

Ronald T Van Balen

List of Publications by Citations

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92
papers

2,513
citations

30
h-index

47
g-index

93
ext. papers

2,753
ext. citations

3.1
avg, IF

4.83
L-index

#	Paper	IF	Citations
92	Late Pleistocene evolution of the Rhine-Meuse system in the southern North Sea basin: imprints of climate change, sea-level oscillation and glacio-isostasy. <i>Quaternary Science Reviews</i> , 2007 , 26, 3216-3248	3.9	192
91	The impact of land use and climate change on late Holocene and future suspended sediment yield of the Meuse catchment. <i>Geomorphology</i> , 2009 , 103, 389-400	4.3	105
90	Response of the Rhine-Meuse fluvial system to Saalian ice-sheet dynamics. <i>Boreas</i> , 2008 , 37, 377-398	2.4	105
89	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. <i>Global and Planetary Change</i> , 2007 , 58, 1-118	4.2	102
88	The Cenozoic evolution of the Roer Valley Rift System integrated at a European scale. <i>Tectonophysics</i> , 2003 , 367, 101-126	3.1	97
87	Sediment budget and tectonic evolution of the Meuse catchment in the Ardennes and the Roer Valley Rift System. <i>Global and Planetary Change</i> , 2000 , 27, 113-129	4.2	95
86	Human and climate impact on catchment development during the Holocene – Geul River, the Netherlands. <i>Geomorphology</i> , 2008 , 98, 316-339	4.3	74
85	Strong increases in flood frequency and discharge of the River Meuse over the late Holocene: impacts of long-term anthropogenic land use change and climate variability. <i>Hydrology and Earth System Sciences</i> , 2008 , 12, 159-175	5.5	73
84	The effect of rift shoulder erosion on stratal patterns at passive margins: Implications for sequence stratigraphy. <i>Earth and Planetary Science Letters</i> , 1995 , 134, 527-544	5.3	61
83	Neotectonics of the Roer Valley Rift System, the Netherlands. <i>Global and Planetary Change</i> , 2000 , 27, 131-146	4.2	56
82	Modelling the Middle Pleistocene uplift in the Ardennes-Rhenish Massif: thermo-mechanical weakening under the Eifel?. <i>Global and Planetary Change</i> , 2000 , 27, 39-52	4.2	52
81	Tectonic geomorphology of the northern Upper Rhine Graben, Germany. <i>Global and Planetary Change</i> , 2007 , 58, 310-334	4.2	51
80	Process-based modelling of fluvial system response to rapid climate change – model formulation and generic applications. <i>Quaternary Science Reviews</i> , 2003 , 22, 2077-2095	3.9	51
79	Contrasting Neogene denudation histories of different structural regions in the Transantarctic Mountains rift flank constrained by cosmogenic isotope measurements. <i>Global and Planetary Change</i> , 1999 , 23, 145-172	4.2	51
78	Pleistocene tectonics inferred from fluvial terraces of the northern Upper Rhine Graben, Germany. <i>Tectonophysics</i> , 2007 , 430, 41-65	3.1	50
77	Numerical modeling of the response of alluvial rivers to Quaternary climate change. <i>Global and Planetary Change</i> , 2000 , 27, 147-163	4.2	50
76	Modeling the response of the Rhine-Meuse fluvial system to Late Pleistocene climate change. <i>Geomorphology</i> , 2010 , 114, 440-452	4.3	49

