

# Jaupart Claude

## List of Publications by Year in Descending Order

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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.

164  
papers

11,470  
citations

58  
h-index

103  
g-index

178  
ext. papers

12,359  
ext. citations

7.1  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
164	Seismic tremor reveals active trans-crustal magmatic system beneath Kamchatka volcanoes.. <i>Science Advances</i> , <b>2022</b> , 8, eabj1571	14.3	2
163	Interactive simulation of plume and pyroclastic volcanic ejections. <i>Proceedings of the ACM on Computer Graphics and Interactive Techniques</i> , <b>2022</b> , 5, 1-15	2.3	
162	Episodicity and Migration of Low Frequency Earthquakes Modeled With Fast Fluid Pressure Transients in the Permeable Subduction Interface. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB021894	3.6	1
161	Heat flow constraints on the mafic character of Archean continental crust. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 571, 117091	5.3	3
160	Lithosphere, Continental: Thermal Structure. <i>Encyclopedia of Earth Sciences Series</i> , <b>2020</b> , 1-13	0	
159	Convection in an internally heated stratified heterogeneous reservoir. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 870, 67-105	3.7	8
158	Geochemical evidence for high volatile fluxes from the mantle at the end of the Archaean. <i>Nature</i> , <b>2019</b> , 575, 485-488	50.4	10
157	The Formation of Continental Crust from a Physics Perspective. <i>Geochemistry International</i> , <b>2018</b> , 56, 1289-1321	0.8	
156	Low-Frequency Earthquakes and Pore Pressure Transients in Subduction Zones. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,083	4.9	15
155	Fundamentals of laminar free convection in internally heated fluids at values of the Rayleigh-Roberts number up to. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 846, 966-998	3.7	10
154	Postemplacement dynamics of basaltic intrusions in the continental crust. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 966-987	3.6	10
153	Breathing of the Nevado del Ruiz volcano reservoir, Colombia, inferred from repeated seismic tomography. <i>Scientific Reports</i> , <b>2017</b> , 7, 46094	4.9	31
152	The Sudbury Huronian heat flow anomaly, Ontario, Canada. <i>Precambrian Research</i> , <b>2017</b> , 295, 187-202	3.9	2
151	The Earth's mantle in a microwave oven: thermal convection driven by a heterogeneous distribution of heat sources. <i>Experiments in Fluids</i> , <b>2017</b> , 58, 1	2.5	4
150	The fate of mafic and ultramafic intrusions in the continental crust. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 453, 131-140	5.3	10
149	Radiogenic heat production in the continental crust. <i>Lithos</i> , <b>2016</b> , 262, 398-427	2.9	66
148	The feeder system of the Toba supervolcano from the slab to the shallow reservoir. <i>Nature Communications</i> , <b>2016</b> , 7, 12228	17.4	32

147	Temperatures, Heat, and Energy in the Mantle of the Earth <b>2015</b> , 223-270		43
146	Post-orogenic thermal evolution of newborn Archean continents. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 432, 36-45	5.3	13
145	Microwave-heating laboratory experiments for planetary mantle convection. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 777, 50-67	3.7	15
144	Microwave-based, internally-heated convection: New perspectives for the heterogeneous case <b>2015</b> ,		1
143	Heat Flow and Thermal Structure of the Lithosphere <b>2015</b> , 217-253		14
142	The impact of a volcanic edifice on intrusive and eruptive activity. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 408, 1-8	5.3	50
141	The building and stabilization of an Archean Craton in the Superior Province, Canada, from a heat flow perspective. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 9130-9155	3.6	27
140	Constraints on Crustal Heat Production from Heat Flow Data <b>2014</b> , 53-73		15
139	Generation of continental rifts, basins, and swells by lithosphere instabilities. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 3080-3100	3.6	31
138	Radiogenic heat production, thermal regime and evolution of continental crust. <i>Tectonophysics</i> , <b>2013</b> , 609, 524-534	3.1	87
137	Microwave-based laboratory experiments for internally-heated mantle convection <b>2013</b> ,		9
136	The instability of continental passive margins and its effect on continental topography and heat flow. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 1817-1836	3.6	12
135	Geoneutrinos and the energy budget of the Earth. <i>Journal of Geodynamics</i> , <b>2012</b> , 54, 43-54	2.2	27
134	A lithospheric instability origin for the Cameroon Volcanic Line. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 335-336, 80-87	5.3	52
133	The initiation of subduction by crustal extension at a continental margin. <i>Geophysical Journal International</i> , <b>2012</b> , 188, 779-797	2.6	12
132	The next-generation liquid-scintillator neutrino observatory LENA. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 685-732		163
131	Temperature and rheological properties of the mantle beneath the North American craton from an analysis of heat flux and seismic data. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		20
130	Rise of volcanic plumes to the stratosphere aided by penetrative convection above large lava flows. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 301, 171-178	5.3	28

