

# Jaupart Claude

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1418495/publications.pdf>

Version: 2024-02-01

169  
papers

13,338  
citations

20759

60  
h-index

24179

110  
g-index

178  
all docs

178  
docs citations

178  
times ranked

6516  
citing authors

#	ARTICLE	IF	CITATIONS
1	The heat flow through oceanic and continental crust and the heat loss of the Earth. <i>Reviews of Geophysics</i> , 1980, 18, 269-311.	9.0	1,078
2	On causal links between flood basalts and continental breakup. <i>Earth and Planetary Science Letters</i> , 1999, 166, 177-195.	1.8	659
3	Pressure, gas content and eruption periodicity of a shallow, crystallising magma chamber. <i>Earth and Planetary Science Letters</i> , 1989, 92, 107-123.	1.8	435
4	Gas content, eruption rate and instabilities of eruption regime in silicic volcanoes. <i>Earth and Planetary Science Letters</i> , 1991, 102, 413-429.	1.8	398
5	The chemical composition of the Earth: Enstatite chondrite models. <i>Earth and Planetary Science Letters</i> , 2010, 293, 259-268.	1.8	363
6	Oceans and continents: Similarities and differences in the mechanisms of heat loss. <i>Journal of Geophysical Research</i> , 1981, 86, 11535-11552.	3.3	349
7	Transient high-Rayleigh-number thermal convection with large viscosity variations. <i>Journal of Fluid Mechanics</i> , 1993, 253, 141.	1.4	336
8	Laboratory models of Hawaiian and Strombolian eruptions. <i>Nature</i> , 1988, 331, 58-60.	13.7	292
9	The thermal structure and thickness of continental roots. <i>Lithos</i> , 1999, 48, 93-114.	0.6	286
10	The generation and collapse of a foam layer at the roof of a basaltic magma chamber. <i>Journal of Fluid Mechanics</i> , 1989, 203, 347-380.	1.4	269
11	Oscillatory zoning: a pathological case of crystal growth. <i>Nature</i> , 1981, 294, 223-228.	13.7	232
12	Compositional convection in a reactive crystalline mush and melt differentiation. <i>Journal of Geophysical Research</i> , 1992, 97, 6735-6756.	3.3	220
13	Separated two-phase flow and basaltic eruptions. <i>Journal of Geophysical Research</i> , 1986, 91, 12842-12860.	3.3	211
14	Onset of thermal convection in fluids with temperature-dependent viscosity: Application to the oceanic mantle. <i>Journal of Geophysical Research</i> , 1994, 99, 19853-19866.	3.3	207
15	Fragmentation of magma during Plinian volcanic eruptions. <i>Bulletin of Volcanology</i> , 1996, 58, 144-162.	1.1	193
16	The next-generation liquid-scintillator neutrino observatory LENA. <i>Astroparticle Physics</i> , 2012, 35, 685-732.	1.9	181
17	Thermal evolution of the Earth: Secular changes and fluctuations of plate characteristics. <i>Earth and Planetary Science Letters</i> , 2007, 260, 465-481.	1.8	174
18	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996, 58, 117-130.	1.1	169

