

Jonas Kley

List of Publications by Year in descending order

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64
papers

2,766
citations

279701

23
h-index

197736

49
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96
all docs

96
docs citations

96
times ranked

1804
citing authors

#	ARTICLE	IF	CITATIONS
1	Along-strike segmentation of the Andean foreland: causes and consequences. <i>Tectonophysics</i> , 1999, 301, 75-94.	0.9	292
2	Tectonic shortening and crustal thickness in the Central Andes: How good is the correlation?. <i>Geology</i> , 1998, 26, 723.	2.0	253
3	Late Cretaceous intraplate thrusting in central Europe: Effect of Africa-Iberia-Europe convergence, not Alpine collision. <i>Geology</i> , 2008, 36, 839.	2.0	218
4	Deformation of the Central Andean Upper Plate System – Facts, Fiction, and Constraints for Plateau Models. , 2006, , 3-27.		178
5	Transition from basement-involved to thin-skinned thrusting in the Cordillera Oriental of southern Bolivia. <i>Tectonics</i> , 1996, 15, 763-775.	1.3	156
6	Tectonic inversion in the Santa Barbara System of the central Andean foreland thrust belt, northwestern Argentina. <i>Tectonics</i> , 2002, 21, 11-1-11-18.	1.3	125
7	Geologic and geometric constraints on a kinematic model of the Bolivian orocline. <i>Journal of South American Earth Sciences</i> , 1999, 12, 221-235.	0.6	96
8	Pre-Andean and Andean-age deformation in the Eastern Cordillera of southern Bolivia. <i>Journal of South American Earth Sciences</i> , 1997, 10, 1-19.	0.6	94
9	Seismic and field evidence for selective inversion of Cretaceous normal faults, Salta rift, northwest Argentina. <i>Tectonophysics</i> , 2005, 399, 155-172.	0.9	88
10	The role of inherited extensional fault segmentation and linkage in contractional orogenesis: a reconstruction of Lower Cretaceous inverted rift basins in the Eastern Cordillera of Colombia. <i>Basin Research</i> , 2009, 21, 111-137.	1.3	87
11	Structure and Cenozoic kinematics of the Eastern Cordillera, southern Bolivia (21°S). <i>Tectonics</i> , 2002, 21, 1-1-1-24.	1.3	86
12	Unsteady evolution of the Bolivian Subandean thrust belt: The role of enhanced erosion and clastic wedge progradation. <i>Earth and Planetary Science Letters</i> , 2009, 281, 134-146.	1.8	74
13	Crustal balance and crustal flux from shortening estimates in the Central Andes. <i>Earth and Planetary Science Letters</i> , 2005, 230, 113-124.	1.8	71
14	Salt diapirism driven by differential loading – Some insights from analogue modelling. <i>Tectonophysics</i> , 2013, 591, 83-97.	0.9	69
15	Consistency of geologic and geodetic displacements during Andean orogenesis. <i>Geophysical Research Letters</i> , 2002, 29, 29-1-29-4.	1.5	61
16	North America’s Midcontinent Rift: When rift met LIP. , 2015, 11, 1607-1616.		56
17	Maximum depositional age of the Neoproterozoic Jacobsville Sandstone, Michigan: Implications for the evolution of the Midcontinent Rift. , 2016, 12, 1271-1282.		54
18	Insights from North America's failed Midcontinent Rift into the evolution of continental rifts and passive continental margins. <i>Tectonophysics</i> , 2018, 744, 403-421.	0.9	49