129	Magma expansion and fragmentation in a propagating dyke. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 301, 146-152	5.3	21
128	Folding in regions of extension. <i>Geophysical Journal International</i> , <b>2011</b> , 185, 1120-1134	2.6	10
127	Two models for the formation of magma reservoirs by small increments. <i>Tectonophysics</i> , <b>2011</b> , 500, 34-49	4.1	25
126	Conditions for the arrest of a vertical propagating dyke. <i>Bulletin of Volcanology</i> , <b>2011</b> , 73, 191-204	2.4	63
125	Low heat flux and large variations of lithospheric thickness in the Canadian Shield. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		35
124	The chemical composition of the Earth: Enstatite chondrite models. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 293, 259-268	5.3	302
123	Thermal regime of the lithosphere in the Canadian Shield This article is one of a series of papers published in this Special Issue on the theme Lithoprobe Parameters, processes, and the evolution of a continent.. <i>Canadian Journal of Earth Sciences</i> , <b>2010</b> , 47, 389-408	1.5	17
122	On the relationship between cycles of eruptive activity and growth of a volcanic edifice. <i>Journal of Volcanology and Geothermal Research</i> , <b>2010</b> , 194, 150-164	2.8	30
121	Thermal evolution of cratonic roots. <i>Lithos</i> , <b>2009</b> , 109, 47-60	2.9	72
120	Dynamics of magma flow near the vent: Implications for dome eruptions. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 279, 185-196	5.3	22
119	Enhanced crustal geo-neutrino production near the Sudbury Neutrino Observatory, Ontario, Canada. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 288, 301-308	5.3	21
118	Dike propagation through layered rocks. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		62
117	Magma degassing and intermittent lava dome growth. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	34
116	Transient geotherms in Archean continental lithosphere: New constraints on thickness and heat production of the subcontinental lithospheric mantle. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		42
115	Instability of a chemically dense layer heated from below and overlain by a deep less viscous fluid. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 572, 433-469	3.7	31
114	Heat Flow and Thermal Structure of the Lithosphere <b>2007</b> , 217-251		21
113	Heat Flow and Thermal Structure of the Lithosphere <b>2007</b> , 217-251		58
112	Temperatures, Heat and Energy in the Mantle of the Earth <b>2007</b> , 253-303		68

111	Secular cooling and thermal structure of continental lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 257, 83-96	5.3	33
110	Thermal evolution of the Earth: Secular changes and fluctuations of plate characteristics. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 260, 465-481	5.3	144
109	Temperatures, Heat and Energy in the Mantle of the Earth <b>2007</b> , 253-303		63
108	Crustal heat production in the Superior Province, Canadian Shield, and in North America inferred from heat flow data. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		54
107	Upper mantle velocity-temperature conversion and composition determined from seismic refraction and heat flow. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		24
106	Archean Thermal Regime and Stabilization of the Cratons. <i>Geophysical Monograph Series</i> , <b>2006</b> , 61-73	1.1	14
105	Variations of strength and localized deformation in cratons: The 1.9Ga Kapuskasing uplift, Superior Province, Canada. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 249, 216-228	5.3	18
104	Ultra-rapid formation of large volumes of evolved magma. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 250, 38-52	5.3	40
103	Heat flow, thermal regime, and elastic thickness of the lithosphere in the Trans-Hudson Orogen. <i>Canadian Journal of Earth Sciences</i> , <b>2005</b> , 42, 517-532	1.5	25
102	Caldera formation by magma withdrawal from a reservoir beneath a volcanic edifice. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 230, 273-287	5.3	32
101	Penetration of mantle plumes through depleted lithosphere. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		22
100	Some consequences of volcanic edifice destruction for eruption conditions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2005</b> , 145, 68-80	2.8	51
99	Lithospheric structure of the Canadian Shield inferred from inversion of surface-wave dispersion with thermodynamic a priori constraints. <i>Geological Society Special Publication</i> , <b>2004</b> , 239, 175-194	1.7	18
98	Likelihood of basaltic eruptions as a function of volatile content and volcanic edifice size. <i>Journal of Volcanology and Geothermal Research</i> , <b>2004</b> , 137, 201-217	2.8	22
97	Variations of surface heat flow and lithospheric thermal structure beneath the North American craton. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 223, 65-65	5.3	
96	Heat flow and deep lithospheric thermal structure at Lac de Gras, Slave Province, Canada. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	30
95	Heat flow in the Nipigon arm of the Keweenawan rift, northwestern Ontario, Canada. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	14
94	Marginal stability of thick continental lithosphere. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	12

