Ritske Huismans

List of Publications by Year
in descending order

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Version: 2024-02-01

68 papers	3,498 citations	147566 31 h-index	138251 58 g-index
77 all docs	77 docs citations	77 times ranked	2606 citing authors

#	Article	IF	Citations
1	Links Between Faulting, Topography, and Sediment Production During Continental Rifting: Insights From Coupled Surface Process, Thermomechanical Modeling. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	8
2	Magmatism at Passive Margins: Effects of Depthâ€Dependent Wide Rifting and Lithospheric Counterflow. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	3
3	Mantle exhumation at magma-poor rifted margins controlled by frictional shear zones. Nature Communications, 2022, 13, 1634.	5.8	4
4	Widespread glacial erosion on the Scandinavian passive margin: REPLY. Geology, 2022, 50, e547-e547.	2.0	0
5	Wide Versus Narrow Backâ€Arc Rifting: Control of Subduction Velocity and Convective Backâ€Arc Thinning. Tectonics, 2022, 41, .	1.3	3
6	Topography of mountain belts controlled by rheology and surface processes. Nature, 2022, 606, 516-521.	13.7	26
7	Growth of Collisional Orogens From Small and Cold to Large and Hotâ€"Inferences From Geodynamic Models. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021168.	1.4	17
8	Spatio-temporal patterns of Pyrenean exhumation revealed by inverse thermo-kinematic modeling of a large thermochronologic data set. Geology, 2021, 49, 738-742.	2.0	8
9	Widespread glacial erosion on the Scandinavian passive margin. Geology, 2021, 49, 1004-1008.	2.0	8
10	Melt volume at Atlantic volcanic rifted margins controlled by depth-dependent extension and mantle temperature. Nature Communications, 2021, 12, 3894.	5.8	11
11	The Role of Subduction Interface and Upper Plate Strength on Backâ€Arc Extension: Application to Mediterranean Backâ€Arc Basins. Tectonics, 2021, 40, e2021TC006795.	1.3	12
12	Rotation, narrowing, and preferential reactivation of brittle structures during oblique rifting. Earth and Planetary Science Letters, 2020, 531, 115952.	1.8	36
13	Crustal domains in the Western Barents Sea. Geophysical Journal International, 2020, 221, 2155-2169.	1.0	7
14	Morphotectonic Evolution of Passive Margins Undergoing Active Surface Processes: Largeâ€Scale Experiments Using Numerical Models. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008884.	1.0	16
15	Water Migration in the Subduction Mantle Wedge: A Twoâ€Phase Flow Approach. Journal of Geophysical Research: Solid Earth, 2019, 124, 9208-9225.	1.4	21
16	Salt dÃ©collement and rift inheritance controls on crustal deformation in orogens. Terra Nova, 2019, 31, 562-568.	0.9	12
17	Mountain Building or Backarc Extension in Oceanâ€Continent Subduction Systems: A Function of Backarc Lithospheric Strength and Absolute Plate Velocities. Journal of Geophysical Research: Solid Earth, 2019, 124, 7461-7482.	1.4	13
18	Reply to: Discussion of â€œEocene to mid-Pliocene landscape evolution in Scandinavia inferred from offshore sediment volumes and pre-glacial topography using inverse modelingâ€•(Pedersen et al. 2018,) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	1

