

Hugo Beltrami

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,527
citations

159525

30
h-index

206029

48
g-index

79
all docs

79
docs citations

79
times ranked

2012
citing authors

#	ARTICLE	IF	CITATIONS
1	WRF v.3.9 sensitivity to land surface model and horizontal resolution changes over North America. <i>Geoscientific Model Development</i> , 2022, 15, 413-428.	1.3	7
2	Near-surface soil thermal regime and land-air temperature coupling: A case study over Spain. <i>International Journal of Climatology</i> , 2022, 42, 7516-7534.	1.5	2
3	Long-term global ground heat flux and continental heat storage from geothermal data. <i>Climate of the Past</i> , 2021, 17, 451-468.	1.3	17
4	First assessment of the earth heat inventory within CMIP5 historical simulations. <i>Earth System Dynamics</i> , 2021, 12, 581-600.	2.7	7
5	Lower boundary conditions in land surface models – effects on the permafrost and the carbon pools: a case study with CLM4.5. <i>Geoscientific Model Development</i> , 2020, 13, 1663-1683.	1.3	18
6	Heat stored in the Earth system: where does the energy go?. <i>Earth System Science Data</i> , 2020, 12, 2013-2041.	3.7	181
7	Land surface model influence on the simulated climatologies of temperature and precipitation extremes in the WRF v3.9 model over North America. <i>Geoscientific Model Development</i> , 2020, 13, 5345-5366.	1.3	3
8	Long-term Surface Temperature (LoST) database as a complement for GCM preindustrial simulations. <i>Climate of the Past</i> , 2019, 15, 1099-1111.	1.3	6
9	Characterization of Air and Ground Temperature Relationships within the CMIP5 Historical and Future Climate Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3903-3929.	1.2	25
10	Recent climate variations in Chile: constraints from borehole temperature profiles. <i>Climate of the Past</i> , 2018, 14, 559-575.	1.3	13
11	Impact of deforestation on subsurface temperature profiles: implications for the borehole paleoclimate record. <i>Environmental Research Letters</i> , 2017, 12, 074014.	2.2	13
12	Impacts of the Last Glacial Cycle on ground surface temperature reconstructions over the last millennium. <i>Geophysical Research Letters</i> , 2017, 44, 355-364.	1.5	5
13	Expansion of the Lyme Disease Vector <i>Ixodes Scapularis</i> in Canada Inferred from CMIP5 Climate Projections. <i>Environmental Health Perspectives</i> , 2017, 125, 057008.	2.8	54
14	Climate trends in northern Ontario and Qu�bec from borehole temperature profiles. <i>Climate of the Past</i> , 2016, 12, 2215-2227.	1.3	3
15	North American regional climate reconstruction from ground surface temperature histories. <i>Climate of the Past</i> , 2016, 12, 2181-2194.	1.3	20
16	First assessment of continental energy storage in CMIP5 simulations. <i>Geophysical Research Letters</i> , 2016, 43, 5326-5335.	1.5	24
17	Projected changes to high temperature events for Canada based on a regional climate model ensemble. <i>Climate Dynamics</i> , 2016, 46, 3163-3180.	1.7	40
18	Depth-Dependent Mineral Soil CO2 Production Processes: Sensitivity to Harvesting-Induced Changes in Soil Climate. <i>PLoS ONE</i> , 2015, 10, e0134171.	1.1	9

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19	Ground surface temperature and continental heat gain: uncertainties from underground. Environmental Research Letters, 2015, 10, 014009.	2.2	15
20	Impact of borehole depths on reconstructed estimates of ground surface temperature histories and energy storage. Journal of Geophysical Research F: Earth Surface, 2015, 120, 763-778.	1.0	8
21	Comparison of observed and general circulation model derived continental subsurface heat flux in the Northern Hemisphere. Journal of Geophysical Research, 2010, 115, .	3.3	23
22	Propagation of linear surface air temperature trends into the terrestrial subsurface. Journal of Geophysical Research, 2010, 115, .	3.3	17
23	Characterizing land surface processes: A quantitative analysis using air-ground thermal orbits. Journal of Geophysical Research, 2009, 114, .	3.3	21
24	North American climate of the last millennium: Underground temperatures and model comparison. Journal of Geophysical Research, 2008, 113, .	3.3	37
25	A new method for in situ soil gas diffusivity measurement and applications in the monitoring of subsurface CO ₂ production. Journal of Geophysical Research, 2008, 113, .	3.3	32
26	Quantification of subsurface heat storage in a GCM simulation. Geophysical Research Letters, 2008, 35, .	1.5	25
27	<i>In situ</i> incubations highlight the environmental constraints on soil organic carbon decomposition. Environmental Research Letters, 2008, 3, 044004.	2.2	25
28	Soil Profile CO ₂ concentrations in forested and clear cut sites in Nova Scotia, Canada. Forest Ecology and Management, 2007, 242, 587-597.	1.4	63
29	Effects of bottom boundary placement on subsurface heat storage: Implications for climate model simulations. Geophysical Research Letters, 2007, 34, .	1.5	62
30	Impact of horizontal groundwater flow and localized deforestation on the development of shallow temperature anomalies. Journal of Geophysical Research, 2007, 112, .	3.3	33
31	Spatial patterns of ground heat gain in the Northern Hemisphere. Geophysical Research Letters, 2006, 33, .	1.5	45
32	Subsurface temperatures during the last millennium: Model and observation. Geophysical Research Letters, 2006, 33, .	1.5	22
33	Perturbation of ground surface temperature reconstructions by groundwater flow?. Geophysical Research Letters, 2006, 33, .	1.5	37
34	Chapter 1 Mediterranean climate variability over the last centuries: A review. Developments in Earth and Environmental Sciences, 2006, 4, 27-148.	0.1	105
35	Subsurface thermal effects of land use changes. Journal of Geophysical Research, 2005, 110, .	3.3	40
36	Long-term tracking of climate change by underground temperatures. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	44