75	The effect of fault relay and clay smearing on groundwater flow patterns in the Lower Rhine Embayment. <i>Basin Research</i> , 2004 , 16, 397-411	3.2	48
74	Process-based modelling of fluvial system response to rapid climate change II. Application to the River Maas (The Netherlands) during the Last Glacial/Interglacial Transition. <i>Quaternary Science Reviews</i> , 2003 , 22, 2097-2110	3.9	47
73	Neotectonics of The Netherlands: a review. <i>Quaternary Science Reviews</i> , 2005 , 24, 439-454	3.9	45
72	Numerical analysis of how sedimentation and redistribution of surficial sediments affects salt diapirism. <i>Tectonophysics</i> , 1993 , 226, 199-216	3.1	44
71	The influence of a stratified rheology on the flexural response of the lithosphere to (un)loading by extensional faulting. <i>Geophysical Journal International</i> , 1998 , 134, 721-735	2.6	43
70	The impact of faults on the hydrogeological conditions in the Roer Valley Rift System: an overview. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2003 , 82, 41-54	1.1	42
69	Reconstructing the interacting effects of base level, climate, and tectonic uplift in the lower Miß River terrace record: A gradient modelling evaluation. <i>Geomorphology</i> , 2013 , 186, 96-118	4.3	40
68	A new multilayered model for intraplate stress-induced differential subsidence of faulted lithosphere, applied to rifted basins. <i>Tectonics</i> , 1998 , 17, 938-954	4.3	37
67	Late Quaternary activity of the Feldbiss Fault Zone, Roer Valley Rift System, the Netherlands, based on displaced fluvial terrace fragments. <i>Tectonophysics</i> , 2002 , 352, 295-315	3.1	36
66	Climate-dependent fluvial architecture and processes on a suborbital timescale in areas of rapid tectonic uplift: An example from the NE Tibetan Plateau. <i>Global and Planetary Change</i> , 2015 , 133, 318-329 ²	4.2	35
65	Terrace staircase development in the Southern Pyrenees Foreland: Inferences from 10Be terrace exposure ages at the Segre River. <i>Global and Planetary Change</i> , 2013 , 101, 97-112	4.2	34
64	Modelling the impact of regional uplift and local tectonics on fluvial terrace preservation. <i>Geomorphology</i> , 2014 , 210, 119-135	4.3	31
63	Linking morphology across the glaciofluvial interface: A 10Be supported chronology of glacier advances and terrace formation in the Garonne River, northern Pyrenees, France. <i>Geomorphology</i> , 2014 , 207, 71-95	4.3	30
62	Modelling the hydrocarbon generation and migration in the West Netherlands Basin, the Netherlands. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2000 , 79, 29-44	1.1	30
61	External controls on Quaternary fluvial incision and terrace formation at the Segre River, Southern Pyrenees. <i>Tectonophysics</i> , 2013 , 602, 316-331	3.1	29
60	Late Miocene uplift of the NE Tibetan Plateau inferred from basin filling, planation and fluvial terraces in the Huang Shui catchment. <i>Global and Planetary Change</i> , 2012 , 88-89, 10-19	4.2	28
59	Late Quaternary paleoclimatic and geomorphological evolution at the interface between the Menyuan basin and the Qilian Mountains, northeastern Tibetan Plateau. <i>Quaternary Research</i> , 2013 , 80, 534-544	1.9	27
58	Late Quaternary evolution of the Feldbiss Fault (Roer Valley Rift System, the Netherlands) based on trenching, and its potential relation to glacial unloading. <i>Quaternary Science Reviews</i> , 2005 , 24, 489-508 ³	3.9	27

57	Slip tendency analysis as a tool to constrain fault reactivation: A numerical approach applied to three-dimensional fault models in the Roer Valley rift system (southeast Netherlands). <i>Journal of Geophysical Research</i> , 2004 , 109,		26
56	Numerical modelling of Quaternary terrace staircase formation in the Ebro foreland basin, southern Pyrenees, NE Iberia. <i>Basin Research</i> , 2016 , 28, 124-146	3.2	24
55	Geomorphology of active faulting and seismic hazard assessment: New tools and future challenges. <i>Geomorphology</i> , 2015 , 237, 1-13	4.3	24
54	Interplay between tectonic, fluvial and erosional processes along the Western Border Fault of the northern Upper Rhine Graben, Germany. <i>Tectonophysics</i> , 2005 , 406, 39-66	3.1	24
53	On the genetically meaningful decomposition of grain-size distributions: A comparison of different end-member modelling algorithms. <i>Sedimentary Geology</i> , 2018 , 375, 49-71	2.8	24
52	Characterization and quantification of active faulting in the Roer valley rift system based on high precision digital elevation models. <i>Quaternary Science Reviews</i> , 2005 , 24, 455-472	3.9	22
51	Aeolian dust supply from the Yellow River floodplain to the Pleistocene loess deposits of the Mangshan Plateau, central China: Evidence from zircon U-Pb age spectra. <i>Quaternary Science Reviews</i> , 2018 , 182, 131-143	3.9	18
50	Differential tectonic movements in the confluence area of the Huang Shui and Huang He rivers (Yellow River), NE Tibetan Plateau, as inferred from fluvial terrace positions. <i>Boreas</i> , 2014 , 43, 469-484	2.4	18
49	Neural network analyses of stress-induced overpressures in the Pannonian Basin. <i>Geophysical Journal International</i> , 1995 , 121, 532-544	2.6	18
48	New Estimates of Permafrost Evolution during the Last 21 k Years in Eurasia using Numerical Modelling. <i>Permafrost and Periglacial Processes</i> , 2013 , 24, 286-303	4.2	17
47	Thermal state of the Roer Valley Graben, part of the European Cenozoic Rift System. <i>Basin Research</i> , 2011 , 23, 65-82	3.2	17
46	Fluvial terraces of the northwest Iberian lower Miño River. <i>Journal of Maps</i> , 2013 , 9, 513-522	2.2	16
45	Middle Proterozoic to Early Palaeozoic evolution of central Baltoscandian intracratonic basins: evidence for asthenospheric diapirs. <i>Tectonophysics</i> , 1998 , 300, 131-142	3.1	16
44	Pre-Neogene controls on present-day fault activity in the West Netherlands Basin and Roer Valley Rift System (southern Netherlands): role of variations in fault orientation in a uniform low-stress regime. <i>Quaternary Science Reviews</i> , 2005 , 24, 473-488	3.9	16
43	Two decades of numerical modelling to understand long term fluvial archives: Advances and future perspectives. <i>Quaternary Science Reviews</i> , 2017 , 166, 177-187	3.9	15
42	LGM Permafrost Thickness and Extent in the Northern Hemisphere derived from the Earth System Model iLOVECLIM. <i>Permafrost and Periglacial Processes</i> , 2016 , 27, 31-42	4.2	15
41	Climatic and tectonic controls on the fluvial morphology of the Northeastern Tibetan Plateau (China). <i>Journal of Chinese Geography</i> , 2017 , 27, 1325-1340	3.7	14
40	Storms in a lagoon: Flooding history during the last 1200 years derived from geological and historical archives of Schokland (Noordoostpolder, the Netherlands). <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2014 , 93, 175-196	1.1	13