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19	Evolving paleotopography and lithospheric flexure of the Pyrenean Orogen from 3D flexural modeling and basin analysis. Earth and Planetary Science Letters, 2019, 515, 26-37.	1.8	30
20	Control of increased sedimentation on orogenic fold-and-thrust belt structure â€“ insights into the evolution of the Western Alps. Solid Earth, 2019, 10, 391-404.	1.2	17
21	Longâ€Term Coupling and Feedback Between Tectonics and Surface Processes During Nonâ€Volcanic Rifted Margin Formation. Journal of Geophysical Research: Solid Earth, 2019, 124, 12323-12347.	1.4	31
22	Et ungt landskab i et gammelt fjeld. Naturen, 2019, 143, 159-165.	0.0	0
23	Drainage integration and sediment dispersal in active continental rifts: A numerical modelling study of the central Italian Apennines. Basin Research, 2018, 30, 965-989.	1.3	35
24	Insights Into the Crustalâ€Scale Dynamics of a Doubly Vergent Orogen From a Quantitative Analysis of Its Forelands: A Case Study of the Eastern Pyrenees. Tectonics, 2018, 37, 450-476.	1.3	69
25	Eocene to mid-Pliocene landscape evolution in Scandinavia inferred from offshore sediment volumes and pre-glacial topography using inverse modelling. Geomorphology, 2018, 303, 467-485.	1.1	15
26	The Wilson Cycle and Effects of Tectonic Structural Inheritance on Rifted Passive Margin Formation. Tectonics, 2018, 37, 3085-3101.	1.3	24
27	Crustal structure and evolution of the Arctic Caledonides: Results from controlled-source seismology. Tectonophysics, 2017, 718, 9-24.	0.9	12
28	Orogen-scale uplift in the central Italian Apennines drives episodic behaviour of earthquake faults. Scientific Reports, 2017, 7, 44858.	1.6	90
29	Alpine exhumation of the central Cantabrian Mountains, Northwest Spain. Tectonics, 2016, 35, 339-356.	1.3	36
30	Isostatic and dynamic support of high topography on a North Atlantic passive margin. Earth and Planetary Science Letters, 2016, 446, 1-9.	1.8	27
31	Firstâ€order control of syntectonic sedimentation on crustalâ€scale structure of mountain belts. Journal of Geophysical Research: Solid Earth, 2015, 120, 5362-5377.	1.4	29
32	Threeâ€dimensional numerical simulations of crustal systems undergoing orogeny and subjected to surface processes. Geochemistry, Geophysics, Geosystems, 2014, 15, 4936-4957.	1.0	28
33	Rifted continental margins: The case for depth-dependent extension. Earth and Planetary Science Letters, 2014, 407, 148-162.	1.8	132
34	Lateral variation in structural style of mountain building: controls of rheological and rift inheritance. Terra Nova, 2014, 26, 201-207.	0.9	51
35	Controls of initial topography on temporal and spatial patterns of glacial erosion. Geomorphology, 2014, 223, 96-116.	1.1	32
36	Evaluating balanced section restoration with thermochronology data: A case study from the Central Pyrenees. Tectonics, 2014, 33, 617-634.	1.3	17

