Klaus Grosfeld

List of Publications by Year
in descending order

24 papers	553 citations	567281 15 h-index	677142 22 g-index
26 all docs	26 docs citations	26 times ranked	896 citing authors

#	Article	IF	Citations
1	Ocean temperature thresholds for Last Interglacial West Antarctic Ice Sheet collapse. Geophysical Research Letters, 2016, 43, 2675-2682.	4.0	57
2	Ocean circulation beneath Filchner-Ronne Ice Shelf from three-dimensional model results. Journal of Geophysical Research, 1999, 104, 15827-15842.	3.3	42
3	Modelling the Antarctic Ice Sheet across the mid-Pleistocene transition â€“ implications for Oldest Ice. Cryosphere, 2019, 13, 2023-2041.	3.9	42
4	Interaction between ice sheet dynamics and subglacial lake circulation: a coupled modelling approach. Cryosphere, 2010, 4, 1-12.	3.9	38
5	RIMBAY â€“ a multi-approximation 3D ice-dynamics model for comprehensive applications: model description and examples. Geoscientific Model Development, 2014, 7, 1-21.	3.6	35
6	The evolution of a coupled ice shelfâ€“ocean system under different climate states. Global and Planetary Change, 2004, 42, 107-132.	3.5	31
7	Influence of the opening of the Drake Passage on the Cenozoic Antarctic Ice Sheet: A modeling approach. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 339-341, 66-73.	2.3	30
8	Impact of the Eastern Weddell Ice Shelves on water masses in the eastern Weddell Sea. Journal of Geophysical Research, 2006, 111, .	3.3	27
9	Modelling mixing and circulation in subglacial Lake Vostok, Antarctica. Ocean Dynamics, 2007, 57, 531-540.	2.2	25
10	The relative role of oceanic heat transport and orography on glacial climate. Quaternary Science Reviews, 2006, 25, 832-845.	3.0	23
11	Ice-flow sensitivity to boundary processes: a coupled model study in the Vostok Subglacial Lake area, Antarctica. Annals of Glaciology, 2012, 53, 173-180.	1.4	23
12	Modelling accreted ice in subglacial Lake Vostok, Antarctica. Geophysical Research Letters, 2008, 35, .	4.0	21
13	Sensitivity of subglacial Lake Vostok's flow regime on environmental parameters. Earth and Planetary Science Letters, 2008, 269, 242-247.	4.4	20
14	Future sea-level rise due to projected ocean warming beneath the Filchner Ronne Ice Shelf: A coupled model study. Earth and Planetary Science Letters, 2015, 431, 217-224.	4.4	20
15	The Deformational Response of a Viscoelastic Solid Earth Model Coupled to a Thermomechanical Ice Sheet Model. Surveys in Geophysics, 2014, 35, 1441-1458.	4.6	19
16	Northern Hemisphere atmospheric blocking in ice core accumulation records from northern Greenland. Geophysical Research Letters, 2007, 34, .	4.0	16
17	A comment on the Equation of State and the freezing point equation with respect to subglacial lake modelling. Earth and Planetary Science Letters, 2010, 294, 80-84.	4.4	14
18	Assessing the subglacial lake coverage of Antarctica. Annals of Glaciology, 2016, 57, 109-117.	1.4	14

#	Article	IF	Citations
19	Modelling flow and accreted ice in subglacial Lake Concordia, Antarctica. Earth and Planetary Science Letters, 2009, 286, 278-284.	4.4	13
20	Impact of ice-shelf basal melting on inland ice-sheet thickness: a model study. Annals of Glaciology, 2012, 53, 129-135.	1.4	13
21	The impact of Atlantic and Pacific Ocean sea surface temperature anomalies on the North Atlantic multidecadal variability. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 728-741.	1.7	12
22	The "tipping" temperature within Subglacial Lake Ellsworth, West Antarctica and its implications for lake access. Cryosphere, 2011, 5, 561-567.	3.9	8
23	Modelling the impact of ocean warming on melting and water masses of ice shelves in the Eastern Weddell Sea. Ocean Dynamics, 2010, 60, 479-489.	2.2	7
24	Deriving evaluation indicators for knowledge transfer and dialogue processes in the context of climate research. Advances in Science and Research, 0, 14, 313-322.	1.0	3