93	Nonequilibrium temperatures and cooling rates in thick continental lithosphere. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	20
92	Variations of surface heat flow and lithospheric thermal structure beneath the North American craton. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 223, 65-77	5.3	139
91	Magma storage and horizontal dyke injection beneath a volcanic edifice. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 221, 245-262	5.3	132
90	Laminar starting plumes in high-Prandtl-number fluids. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 478, 287-298	3.7	63
89	Magma chamber behavior beneath a volcanic edifice. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		87
88	Ascent and emplacement of buoyant magma bodies in brittle-ductile upper crust. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		87
87	Heat flow in the western Superior Province of the Canadian shield. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	18
86	Temperatures at the base of the Laurentide Ice Sheet inferred from borehole temperature data. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	22
85	Constraints on Crustal Heat Production from Heat Flow Data <b>2003</b> , 65-84		43
84	The distributions of slip rate and ductile deformation in a strike-slip shear zone. <i>Geophysical Journal International</i> , <b>2002</b> , 148, 179-192	2.6	11
83	Surface heat flow, crustal temperatures and mantle heat flow in the Proterozoic Trans-Hudson Orogen, Canadian Shield. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 7-1-ETG 7-19		44
82	Simultaneous inversion of gravity and heat flow data: constraints on thermal regime, rheology and evolution of the Canadian Shield crust?. <i>Journal of Geodynamics</i> , <b>2002</b> , 34, 11-30	2.2	12
81	Marginal stability of atmospheric eruption columns and pyroclastic flow generation. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 21785-21798		30
80	Ascent and decompression of viscous vesicular magma in a volcanic conduit. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 16223-16240		30
79	What the Mantle Sees: The Effects of Continents on Mantle Heat Flow. <i>Geophysical Monograph Series</i> , <b>2000</b> , 95-112	1.1	6
78	Heat flow and deep thermal structure near the southeastern edge of the Canadian Shield. <i>Canadian Journal of Earth Sciences</i> , <b>2000</b> , 37, 399-414	1.5	82
77	Lithosphere structure beneath the Phanerozoic intracratonic basins of North America. <i>Earth and Planetary Science Letters</i> , <b>2000</b> , 178, 139-149	5.3	56
76	The effect of edifice load on magma ascent beneath a volcano. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2000</b> , 358, 1515-1532	3	133

75	Low mantle heat flow at the edge of the North American Continent, Voisey Bay, Labrador. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 823-826	4.9	39
74	The thermal structure and thickness of continental roots. <i>Lithos</i> , <b>1999</b> , 48, 93-114	2.9	263
73	The generation of gas overpressure in volcanic eruptions. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 166, 57-70	5.3	65
72	On causal links between flood basalts and continental breakup. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 166, 177-195	5.3	564
71	Heat flow in the Trans-Hudson Orogen of the Canadian Shield: Implications for Proterozoic continental growth. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 29007-29024		38
70	The thermal structure and thickness of continental roots. <i>Developments in Geotectonics</i> , <b>1999</b> , 93-114		9
69	Constraints on cooling rates and permeabilities of pumice in an explosive eruption jet from colour and magnetic mineralogy. <i>Journal of Volcanology and Geothermal Research</i> , <b>1998</b> , 86, 79-91	2.8	46
68	Large-scale crustal heterogeneities and lithospheric strength in cratons. <i>Earth and Planetary Science Letters</i> , <b>1998</b> , 164, 205-219	5.3	57
67	Dike propagation through an elastic plate. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 18295-18314		28
66	Heat flow and thickness of the lithosphere in the Canadian Shield. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 15269-15286		150
65	The size distribution of pyroclasts and the fragmentation sequence in explosive volcanic eruptions. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 29759-29779		122
64	Gas loss from magmas through conduit walls during eruption. <i>Geological Society Special Publication</i> , <b>1998</b> , 145, 73-90	1.7	58
63	Expansion and quenching of vesicular magma fragments in Plinian eruptions. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 12187-12203		49
62	Lava flow shapes and dimensions as reflections of magma system conditions. <i>Journal of Volcanology and Geothermal Research</i> , <b>1997</b> , 78, 31-50	2.8	24
61	Physical models of volcanic eruptions. <i>Chemical Geology</i> , <b>1996</b> , 128, 217-227	4.2	52
60	High heat flow in the trans-Hudson Orogen, Central Canadian Shield. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 3027-3030	4.9	28
59	The production of chemically stratified and adcumulate plutonic igneous rocks. <i>Mineralogical Magazine</i> , <b>1996</b> , 60, 99-114	1.7	55
58	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , <b>1996</b> , 58, 117-130.	2.4	141