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37	Effects of lithosphere buckling on subsidence and hydrocarbon maturation: A case-study from the ultra-deep East Barents Sea basin. Earth and Planetary Science Letters, 2014, 407, 123-133.	1.8	14
38	Extensional inheritance and surface processes as controlling factors of mountain belt structure. Journal of Geophysical Research: Solid Earth, 2014, 119, 9042-9061.	1.4	58
39	Rifting assisted by shear heating and formation of the Lomonosov Ridge. Earth and Planetary Science Letters, 2013, 373, 31-40.	1.8	16
40	Syntectonic sedimentation effects on the growth of fold-and-thrust belts. Geology, 2013, 41, 83-86.	2.0	89
41	Control of lithosphere rheology on subduction polarity at initiation: Insights from 3D analogue modelling. Earth and Planetary Science Letters, 2013, 361, 219-228.	1.8	6
42	3D numerical modelling of graben interaction and linkage: a case study of the Canyonlands grabens, Utah. Basin Research, 2013, 25, 436-449.	1.3	11
43	Formation of intracratonic basins by lithospheric shortening and phase changes: a case study from the ultraâ€deep East Barents Sea basin. Terra Nova, 2013, 25, 459-464.	0.9	21
44	Syntectonic sedimentation controls on the evolution of the southern Pyrenean foldâ€andâ€thrust belt: Inferences from coupled tectonicâ€surface processes models. Journal of Geophysical Research: Solid Earth, 2013, 118, 5665-5680.	1.4	34
45	Bimodal Plioâ€"Quaternary glacial erosion of fjords and low-relief surfaces in Scandinavia. Nature Geoscience, 2012, 5, 635-639.	5.4	81
46	Low seismic velocities below midâ€ocean ridges: Attenuation versus melt retention. Journal of Geophysical Research, 2012, 117, .	3.3	52
47	Structural styles of mountain building: Controls of lithospheric rheologic stratification and extensional inheritance. Journal of Geophysical Research, 2012, 117, .	3.3	76
48	On the origin of the ultradeep East Barents Sea basin. Journal of Geophysical Research, 2012, 117, .	3.3	22
49	Factors controlling the mode of rift interaction in brittleâ€ductile coupled systems: A 3D numerical study. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	64
50	Three-dimensional numerical modeling of upper crustal extensional systems. Journal of Geophysical Research, 2011, 116, .	3.3	45
51	Depth-dependent extension, two-stage breakup and cratonic underplating at rifted margins. Nature, 2011, 473, 74-78.	13.7	481
52	Dynamical modelling of lithospheric extension and small-scale convection: implications for magmatism during the formation of volcanic rifted margins. Geophysical Journal International, 2009, 176, 327-350.	1.0	49
53	Dissipation analysis as a guide to mode selection during crustal extension and implications for the styles of sedimentary basins. Journal of Geophysical Research, 2008, 113, .	3.3	45
54	DOUAR: A new three-dimensional creeping flow numerical model for the solution of geological problems. Physics of the Earth and Planetary Interiors, 2008, 171, 76-91.	0.7	101

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55	Thinning of continental backarc lithosphere by flow-induced gravitational instability. Earth and Planetary Science Letters, 2008, 269, 436-447.	1.8	71
56	Complex rifted continental margins explained by dynamical models of depth-dependent lithospheric extension. Geology, 2008, 36, 163.	2.0	140
57	Roles of lithospheric strain softening and heterogeneity in determining the geometry of rifts and continental margins. Geological Society Special Publication, 2007, 282, 111-138.	0.8	77
58	The fate of subducted sediments: A case for backarc intrusion and underplating. Geology, 2007, 35, 1111.	2.0	110
59	A numerical model for coupled fluid flow and matrix deformation with applications to disequilibrium compaction and delta stability. Journal of Geophysical Research, 2007, 112, .	3.3	86
60	Effect of plastic-viscous layering and strain softening on mode selection during lithospheric extension. Journal of Geophysical Research, 2005, 110, .	3.3	94
61	Symmetric and asymmetric lithospheric extension: Relative effects of frictional-plastic and viscous strain softening. Journal of Geophysical Research, 2003, 108, .	3.3	235
62	Asymmetric lithospheric extension: The role of frictional plastic strain softening inferred from numerical experiments. Geology, 2002, 30, 211.	2.0	126
63	The Transylvanian basin, transfer zone between coeval extending and contracting regions: Inferences on the relative importance of slab pull and rift push in arc-back arc systems. Tectonics, 2002, 21, 2-1-2-18.	1.3	11
64	Dynamic modeling of the transition from passive to active rifting, application to the Pannonian Basin. Tectonics, 2001, 20, 1021-1039.	1.3	96
65	Melt generation at volcanic continental margins: No need for a mantle plume?. Geophysical Research Letters, 2001, 28, 3995-3998.	1.5	98
66	Transition from passive to active rifting: Relative importance of asthenospheric doming and passive extension of the lithosphere. Journal of Geophysical Research, 2001, 106, 11271-11291.	3.3	153
67	Structural evolution of the Transylvanian Basin (Romania): a sedimentary basin in the bend zone of the Carpathians. Tectonophysics, 1997, 272, 249-268.	0.9	48
68	Northeast Atlantic breakup volcanism and consequences for Paleogene climate change â€“ MagellanPlus Workshop report. Scientific Drilling, 0, 26, 69-85.	1.0	6