variation of soil losses due to sugar beet harvesting in West Europe. <i>Agriculture, Ecosystems and Environment</i> , 2005, 107, 317-329. | 2.5 | 35 |
| 74 | Soil losses due to mechanized potato harvesting. <i>Soil and Tillage Research</i> , 2006, 86, 52-72. | 2.6 | 35 |
| 75 | Unravelling changing sediment sources in a Mediterranean mountain catchment: a Bayesian fingerprinting approach. <i>Hydrological Processes</i> , 2013, 27, 896-910. | 1.1 | 34 |
| 76 | Reconstruction and semi-quantification of human impact in the Dijle catchment, central Belgium: a palynological and statistical approach. <i>Quaternary Science Reviews</i> , 2014, 102, 96-110. | 1.4 | 34 |
| 77 | Reservoir and Pond Sedimentation in Europe. , 2006, , 757-774. | | 31 |
| 78 | Regional Scale Variability in Sediment and Nutrient Delivery from Small Agricultural Watersheds. <i>Journal of Environmental Quality</i> , 2002, 31, 870. | 1.0 | 30 |
| 79 | RUSLE applied in a GIS framework: Calculating the LS factor and deriving homogeneous patches for estimating soil loss. <i>International Journal of Geographical Information Science</i> , 2005, 19, 809-829. | 2.2 | 30 |
| 80 | Muddy Floods. , 2006, , 743-755. | | 26 |
| 81 | From natural to human-dominated floodplain geoecology – A Holocene perspective for the Dijle catchment, Belgium. <i>Anthropocene</i> , 2014, 8, 46-58. | 1.6 | 26 |
| 82 | –Pisidian– culture? The Classical-Hellenistic site at D¼zen Tepe near Sagalassus (southwest Turkey). <i>Anatolian Studies</i> , 2010, 60, 105-128. | 0.6 | 24 |
| 83 | Effect of ENSO events on sediment production in a large coastal basin in northern Peru. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1776-1788. | 1.2 | 24 |
| 84 | Analyzing dune dynamics at the dune-field scale based on multi-temporal analysis of Landsat-TM images. <i>Remote Sensing of Environment</i> , 2012, 119, 105-117. | 4.6 | 24 |
| 85 | Soil loss due to harvesting of various crop types in contrasting agro-ecological environments. <i>Agriculture, Ecosystems and Environment</i> , 2007, 120, 153-165. | 2.5 | 23 |
| 86 | The compatibility of erosion data at different temporal scales. <i>Earth and Planetary Science Letters</i> , 2008, 265, 138-152. | 1.8 | 23 |
| 87 | Fluvial architecture of Belgian river systems in contrasting environments: implications for reconstructing the sedimentation history. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2011, 90, 31-50. | 0.6 | 23 |
| 88 | Landform transformation and long-term sediment budget for a Chernozem-dominated lowland agricultural catchment. <i>Catena</i> , 2017, 157, 24-34. | 2.2 | 22 |
| 89 | Sensitivity of floodplain geoecology to human impact: A Holocene perspective for the headwaters of the Dijle catchment, central Belgium. <i>Holocene</i> , 2013, 23, 1403-1414. | 0.9 | 21 |
| 90 | Non-uniform and diachronous Holocene floodplain evolution: a case study from the Dijle catchment, Belgium. <i>Journal of Quaternary Science</i> , 2014, 29, 351-360. | 1.1 | 21 |

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|-----|---|-----|-----------|
| 91 | Geomorphic controls on floodplain sediment and soil organic carbon storage in a Scottish mountain river. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 207-223. | 1.2 | 19 |
| 92 | Evaluating an integrated approach to catchment management to reduce soil loss and sediment pollution through modelling. <i>Soil Use and Management</i> , 2002, 18, 386-394. | 2.6 | 18 |
| 93 | Evaluating the impact of watershed management scenarios on changes in sediment delivery to rivers?. <i>Hydrobiologia</i> , 2003, 494, 153-158. | 1.0 | 17 |
| 94 | Quantification of alluvial sediment storage in contrasting environments: Methodology and error estimation. <i>Catena</i> , 2010, 82, 169-182. | 2.2 | 17 |
| 95 | Impact of the spatial and thematic resolution of Holocene anthropogenic land-cover scenarios on modeled soil erosion and sediment delivery rates. <i>Holocene</i> , 2014, 24, 67-77. | 0.9 | 17 |
| 96 | Soil losses due to potato harvesting at the regional scale in Belgium. <i>Soil Use and Management</i> , 2007, 23, 156-161. | 2.6 | 16 |
| 97 | Human induced soil erosion and the implications on crop yield in a small mountainous Mediterranean catchment (SW-Turkey). <i>Catena</i> , 2017, 149, 491-504. | 2.2 | 16 |
| 98 | Factors controlling soil loss during sugar beet harvesting at the field plot scale in Belgium. <i>European Journal of Soil Science</i> , 2007, 58, 1400-1409. | 1.8 | 15 |