39	Hydrogeological aspects of fault zones on various scales in the Roer Valley Rift System. <i>Journal of Geochemical Exploration</i> , 2003 , 78-79, 317-320	3.8	13
38	An improved method for paleoflood reconstruction and flooding phase identification, applied to the Meuse River in the Netherlands. <i>Global and Planetary Change</i> , 2019 , 177, 213-224	4.2	12
37	Two-dimensional modelling of stratigraphy and compaction-driven fluid flow in the Pannonian Basin. <i>Geological Society Special Publication</i> , 1999 , 156, 391-414	1.7	12
36	Evolution of the alluvial fans of the Luo River in the Weihe Basin, central China, controlled by faulting and climate change - A reevaluation of the paleogeographical setting of Dali Man site. <i>Quaternary Science Reviews</i> , 2017 , 166, 339-351	3.9	11
35	Climate and base-level controlled fluvial system change and incision during the last glacial-interglacial transition, Roer river, the Netherlands - western Germany. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017 , 96, 71-92	1.1	11
34	Deep subsurface temperatures in the Roer Valley Graben and the Peelblock, the Netherlands - new results. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2002 , 81, 19-26	1.1	11
33	The influence of faults and intraplate stresses on the overpressure evolution of the Halten Terrace, mid-Norwegian margin. <i>Tectonophysics</i> , 2000 , 320, 331-345	3.1	11
32	Facies analysis of the Middle and Late Quaternary sediment infill of the northern Weihe Basin, Central China. <i>Journal of Quaternary Science</i> , 2016 , 31, 152-165	2.3	11
31	Origin of overpressures on the Halten Terrace, offshore mid-Norway: the potential role of mechanical compaction, pressure transfer and stress. <i>Geological Society Special Publication</i> , 1999 , 158, 137-156	1.7	10
30	Fluvial terrace formation and its impacts on early human settlement in the Hanzhong basin, Qinling Mountains, central China. <i>Global and Planetary Change</i> , 2019 , 178, 1-14	4.2	9
29	The effect of inplane force variations on a faulted elastic thin-plate, Implications for rifted sedimentary basins. <i>Geophysical Research Letters</i> , 1998 , 25, 3903-3906	4.9	9
28	Neotectonic evolution and sediment budget of the Meuse catchment in the Ardennes and the Roer Valley Rift System. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2002 , 81, 211-215	1.1	8
27	Tectonic control of the sedimentary record and stress-induced fluid flow: constraints from basin modelling. <i>Geological Society Special Publication</i> , 1994 , 78, 9-26	1.7	8
26	Tectonic and climatic controls on Quaternary fluvial processes and river terrace formation in a Mediterranean setting, the G1su River, southern Turkey. <i>Quaternary Research</i> , 2019 , 91, 533-547	1.9	6
25	Human presence in the central Netherlands during early MIS 6 (~170-190 Ka): evidence from early Middle Palaeolithic artefacts in ice-pushed Rhine-Meuse sediments. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2010 , 89, 77-83	1.1	6
24	History of petroleum systems in the southern part of the Broad Fourteens Basin. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2003 , 82, 71-90	1.1	6
23	Geochemical characterization of the middle and late Pleistocene alluvial fan-dominated infill of the northern part of the Weihe Basin, Central China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017 , 482, 57-69	2.9	5
22	Advancement toward coupling of the VAMPER permafrost model within the Earth system model <i>LOVECLIM (version 1.0): description and validation. <i>Geoscientific Model Development</i> , 2015 , 8, 1445-1460	6.3	5

