

Derrick Hasterok

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

782
citations

14
h-index

27
g-index

37
ext. papers

1,083
ext. citations

5.4
avg, IF

4.86
L-index

#	Paper	IF	Citations
29	Heat production and geotherms for the continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2011 , 307, 59-70	5.3	242
28	Lithospheric dismemberment and magmatic processes of the Great Basin/Colorado Plateau transition, Utah, implied from magnetotellurics. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	77
27	A heat flow based cooling model for tectonic plates. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 34-43	3.3	74
26	Oceanic heat flow: Implications for global heat loss. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 386-395	3.5	64
25	High-resolution lithosphere viscosity and dynamics revealed by magnetotelluric imaging. <i>Science</i> , 2016 , 353, 1515-1519	33.3	40
24	On the radiogenic heat production of igneous rocks. <i>Geoscience Frontiers</i> , 2017 , 8, 919-940	6	38
23	Linking the rise of atmospheric oxygen to growth in the continental phosphorus inventory. <i>Earth and Planetary Science Letters</i> , 2018 , 489, 28-36	5.3	33
22	On the radiogenic heat production of metamorphic, igneous, and sedimentary rocks. <i>Geoscience Frontiers</i> , 2018 , 9, 1777-1794	6	28
21	Global patterns and vigor of ventilated hydrothermal circulation through young seafloor. <i>Earth and Planetary Science Letters</i> , 2013 , 380, 12-20	5.3	25
20	Global whole-rock geochemical database compilation. <i>Earth System Science Data</i> , 2019 , 11, 1553-1566	10.5	24
19	Continental thermal isostasy: 1. Methods and sensitivity. <i>Journal of Geophysical Research</i> , 2007 , 112,		21
18	Continental thermal isostasy: 2. Application to North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		20
17	Continental lithospheric temperatures: A review. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 306, 106509	2.3	15
16	Utilizing thermal isostasy to estimate sub-lithospheric heat flow and anomalous crustal radioactivity. <i>Earth and Planetary Science Letters</i> , 2016 , 450, 197-207	5.3	14
15	A new compositionally based thermal conductivity model for plutonic rocks. <i>Geophysical Journal International</i> , 2019 , 219, 1377-1394	2.6	11
14	Chemical identification of metamorphic protoliths using machine learning methods. <i>Computers and Geosciences</i> , 2019 , 132, 56-68	4.5	11
13	A 4 Ga record of granitic heat production: Implications for geodynamic evolution and crustal composition of the early Earth. <i>Precambrian Research</i> , 2019 , 331, 105375	3.9	10

12	Variations in continental heat production from 4 Ga to the present: Evidence from geochemical data. <i>Lithos</i> , 2019 , 342-343, 391-406	2.9	9
11	Heat Flow in Southern Australia and Connections With East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 5352-5370	3.6	9
10	New maps of global geological provinces and tectonic plates. <i>Earth-Science Reviews</i> , 2022 , 104069	10.2	4
9	Global whole-rock geochemical database compilation		2
8	A global Curie depth model utilising the equivalent source magnetic dipole method. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 313, 106672	2.3	2
7	Mantle heating at ca. 2 Ga by continental insulation: Evidence from granites and eclogites. <i>Geology</i> ,	5	2
6	SAGE at 30. <i>The Leading Edge</i> , 2012 , 31, 702-708	1	1
5	Thermal modelling of very long-lived (>140 Myr) high thermal gradient metamorphism as a result of radiogenic heating in the Reynolds Range, central Australia. <i>Lithos</i> , 2020 , 352-353, 105280	2.9	1
4	Thermal refraction: implications for subglacial heat flux. <i>Journal of Glaciology</i> , 2021 , 67, 875-884	3.4	1
3	Thermal Refraction: Impactions for Subglacial Heat Flux. <i>ASEG Extended Abstracts</i> , 2019 , 2019, 1-4	0.2	1
2	Isotopic modelling of Archean crustal evolution from comagmatic zirconapatite pairs. <i>Earth and Planetary Science Letters</i> , 2021 , 575, 117194	5.3	1
1	PetroChron Antarctica: A Geological Database for Interdisciplinary Use. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22,	3.6	1