

# Derrick Hasterok

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6347066/publications.pdf>

Version: 2024-02-01

33  
papers

1,313  
citations

430754

18  
h-index

477173

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat production and geotherms for the continental lithosphere. Earth and Planetary Science Letters, 2011, 307, 59-70.	1.8	357
2	Oceanic heat flow: Implications for global heat loss. Earth and Planetary Science Letters, 2011, 311, 386-395.	1.8	110
3	A heat flow based cooling model for tectonic plates. Earth and Planetary Science Letters, 2013, 361, 34-43.	1.8	101
4	Lithospheric dismemberment and magmatic processes of the Great Basinâ€“Colorado Plateau transition, Utah, implied from magnetotellurics. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	100
5	Linking the rise of atmospheric oxygen to growth in the continental phosphorus inventory. Earth and Planetary Science Letters, 2018, 489, 28-36.	1.8	64
6	On the radiogenic heat production of igneous rocks. Geoscience Frontiers, 2017, 8, 919-940.	4.3	63
7	On the radiogenic heat production of metamorphic, igneous, and sedimentary rocks. Geoscience Frontiers, 2018, 9, 1777-1794.	4.3	61
8	High-resolution lithosphere viscosity and dynamics revealed by magnetotelluric imaging. Science, 2016, 353, 1515-1519.	6.0	53
9	Global whole-rock geochemical database compilation. Earth System Science Data, 2019, 11, 1553-1566.	3.7	49
10	Continental lithospheric temperatures: A review. Physics of the Earth and Planetary Interiors, 2020, 306, 106509.	0.7	41
11	New Maps of Global Geological Provinces and Tectonic Plates. Earth-Science Reviews, 2022, 231, 104069.	4.0	36
12	Continental thermal isostasy: 1. Methods and sensitivity. Journal of Geophysical Research, 2007, 112, .	3.3	28
13	Continental thermal isostasy: 2. Application to North America. Journal of Geophysical Research, 2007, 112, .	3.3	28
14	Global patterns and vigor of ventilated hydrothermal circulation through young seafloor. Earth and Planetary Science Letters, 2013, 380, 12-20.	1.8	27
15	Variations in continental heat production from 4â€“Ga to the present: Evidence from geochemical data. Lithos, 2019, 342-343, 391-406.	0.6	25
16	Utilizing thermal isostasy to estimate sub-lithospheric heat flow and anomalous crustal radioactivity. Earth and Planetary Science Letters, 2016, 450, 197-207.	1.8	24
17	A global Curie depth model utilising the equivalent source magnetic dipole method. Physics of the Earth and Planetary Interiors, 2021, 313, 106672.	0.7	23
18	Chemical identification of metamorphic protoliths using machine learning methods. Computers and Geosciences, 2019, 132, 56-68.	2.0	19

#	ARTICLE	IF	CITATIONS
19	Heat Flow in Southern Australia and Connections With East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5352-5370.	1.0	19
20	A new compositionally based thermal conductivity model for plutonic rocks. <i>Geophysical Journal International</i> , 2019, 219, 1377-1394.	1.0	18
21	A $4\text{â}^{-}\text{Ga}$ record of granitic heat production: Implications for geodynamic evolution and crustal composition of the early Earth. <i>Precambrian Research</i> , 2019, 331, 105375.	1.2	17
22	Mantle heating at ca. 2 Ga by continental insulation: Evidence from granites and eclogites. <i>Geology</i> , 2022, 50, 91-95.	2.0	13
23	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.	0.6	10
24	PetroChron Antarctica: A Geological Database for Interdisciplinary Use. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	7
25	Thermal refraction: implications for subglacial heat flux. <i>Journal of Glaciology</i> , 2021, 67, 875-884.	1.1	6
26	Isotopic modelling of Archean crustal evolution from comagmatic zirconâ€“apatite pairs. <i>Earth and Planetary Science Letters</i> , 2021, 575, 117194.	1.8	6
27	Thermal Refraction: Impactions for Subglacial Heat Flux. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-4.	0.1	2
28	SAGE at 30. <i>The Leading Edge</i> , 2012, 31, 702-708.	0.4	1
29	Marine Heat Flow. , 2014, , 1-16.		1
30	Isostasy, Thermal. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 662-668.	0.1	1
31	Isostasy, Thermal. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 847-854.	0.1	0
32	Extensional Tectonism, Magmaticâ€“Hydrothermal Connections and Geothermal Systems of the Southwestern United States as Revealed Through Magnetotelluric Surveying. , 2010, , .		0
33	Isostasy, Thermal. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-8.	0.1	0