| 99 | DECADAL MODELLING OF RAINFALL EROSIIVITY IN BELGIUM. <i>Land Degradation and Development</i> , 2014, 25, 511-519. | 1.8 | 14 |
| 100 | The Scenic Beauty of Geosites and Its Relation to Their Scientific Value and Geoscience Knowledge of Tourists: A Case Study from Southeastern Spain. <i>Land</i> , 2021, 10, 460. | 1.2 | 14 |
| 101 | The importance of sediment characteristics and trap efficiency in assessing sediment yield using retention ponds. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 83-87. | 0.3 | 11 |
| 102 | Quantification of human-environment interactions in the past. <i>Anthropocene</i> , 2014, 8, 1-5. | 1.6 | 11 |
| 103 | Spatial and long-term variability of soil loss due to crop harvesting and the importance relative to water erosion: A case study from Belgium. <i>Agriculture, Ecosystems and Environment</i> , 2008, 126, 217-228. | 2.5 | 10 |
| 104 | Simulating event-scale rainfall erosivity across European climatic regions. <i>Catena</i> , 2022, 213, 106157. | 2.2 | 10 |
| 105 | Holocene floodplain deposition and scale effects in a typical European upland catchment: A case study from the Amblève catchment, Ardennes (Belgium). <i>Holocene</i> , 2013, 23, 1184-1197. | 0.9 | 9 |
| 106 | Where Did Djehutihotep Erect His Colossal Statue?. <i>Zeitschrift Fuer Aegyptische Sprache Und Altertumskunde</i> , 2005, 132, 173-190. | 0.1 | 8 |
| 107 | Government and Agency Response to Soil Erosion Risk in Europe. , 2006, , 805-827. | | 8 |
| 108 | Anthropogenic legacy effects control sediment and organic carbon storage in temperate river floodplains. <i>Catena</i> , 2020, 195, 104897. | 2.2 | 8 |

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|-----|--|-----|-----------|
| 109 | Sand Dune Dynamics Exploiting a Fully Automatic Method Using Satellite SAR Data. <i>Remote Sensing</i> , 2020, 12, 3993. | 1.8 | 8 |
| 110 | Soil Losses due to Crop Harvesting in Europe. , 2006, , 609-621. | | 7 |
| 111 | â€œMarginalâ€•Landscapes: Human Activity, Vulnerability, and Resilience in the Western Taurus Mountains (Southwest Turkey). <i>Journal of Eastern Mediterranean Archaeology and Heritage Studies</i> , 2019, 7, 432. | 0.1 | 6 |
| 112 | Detecting modern desert to urban transitions from space in the surroundings of the Giza World Heritage site and Greater Cairo. <i>Journal of Cultural Heritage</i> , 2017, 23, 71-78. | 1.5 | 5 |
| 113 | Modelling long-term blanket peatland development in eastern Scotland. <i>Biogeosciences</i> , 2019, 16, 3977-3996. | 1.3 | 5 |
| 114 | The potential of REVEALS-based vegetation reconstructions using pollen records from alluvial floodplains. <i>Vegetation History and Archaeobotany</i> , 2022, 31, 525-540. | 1.0 | 5 |
| 115 | The Giba, Tanqwa and Tsaliel Rivers in the Headwaters of the Tekezze Basin. <i>GeoGuide</i> , 2019, , 215-230. | 0.2 | 4 |
| 116 | A Spatially Explicit Crop Yield Model to Simulate Agricultural Productivity for Past Societies under Changing Environmental Conditions. <i>Water (Switzerland)</i> , 2021, 13, 2023. | 1.2 | 4 |
| 117 | Short Communication: Humans and the missing C-sink: erosion and burial of soil carbon through time. , 0, , . | | 4 |
| 118 | The importance of the Great War compared to long-term developments in restructuring the rural landscape in Flanders (Belgium). <i>Applied Geography</i> , 2019, 111, 102063. | 1.7 | 3 |
| 119 | Mapping and Quantifying the Human-Environment Interactions in Middle Egypt Using Machine Learning and Satellite Data Fusion Techniques. <i>Remote Sensing</i> , 2020, 12, 584. | 1.8 | 3 |
| 120 | Changes in floodplain geo-ecology in the Belgian loess belt during the first millennium AD. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2021, 100, . | 0.6 | 2 |
| 121 | Combining quantitative field and modelling approaches towards understanding landscape dynamics: an evolution of ideas spanning Jef Vandenberghe's research career. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2012, 91, 233-244. | 0.6 | 1 |
| 122 | Modelling the Geomorphic Response to Land Use Changes. <i>Lecture Notes in Earth Sciences</i> , 2003, , 73-100. | 0.5 | 1 |
| 123 | Modelling long-term alluvial-peatland dynamics in temperate river floodplains. <i>Biogeosciences</i> , 2021, 18, 6181-6212. | 1.3 | 1 |
| 124 | Solving the Off-site Impacts of Soil Erosion by an Integrated Environmental Watershed Management?. , 0, , . | | 0 |
| 125 | The Relation between Archaeology and Geography in Studying Past Human-environment Interactions:. , 2013, , 71-80. | | 0 |
| 126 | Multi-Temporal Insar Monitoring of the Aswan High Dam (Egypt). , 2018, , . | | 0 |