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37	Ground warming patterns in the Northern Hemisphere during the last five centuries. <i>Earth and Planetary Science Letters</i> , 2004, 227, 169-177.	1.8	52
38	Ground surface temperatures in Canada: Spatial and temporal variability. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	37
39	An examination of short- and long-term air-ground temperature coupling. <i>Global and Planetary Change</i> , 2003, 38, 291-303.	1.6	113
40	PALEOCLIMATE: Earth's Long-Term Memory. <i>Science</i> , 2002, 297, 206-207.	6.0	48
41	Climate from borehole data: Energy fluxes and temperatures since 1500. <i>Geophysical Research Letters</i> , 2002, 29, 26-1-26-4.	1.5	87
42	Soil CO ₂ production and surface flux at four climate observatories in eastern Canada. <i>Global Biogeochemical Cycles</i> , 2002, 16, 69-1-69-12.	1.9	56
43	Carbon dioxide in soil profiles: Production and temperature dependence. <i>Geophysical Research Letters</i> , 2002, 29, 11-1-11-4.	1.5	115
44	Continental heat gain in the global climate system. <i>Geophysical Research Letters</i> , 2002, 29, 8-1-8-3.	1.5	79
45	Surface heat flux histories from geothermal data: Inferences from inversion. <i>Geophysical Research Letters</i> , 2001, 28, 655-658.	1.5	10
46	Surface heat flux histories from inversion of geothermal data: Energy balance at the Earth's surface. <i>Journal of Geophysical Research</i> , 2001, 106, 21979-21993.	3.3	23
47	Foreword: Inference of climate change from geothermal data. <i>Global and Planetary Change</i> , 2001, 29, 149-152.	1.6	30
48	On the relationship between ground temperature histories and meteorological records: a report on the Pomquet station. <i>Global and Planetary Change</i> , 2001, 29, 327-348.	1.6	91
49	Energy balance at the Earth's surface: Heat flux history in eastern Canada. <i>Geophysical Research Letters</i> , 2000, 27, 3385-3388.	1.5	52
50	Active layer distortion of annual air/soil thermal orbits. <i>Permafrost and Periglacial Processes</i> , 1996, 7, 101-110.	1.5	37
51	Resolution of ground temperature histories inverted from borehole temperature data. <i>Global and Planetary Change</i> , 1995, 11, 57-70.	1.6	71
52	Records of climatic change in the Canadian Arctic: towards calibrating oxygen isotope data with geothermal data. <i>Global and Planetary Change</i> , 1995, 11, 127-138.	1.6	40
53	Reconstruction of high resolution ground temperature histories combining dendrochronological and geothermal data. <i>Earth and Planetary Science Letters</i> , 1995, 136, 437-445.	1.8	44
54	Ground temperature histories in eastern and central Canada from geothermal measurements: evidence of climatic change. <i>Global and Planetary Change</i> , 1992, 6, 167-183.	1.6	36

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55	Ground temperature histories for central and eastern Canada from geothermal measurements: Little Ice Age signature. <i>Geophysical Research Letters</i> , 1992, 19, 689-692.	1.5	70
56	Ground temperature histories in eastern and central Canada from geothermal measurements: evidence of climatic change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992, 98, 167-183.	1.0	56
57	Evidence for recent warming from perturbed geothermal gradients: examples from eastern Canada. <i>Climate Dynamics</i> , 1992, 6, 135-143.	1.7	153
58	Recent warming in eastern Canada inferred from geothermal measurements. <i>Geophysical Research Letters</i> , 1991, 18, 605-608.	1.5	121