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19	Basement-involved blind thrusting in the eastern Cordillera Oriental, southern Bolivia: evidence from cross-sectional balancing, gravimetric and magnetotelluric data. <i>Tectonophysics</i> , 1996, 259, 171-184.	0.9	47
20	Preserved extensional structures in an inverted Cretaceous rift basin, northwestern Argentina: Outcrop examples and implications for fault reactivation. <i>Tectonics</i> , 2008, 27, .	1.3	42
21	Analogue experiments of salt flow and pillow growth due to basement faulting and differential loading. <i>Solid Earth</i> , 2015, 6, 9-31.	1.2	35
22	The geometry of the central Andean backarc crust: Joint interpretation of cross-section balancing and seismic refraction data. <i>Journal of South American Earth Sciences</i> , 1997, 10, 99-110.	0.6	33
23	An unusual triangle zone in the external northern Alpine foreland (Switzerland): Structural inheritance, kinematics and implications for the development of the adjacent Jura fold-and-thrust belt. <i>Tectonophysics</i> , 2016, 670, 127-143.	0.9	33
24	Timing and spatial patterns of Cretaceous and Cenozoic inversion in the Southern Permian Basin. <i>Geological Society Special Publication</i> , 2018, 469, 19-31.	0.8	28
25	Dawn and dusk of Late Cretaceous basin inversion in central Europe. <i>Solid Earth</i> , 2021, 12, 1443-1471.	1.2	28
26	Carbonate diagenesis and feldspar alteration in fracture-related bleaching zones (Buntsandstein,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Earth Sciences</i> , 2012, 101, 159-176.	0.9	25
27	¹⁰ Be exposure dating of river terraces at the southern mountain front of the Dzungarian Alatau (SE Kazakhstan) reveals rate of thrust faulting over the past ~ 400 ka. <i>Quaternary Research</i> , 2014, 81, 168-178.	1.0	25
28	Late Palaeozoic to Early Cenozoic geological evolution of the northwestern German North Sea (Entenschnabel): New results and insights. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2014, 93, 147-174.	0.6	24
29	Late Cretaceous to Paleogene exhumation in central Europe – localized inversion vs. large-scale domal uplift. <i>Solid Earth</i> , 2021, 12, 935-958.	1.2	23
30	Improving 2D seismic interpretation in challenging settings by integration of restoration techniques: A case study from the Jura fold-and-thrust belt (Switzerland). <i>Interpretation</i> , 2015, 3, SAA37-SAA58.	0.5	20
31	Is the ‘Grenville Front’ in the central United States really the Midcontinent Rift?. <i>GSA Today</i> , 2018, , 4-10.	1.1	20
32	Mass-transport deposits and reservoir quality of Upper Cretaceous Chalk within the German Central Graben, North Sea. <i>International Journal of Earth Sciences</i> , 2016, 105, 797-818.	0.9	19
33	Intraplate brittle deformation and states of paleostress constrained by fault kinematics in the central German platform. <i>Tectonophysics</i> , 2017, 694, 146-163.	0.9	19
34	Thick-skinned thrusting in the northern Tien Shan foreland, Kazakhstan: structural inheritance and polyphase deformation. <i>Geological Society Special Publication</i> , 2013, 377, 19-42.	0.8	17
35	Identification of maars and similar volcanic landforms in the West Eifel Volcanic Field through image processing of DTM data: efficiency of different methods depending on preservation state. <i>International Journal of Earth Sciences</i> , 2013, 102, 875-901.	0.9	16
36	The timing of salt structure growth in the Southern Permian Basin (Central Europe) and implications for basin dynamics. <i>Basin Research</i> , 2019, 31, 337-360.	1.3	16