57	Fragmentation of magma during Plinian volcanic eruptions. <i>Bulletin of Volcanology</i> , <b>1996</b> , 58, 144-162	2.4	170
56	Simple fluid dynamic models of volcanic rift zones. <i>Earth and Planetary Science Letters</i> , <b>1995</b> , 136, 223-240	5.3	25
55	Heat flow variations in the Grenville Province, Canada. <i>Earth and Planetary Science Letters</i> , <b>1995</b> , 136, 447-460	5.3	39
54	Dynamics of differentiation in magma reservoirs. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 17615-17636		95
53	On the effect of continents on mantle convection. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 24217-24238		107
52	Chapter 11a. PHYSICAL ASPECTS OF MAGMA DEGASSING I. Experimental and theoretical constraints on vesiculation <b>1994</b> , 413-446		39
51	Influence of cooling on lava-flow dynamics: Comment and Reply. <i>Geology</i> , <b>1994</b> , 22, 93	5	7
50	Reply [to Comment on Compositional convection in a reactive crystalline mush and melt differentiation] by Stephen Tait and Claude Jaupart <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 11919-11921		
49	On the vesicularity of pumice. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 15633		107
48	Onset of thermal convection in fluids with temperature-dependent viscosity: Application to the oceanic mantle. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 19853-19866		186
47	Heat flow, gravity and structure of the Abitibi belt, Superior Province, Canada: Implications for mantle heat flow. <i>Earth and Planetary Science Letters</i> , <b>1994</b> , 122, 103-123	5.3	65
46	On the variations of flow rate in non-explosive lava eruptions. <i>Earth and Planetary Science Letters</i> , <b>1993</b> , 114, 505-516	5.3	81
45	Thermal convection in lava lakes. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 1827-1830	4.9	52
44	Transient high-Rayleigh-number thermal convection with large viscosity variations. <i>Journal of Fluid Mechanics</i> , <b>1993</b> , 253, 141	3.7	307
43	Influence of cooling on lava-flow dynamics. <i>Geology</i> , <b>1993</b> , 21, 335	5	51
42	Compositional convection in a reactive crystalline mush and melt differentiation. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 6735		183
41	Steady-state operation of Stromboli volcano, Italy: constraints on the feeding system. <i>Bulletin of Volcanology</i> , <b>1992</b> , 54, 535-541	2.4	60
40	The planform of compositional convection and chimney formation in a mushy layer. <i>Nature</i> , <b>1992</b> , 359, 406-408	50.4	78



