

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	Heat stored in the Earth system: where does the energy go?. Earth System Science Data, 2020, 12, 2013-2041.	3.7	181
2	Evidence for recent warming from perturbed geothermal gradients: examples from eastern Canada. Climate Dynamics, 1992, 6, 135-143.	1.7	153
3	Recent warming in eastern Canada inferred from geothermal measurements. Geophysical Research Letters, 1991, 18, 605-608.	1.5	121
4	Carbon dioxide in soil profiles: Production and temperature dependence. Geophysical Research Letters, 2002, 29, 11-1-11-4.	1.5	115
5	An examination of short- and long-term air-ground temperature coupling. Global and Planetary Change, 2003, 38, 291-303.	1.6	113
6	Chapter 1 Mediterranean climate variability over the last centuries: A review. Developments in Earth and Environmental Sciences, 2006, 4, 27-148.	0.1	105
7	On the relationship between ground temperature histories and meteorological records: a report on the Pomquet station. Global and Planetary Change, 2001, 29, 327-348.	1.6	91
8	Climate from borehole data: Energy fluxes and temperatures since 1500. Geophysical Research Letters, 2002, 29, 26-1-26-4.	1.5	87
9	Continental heat gain in the global climate system. Geophysical Research Letters, 2002, 29, 8-1-8-3.	1.5	79
10	Resolution of ground temperature histories inverted from borehole temperature data. Global and Planetary Change, 1995, 11, 57-70.	1.6	71
11	Ground temperature histories for central and eastern Canada from geothermal measurements: Little Ice Age signature. Geophysical Research Letters, 1992, 19, 689-692.	1.5	70
12	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
13	Effects of bottom boundary placement on subsurface heat storage: Implications for climate model simulations. Geophysical Research Letters, 2007, 34, .	1.5	62
14	Ground temperature histories in eastern and central Canada from geothermal measurements: evidence of climatic change. Palaeogeography, Palaeoclimatology, Palaeoecology, 1992, 98, 167-183.	1.0	56
15	Soil CO ₂ production and surface flux at four climate observatories in eastern Canada. Global Biogeochemical Cycles, 2002, 16, 69-1-69-12.	1.9	56
16	Expansion of the Lyme Disease Vector <i>Ixodes Scapularis</i> in Canada Inferred from CMIP5 Climate Projections. Environmental Health Perspectives, 2017, 125, 057008.	2.8	54
17	Energy balance at the Earth's surface: Heat flux history in eastern Canada. Geophysical Research Letters, 2000, 27, 3385-3388.	1.5	52
18	Ground warming patterns in the Northern Hemisphere during the last five centuries. Earth and Planetary Science Letters, 2004, 227, 169-177.	1.8	52

#	ARTICLE	IF	CITATIONS
19	PALEOCLIMATE: Earth's Long-Term Memory. <i>Science</i> , 2002, 297, 206-207.	6.0	48
20	Spatial patterns of ground heat gain in the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	45
21	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
22	Long-term tracking of climate change by underground temperatures. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	44
23	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
24	Subsurface thermal effects of land use changes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	40
25	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
26	Active layer distortion of annual air/soil thermal orbits. <i>Permafrost and Periglacial Processes</i> , 1996, 7, 101-110.	1.5	37
27	Ground surface temperatures in Canada: Spatial and temporal variability. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	37
28	Perturbation of ground surface temperature reconstructions by groundwater flow?. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	37
29	North American climate of the last millennium: Underground temperatures and model comparison. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
30	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
31	Impact of horizontal groundwater flow and localized deforestation on the development of shallow temperature anomalies. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
32	A new method for in situ soil gas diffusivity measurement and applications in the monitoring of subsurface CO ₂ production. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
33	Foreword: Inference of climate change from geothermal data. <i>Global and Planetary Change</i> , 2001, 29, 149-152.	1.6	30
34	Quantification of subsurface heat storage in a GCM simulation. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	25
35	<i>In situ</i> incubations highlight the environmental constraints on soil organic carbon decomposition. <i>Environmental Research Letters</i> , 2008, 3, 044004.	2.2	25
36	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

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37	First assessment of continental energy storage in CMIP5 simulations. <i>Geophysical Research Letters</i> , 2016, 43, 5326-5335.	1.5	24
38	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
39	Comparison of observed and general circulation model derived continental subsurface heat flux in the Northern Hemisphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
40	Subsurface temperatures during the last millennium: Model and observation. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	22
41	Characterizing land surface processes: A quantitative analysis using air-ground thermal orbits. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
42	North American regional climate reconstruction from ground surface temperature histories. <i>Climate of the Past</i> , 2016, 12, 2181-2194.	1.3	20
43	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
44	Propagation of linear surface air temperature trends into the terrestrial subsurface. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
45	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
46	Ground surface temperature and continental heat gain: uncertainties from underground. <i>Environmental Research Letters</i> , 2015, 10, 014009.	2.2	15
47	Impact of deforestation on subsurface temperature profiles: implications for the borehole paleoclimate record. <i>Environmental Research Letters</i> , 2017, 12, 074014.	2.2	13
48	Recent climate variations in Chile: constraints from borehole temperature profiles. <i>Climate of the Past</i> , 2018, 14, 559-575.	1.3	13
49	Surface heat flux histories from geothermal data: Inferences from inversion. <i>Geophysical Research Letters</i> , 2001, 28, 655-658.	1.5	10
50	Depth-Dependent Mineral Soil CO ₂ Production Processes: Sensitivity to Harvesting-Induced Changes in Soil Climate. <i>PLoS ONE</i> , 2015, 10, e0134171.	1.1	9
51	Impact of borehole depths on reconstructed estimates of ground surface temperature histories and energy storage. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 763-778.	1.0	8
52	First assessment of the earth heat inventory within CMIP5 historical simulations. <i>Earth System Dynamics</i> , 2021, 12, 581-600.	2.7	7
53	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
54	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

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55	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
56	Climate trends in northern Ontario and QuÃ©bec from borehole temperature profiles. <i>Climate of the Past</i> , 2016, 12, 2215-2227.	1.3	3
57	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
58	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