

# Nina Kukowski

## List of Publications by Year in descending order

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37  
papers

1,604  
citations

430874

18  
h-index

345221

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1515  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of analogue material properties on the geometry, kinematics, and dynamics of convergent sand wedges. <i>Journal of Structural Geology</i> , 2003, 25, 1691-1711.	2.3	293
2	Cyclical behavior of thrust wedges: Insights from high basal friction sandbox experiments. <i>Geology</i> , 1996, 24, 135.	4.4	161
3	Morphotectonics and mechanics of the central Makran accretionary wedge off Pakistan. <i>Marine Geology</i> , 2001, 173, 1-19.	2.1	129
4	Material transfer in accretionary wedges from analysis of a systematic series of analog experiments. <i>Journal of Structural Geology</i> , 1998, 20, 407-416.	2.3	123
5	New seismic images of the Cascadia subduction zone from cruise SO108 "ORWELL". <i>Tectonophysics</i> , 1998, 293, 69-84.	2.2	100
6	Focused fluid flow on the Hikurangi Margin, New Zealand "Evidence from possible local upwarping of the base of gas hydrate stability". <i>Marine Geology</i> , 2010, 272, 99-113.	2.1	94
7	Mechanical decoupling and basal duplex formation observed in sandbox experiments with application to the Western Mediterranean Ridge accretionary complex. <i>Marine Geology</i> , 2002, 186, 29-42.	2.1	75
8	Salt diapirism driven by differential loading "Some insights from analogue modelling". <i>Tectonophysics</i> , 2013, 591, 83-97.	2.2	69
9	The interaction of two indenters in analogue experiments and implications for curved fold-and-thrust belts. <i>Earth and Planetary Science Letters</i> , 2011, 302, 132-146.	4.4	68
10	The link between bottom-simulating reflections and methane flux into the gas hydrate stability zone "new evidence from Lima Basin, Peru Margin". <i>Earth and Planetary Science Letters</i> , 2001, 185, 343-354.	4.4	54
11	Initiation and development of pull-apart basins with Riedel shear mechanism: insights from scaled clay experiments. <i>International Journal of Earth Sciences</i> , 2006, 95, 225-238.	1.8	48
12	Interplate earthquakes as a driver of shallow subduction erosion. <i>Geology</i> , 2010, 38, 431-434.	4.4	43
13	Analogue experiments of salt flow and pillow growth due to basement faulting and differential loading. <i>Solid Earth</i> , 2015, 6, 9-31.	2.8	35
14	Thermal and exhumation history of the Coastal Cordillera arc of northern Chile revealed by thermochronological dating. <i>Tectonophysics</i> , 2010, 495, 48-66.	2.2	30
15	Morphotectonic and morphometric analysis of the Nazca plate and the adjacent offshore Peruvian continental slope "Implications for submarine landscape evolution". <i>Marine Geology</i> , 2008, 254, 107-120.	2.1	29
16	Morphometric and critical taper analysis of the Rock Garden region, Hikurangi Margin, New Zealand: Implications for slope stability and potential tsunami generation. <i>Marine Geology</i> , 2010, 272, 141-153.	2.1	26
17	Distant effects in bivergent orogenic belts "How retro-wedge erosion triggers resource formation in pro-foreland basins". <i>Earth and Planetary Science Letters</i> , 2008, 273, 28-37.	4.4	24
18	Performance of piezoelectric transducers in terms of amplitude and waveform. <i>Geophysics</i> , 2009, 74, T33-T45.	2.6	21

#	ARTICLE	IF	CITATIONS
19	On the ascent and emplacement of granitoid magma bodies dynamic-thermal numerical models. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1990, 79, 227-239.	1.3	16
20	Thermo-hydraulics of the Peruvian accretionary complex at 12°S. <i>Journal of Geodynamics</i> , 1999, 27, 373-402.	1.6	16
21	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.	2.7	16
22	Complex BSR pattern in the Yaquina Basin off Peru. <i>Geo-Marine Letters</i> , 2003, 23, 91-101.	1.1	15
23	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.	1.8	15
24	Numerical modelling of focussed fluid flow in the Cascadia accretionary wedge. <i>Journal of Geodynamics</i> , 1999, 27, 359-372.	1.6	13
25	Volcano-tectonic structures and CO <sub>2</sub> -degassing patterns in the Laacher See basin, Germany. <i>International Journal of Earth Sciences</i> , 2015, 104, 1483-1495.	1.8	12
26	Seismic imaging of sandbox experiments – laboratory hardware setup and first reflection seismic sections. <i>Solid Earth</i> , 2013, 4, 93-104.	2.8	11
27	Newly identified strike-slip plate boundary in the northeastern Arabian Sea. <i>Geology</i> , 2000, 28, 355-358.	4.4	10
28	Material transfer and its influence on the formation of slope basins along the South Central Chilean convergent margin: Insights from scaled sandbox experiments. <i>Tectonophysics</i> , 2011, 513, 20-36.	2.2	9
29	Influence of recent depositional and tectonic controls on marine gas hydrates in Trujillo Basin, Peru Margin. <i>Marine Geology</i> , 2013, 340, 30-48.	2.1	9
30	Subsurface aquifer heterogeneities of Lower Triassic clastic sediments in central Germany. <i>Marine and Petroleum Geology</i> , 2018, 97, 209-222.	3.3	9
31	Capability of low-temperature SQUID for transient electromagnetics under anthropogenic noise conditions. <i>Geophysics</i> , 2018, 83, E371-E383.	2.6	9
32	Fluid-overpressure Driven Sediment Mobilisation and Its Risk for the Integrity for CO <sub>2</sub> Storage Sites – An Analogue Modelling Approach. <i>Energy Procedia</i> , 2017, 114, 3291-3304.	1.8	5
33	The Formation of Forced Folds and Wing-Like Sand Intrusions Driven by Pore Fluid Overpressure: Implications From 2D Experimental Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12277-12303.	3.4	4
34	Analogue modelling of leakage processes in unconsolidated sediments. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102805.	4.6	4
35	Material transfer and subduction channel segmentation at erosive continental margins: Insights from scaled analogue experiments. <i>Tectonophysics</i> , 2018, 749, 46-61.	2.2	3
36	Cenozoic increase in subduction erosion during plate convergence variability along the convergent margin off Trujillo, Peru. <i>Tectonophysics</i> , 2020, 790, 228557.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Patterns and Failure Modes of Fractures Resulting From Forced Folding of Cohesive Caprocks – Comparison of 2D vs. 3D and Single-vs. Multi-Layered Analog Experiments. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	3