21	Weichselian and Holocene climate history reflected in temperatures in the upper crust of the Netherlands. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2014 , 93, 107-117	1.1	5
20	IMPLICATIONS OF OROGENIC WEDGE GROWTH, INTRAPLATE STRESS VARIATIONS, AND EUSTATIC SEA-LEVEL CHANGE FOR FORELAND BASIN STRATIGRAPHY INFERENCES FROM NUMERICAL MODELING 1995 , 25-35		5
19	Landscape potential for the adoption of crop cultivation: Role of local soil properties and groundwater table rise during 6000-4000 BP in Flevoland (central Netherlands). <i>Quaternary International</i> , 2015 , 367, 77-95	2	4
18	Fluvial or aeolian? Unravelling the origin of the silty clayey sediment cover of terraces in the Hanzhong Basin (Qinling Mountains, central China). <i>Geomorphology</i> , 2020 , 367, 107294	4.3	4
17	Comment on Causes, consequences and chronology of large-magnitude palaeoflows in Middle and Late Pleistocene river systems of northwest Europe by Westaway and Bridgland (2010). <i>Earth Surface Processes and Landforms</i> , 2011 , 36, 1836-1840	3.7	4
16	Paleoflooding reconstruction from Holocene levee deposits in the Lower Meuse valley, the Netherlands. <i>Geomorphology</i> , 2020 , 352, 107002	4.3	4
15	Re-interpreting the biochronology of the La Celia and Los Gargantones mammal sites (Late Miocene, Murcia, Spain). <i>Geobios</i> , 2014 , 47, 155-164	1.5	3
14	An overview of fault zone permeabilities and groundwater level steps in the Roer Valley Rift System. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2019 , 98,	1.1	3
13	Coupling of VAMPERS within iLOVECLIM: experiments during the LGM and Last Deglaciation. <i>Journal of Quaternary Science</i> , 2019 , 34, 215-227	2.3	2
12	Process-based modelling of the climatic forcing of fluvial sediment flux: some examples and a discussion of optimal model complexity. <i>Geological Society Special Publication</i> , 2002 , 191, 187-198	1.7	2
11	Rapid flood intensification and environmental response of the Lower Meuse during the Allerød-Younger Dryas climate transition. <i>Geomorphology</i> , 2021 , 372, 107469	4.3	2
10	Gravel size matters: Early Middle Palaeolithic artefacts made from local Rhine and Meuse deposits in the central Netherlands. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017 , 96, 261-271	1.1	1
9	A celebration of the twentieth anniversary of the Fluvial Archives Group (FLAG). <i>Quaternary Research</i> , 2019 , 91, 453-456	1.9	1
8	Active faulting and folding along the Jumilla Fault Zone, northeastern Betics, Spain. <i>Geomorphology</i> , 2015 , 237, 88-97	4.3	1
7	Environmental changes in the late Allerød and early Younger Dryas in the Netherlands: a multiproxy high-resolution record from a site with two <i>Pinus sylvestris</i> populations. <i>Quaternary Science Reviews</i> , 2021 , 272, 107199	3.9	1
6	Marine and anthropogenic controls on the estuary of the Suriname River over the past 50 years. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2016 , 95, 419-428	1.1	1
5	Anthropogenic impacts on Holocene fluvial dynamics in the Chinese Loess Plateau, an evaluation based on landscape evolution modeling. <i>Geomorphology</i> , 2021 , 392, 107935	4.3	1
4	The Interplay between Tectonic Activity, Climate and Sea-Level Change in the Suriname River Valley, Tropical South America. <i>Quaternary</i> , 2021 , 4, 11	2.2	

- 3 Glacial geology of Saalian relief around Midwolda, eastern Groningen, the Netherlands. *Geologie En Mijnbouw/Netherlands Journal of Geosciences*, **2018**, 97, 261-282 1.1
- 2 Temporal and spatial variability of cross-fault groundwater-level differences: the impact of fault-induced permeability reduction, precipitation and evapotranspiration. *Hydrogeology Journal*, 1 3.1
- 1 Late Weichselian and Holocene climatic and local controls on aeolian deposition inferred from decomposing grain size-shape distributions. *Quaternary Science Reviews*, **2022**, 287, 107554 3.9