39	New Experiments on Compositional Convection <b>1992</b> , 155-158		1
38	Convection and Macrosegregation in Magma Chambers <b>1992</b> , 241-260		2
37	The Eruption and Spreading of Lava. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>1992</b> , 175-203	0.5	3
36	Effects of compressibility on the flow of lava. <i>Bulletin of Volcanology</i> , <b>1991</b> , 54, 1-9	2.4	12
35	Gas content, eruption rate and instabilities of eruption regime in silicic volcanoes. <i>Earth and Planetary Science Letters</i> , <b>1991</b> , 102, 413-429	5.3	367
34	Heat flow and structure of the lithosphere in the Eastern Canadian Shield. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 19941-19963		137
33	CHAPTER 8. DYNAMICS OF ERUPTIVE PHENOMENA <b>1990</b> , 213-238		12
32	CHAPTER 5. PHYSICAL PROCESSES IN THE EVOLUTION OF MAGMAS <b>1990</b> , 125-152		4
31	Dynamics of degassing at Kilauea Volcano, Hawaii. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 2793		141
30	Compositional convection in viscous melts. <i>Nature</i> , <b>1989</b> , 338, 571-574	50.4	80
29	The generation and collapse of a foam layer at the roof of a basaltic magma chamber. <i>Journal of Fluid Mechanics</i> , <b>1989</b> , 203, 347-380	3.7	244
28	Pressure, gas content and eruption periodicity of a shallow, crystallising magma chamber. <i>Earth and Planetary Science Letters</i> , <b>1989</b> , 92, 107-123	5.3	383
27	New heat flow density and radiogenic heat production data in the Canadian Shield and the Quebec Appalachians. <i>Canadian Journal of Earth Sciences</i> , <b>1989</b> , 26, 845-852	1.5	45
26	Laboratory models of Hawaiian and Strombolian eruptions. <i>Nature</i> , <b>1988</b> , 331, 58-60	50.4	265
25	Thermal control on post-orogenic extension in collision belts. <i>Earth and Planetary Science Letters</i> , <b>1988</b> , 89, 48-62	5.3	94
24	The vertical distribution of radiogenic heat production in the Precambrian crust of Norway and Sweden: Geothermal implications. <i>Geophysical Research Letters</i> , <b>1987</b> , 14, 260-263	4.9	97
23	A thermal model for the distribution in space and time of the Himalayan granites. <i>Earth and Planetary Science Letters</i> , <b>1987</b> , 84, 87-99	5.3	57
22	The kinetics of nucleation and crystal growth and scaling laws for magmatic crystallization. <i>Contributions To Mineralogy and Petrology</i> , <b>1987</b> , 96, 24-34	3.5	77

21	Towards Scaling Laws for the Interpretation of Igneous Structures <b>1987</b> , 327-347		2
20	Characteristic Dimensions and Times for Dynamic Crystallization <b>1987</b> , 613-639		7
19	The stagnant bottom layer of convecting magma chambers. <i>Earth and Planetary Science Letters</i> , <b>1986</b> , 80, 183-199	5.3	77
18	On the interaction between convection and crystallization in cooling magma chambers. <i>Earth and Planetary Science Letters</i> , <b>1986</b> , 77, 345-361	5.3	152
17	Separated two-phase flow and basaltic eruptions. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 12842-12860		192
16	On the thermal structure of the southern Tibetan crust. <i>Geophysical Journal International</i> , <b>1985</b> , 81, 131-155		40
15	Continental tectonics and continental kinetics. <i>Earth and Planetary Science Letters</i> , <b>1985</b> , 74, 171-186	5.3	29
14	Heat focussing, granite genesis and inverted metamorphic gradients in continental collision zones. <i>Earth and Planetary Science Letters</i> , <b>1985</b> , 73, 385-397	5.3	100
13	Convective instabilities in a variable viscosity fluid cooled from above. <i>Physics of the Earth and Planetary Interiors</i> , <b>1985</b> , 39, 14-32	2.3	63
12	High heat flow in southern Tibet. <i>Nature</i> , <b>1984</b> , 307, 32-36	50.4	138
11	Stagnant layers at the bottom of convecting magma chambers. <i>Nature</i> , <b>1984</b> , 308, 535-538	50.4	41
10	Nucleation, crystal growth and the thermal regime of cooling magmas. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 10161-10177		99
9	The effects of alteration and the interpretation of heat flow and radioactivity data – reply to R.U.M. Rao. <i>Earth and Planetary Science Letters</i> , <b>1983</b> , 62, 430-438	5.3	5
8	Horizontal heat transfer due to radioactivity contrasts: causes and consequences of the linear heat flow relation. <i>Geophysical Journal International</i> , <b>1983</b> , 75, 411-435	2.6	65
7	A detailed study of the distribution of heat flow and radioactivity in New Hampshire (U.S.A.). <i>Earth and Planetary Science Letters</i> , <b>1982</b> , 59, 267-287	5.3	49
6	Eruption at Le Piton de la Fournaise volcano on 3 February 1981. <i>Nature</i> , <b>1982</b> , 297, 395-397	50.4	29
5	Heat flow studies: Constraints on the distribution of uranium, thorium and potassium in the continental crust. <i>Earth and Planetary Science Letters</i> , <b>1981</b> , 52, 328-344	5.3	77
4	Oceans and continents: Similarities and differences in the mechanisms of heat loss. <i>Journal of Geophysical Research</i> , <b>1981</b> , 86, 11535		264

3	Oscillatory zoning: a pathological case of crystal growth. <i>Nature</i> , <b>1981</b> , 294, 223-228	50.4	198
2	The heat flow through oceanic and continental crust and the heat loss of the Earth. <i>Reviews of Geophysics</i> , <b>1980</b> , 18, 269	23.1	918
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