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37	Dynamics of prolonged salt movement in the Glückstadt Graben (NW Germany) driven by tectonic and sedimentary processes. <i>International Journal of Earth Sciences</i> , 2017, 106, 131-155.	0.9	15
38	The Carboniferous Arc of the North Pamir. <i>Lithosphere</i> , 2021, 2021, .	0.6	15
39	Rating of seismicity and reconstruction of the fault geometries in northern Tien Shan within the project "Seismic Hazard Assessment for Almaty". <i>Journal of Geodynamics</i> , 2009, 48, 269-278.	0.7	14
40	Thermochronological constraints of the exhumation and uplift of the Sierra de Pie de Palo, NW Argentina. <i>Journal of South American Earth Sciences</i> , 2013, 48, 209-219.	0.6	13
41	Cenozoic evolution of the Pamir and Tien Shan mountains reflected in syntectonic deposits of the Tajik Basin. <i>Geological Society Special Publication</i> , 2017, 427, 523-564.	0.8	13
42	"Saxonian tectonics" in the 21st century. <i>Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften</i> , 2013, 164, 295-311.	0.1	12
43	How Alpine or Himalayan are the Central Andes?. <i>International Journal of Earth Sciences</i> , 1999, 88, 175-189.	0.9	11
44	Turning the Orogenic Switch: Slab Reversal in the Eastern Alps Recorded by Low Temperature Thermochronology. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092121.	1.5	11
45	Impact of Late Cretaceous inversion and Cenozoic extension on salt structure growth in the Baltic sector of the North German Basin. <i>Basin Research</i> , 2022, 34, 220-250.	1.3	9
46	Rapid Quaternary subsidence in the northwestern German North Sea. <i>Scientific Reports</i> , 2018, 8, 11524.	1.6	7
47	The Subhercynian Basin: an example of an intraplate foreland basin due to a broken plate. <i>Solid Earth</i> , 2021, 12, 2425-2438.	1.2	7
48	The Finne fault zone (central Germany): structural analysis of a partially inverted extensional fault zone by balanced cross-sections. <i>International Journal of Earth Sciences</i> , 2012, 101, 2167-2182.	0.9	6
49	Kommentar zu „Nördliche Harzrandstörung: Diskussionsbeiträge zu Tiefenstruktur, Zeitlichkeit und Kinematik von Volker Wrede (ZDGG 159/2: 293316). <i>Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften</i> , 2009, 160, 93-99.	0.1	5
50	Along-strike variations in thin-skinned thrusting style controlled by pre-existing basement structure in the easternmost Jura Mountains (Northern Switzerland). <i>Geological Society Special Publication</i> , 2020, 490, 199-220.	0.8	5
51	Calcite U-Pb dating of altered ancient oceanic crust in the North Pamir, Central Asia. <i>Geochronology</i> , 2022, 4, 227-250.	1.0	5
52	Identification of volcanic landforms in a Digital Terrain Model (DTM) of the Westeifel. <i>Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften</i> , 2008, 159, 657-670.	0.1	4
53	Comparison of GPS, Seismological, and Geological Observations of Andean Mountain Building. <i>Geodynamic Series</i> , 2013, , 123-133.	0.1	4
54	Combined geological and gravimetric mapping and modelling for an improved understanding of observed high-resolution gravity variations: a case study for the Global Geodynamics Project (GGP) station Moxa, Germany. <i>International Journal of Earth Sciences</i> , 2013, 102, 1257-1270.	0.9	3

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55	Salt flow direction and velocity during subsalt normal faulting and syn-kinematic sedimentationâ€™ implications from analytical calculations. Geophysical Journal International, 2018, 213, 115-134.	1.0	3
56	Maximum depositional age of the Neoproterozoic Jacobsville Sandstone, Michigan: Implications for the evolution of the Midcontinent Rift: REPLY. , 2018, 14, 1382-1384.		3
57	Subduction and Mountain Building in the Central Andes. , 2007, , 624-660.		2
58	Towards a Dynamical Model of Marsâ€™ Evolution. , 2010, , 485-510.		1
59	Exploring Natural Hazard Policies with Bike Helmets and Bus Fares. Eos, 2015, 96, .	0.1	1
60	Hans Stille in GÃ¼ttingen. Global Tectonics and Metallogeny, 2018, 10, 61-65.	0.9	1
61	Emplacement of â€™exoticâ€™ Zechstein slivers along the inverted Sontra Graben (northern Hessen,) Tj ETQq1 1 0.784314 rgBT /Overbo 12, 1005-1024.	1.2	0
62	A Forward Model of Mantle Convection with Evolving Continents and a Model of the Andean Subduction Orogen. , 2013, , 473-501.		0
63	Regional and applied geology â€™ The focus of ZDGG/Journal of Applied and Regional Geology for more than 170 years. Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2020, 171, 423-427.	0.1	0
64	Andean Orogeny and Plate Generation. , 2009, , 559-583.		0