#	ARTICLE	IF	CITATIONS
19	Heat flow and thickness of the lithosphere in the Canadian Shield. <i>Journal of Geophysical Research</i> , 1998, 103, 15269-15286.	3.3	167
20	On the interaction between convection and crystallization in cooling magma chambers. <i>Earth and Planetary Science Letters</i> , 1986, 77, 345-361.	1.8	165
21	The effect of edifice load on magma ascent beneath a volcano. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1515-1532.	1.6	160
22	High heat flow in southern Tibet. <i>Nature</i> , 1984, 307, 32-36.	13.7	155
23	Variations of surface heat flow and lithospheric thermal structure beneath the North American craton. <i>Earth and Planetary Science Letters</i> , 2004, 223, 65-77.	1.8	152
24	Dynamics of degassing at Kilauea Volcano, Hawaii. <i>Journal of Geophysical Research</i> , 1990, 95, 2793-2809.	3.3	149
25	Heat flow and structure of the lithosphere in the Eastern Canadian Shield. <i>Journal of Geophysical Research</i> , 1991, 96, 19941-19963.	3.3	147
26	The size distribution of pyroclasts and the fragmentation sequence in explosive volcanic eruptions. <i>Journal of Geophysical Research</i> , 1998, 103, 29759-29779.	3.3	143
27	Magma storage and horizontal dyke injection beneath a volcanic edifice. <i>Earth and Planetary Science Letters</i> , 2004, 221, 245-262.	1.8	143
28	On the vesicularity of pumice. <i>Journal of Geophysical Research</i> , 1994, 99, 15633.	3.3	126
29	Radiogenic heat production, thermal regime and evolution of continental crust. <i>Tectonophysics</i> , 2013, 609, 524-534.	0.9	125
30	Ascent and emplacement of buoyant magma bodies in brittle-ductile upper crust. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	122
31	Nucleation, crystal growth and the thermal regime of cooling magmas. <i>Journal of Geophysical Research</i> , 1984, 89, 10161-10177.	3.3	118
32	On the effect of continents on mantle convection. <i>Journal of Geophysical Research</i> , 1995, 100, 24217-24238.	3.3	115
33	Dynamics of differentiation in magma reservoirs. <i>Journal of Geophysical Research</i> , 1995, 100, 17615-17636.	3.3	113
34	Heat focussing, granite genesis and inverted metamorphic gradients in continental collision zones. <i>Earth and Planetary Science Letters</i> , 1985, 73, 385-397.	1.8	106
35	Thermal control on post-orogenic extension in collision belts. <i>Earth and Planetary Science Letters</i> , 1988, 89, 48-62.	1.8	103
36	Radiogenic heat production in the continental crust. <i>Lithos</i> , 2016, 262, 398-427.	0.6	102

#	ARTICLE	IF	CITATIONS
37	The vertical distribution of radiogenic heat production in the Precambrian crust of Norway and Sweden: Geothermal implications. <i>Geophysical Research Letters</i> , 1987, 14, 260-263.	1.5	100
38	Magma chamber behavior beneath a volcanic edifice. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	100
39	The kinetics of nucleation and crystal growth and scaling laws for magmatic crystallization. <i>Contributions To Mineralogy and Petrology</i> , 1987, 96, 24-34.	1.2	95
40	Conditions for the arrest of a vertical propagating dyke. <i>Bulletin of Volcanology</i> , 2011, 73, 191-204.	1.1	89
41	Heat flow studies: Constraints on the distribution of uranium, thorium and potassium in the continental crust. <i>Earth and Planetary Science Letters</i> , 1981, 52, 328-344.	1.8	87
42	Compositional convection in viscous melts. <i>Nature</i> , 1989, 338, 571-574.	13.7	87
43	On the variations of flow rate in non-explosive lava eruptions. <i>Earth and Planetary Science Letters</i> , 1993, 114, 505-516.	1.8	87
44	The planform of compositional convection and chimney formation in a mushy layer. <i>Nature</i> , 1992, 359, 406-408.	13.7	86
45	Temperatures, Heat and Energy in the Mantle of the Earth. , 2007, , 253-303.		86
46	The stagnant bottom layer of convecting magma chambers. <i>Earth and Planetary Science Letters</i> , 1986, 80, 183-199.	1.8	85
47	Heat flow and deep thermal structure near the southeastern edge of the Canadian Shield. <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 399-414.	0.6	84
48	Measuring Heat Flux and Structure Functions of Temperature Fluctuations with an Acoustic Doppler Sodar. <i>Journal of Applied Meteorology</i> , 1980, 19, 199-205.	1.1	80
49	Temperatures, Heat, and Energy in the Mantle of the Earth. , 2015, , 223-270.		79
50	Thermal evolution of cratonic roots. <i>Lithos</i> , 2009, 109, 47-60.	0.6	78
51	Temperatures, Heat and Energy in the Mantle of the Earth. , 2007, , 253-303.		77
52	Laminar starting plumes in high-Prandtl-number fluids. <i>Journal of Fluid Mechanics</i> , 2003, 478, 287-298.	1.4	76
53	Steady-state operation of Stromboli volcano, Italy: constraints on the feeding system. <i>Bulletin of Volcanology</i> , 1992, 54, 535-541.	1.1	75
54	Heat Flow and Thermal Structure of the Lithosphere. , 2007, , 217-251.		72

#	ARTICLE	IF	CITATIONS
55	The generation of gas overpressure in volcanic eruptions. <i>Earth and Planetary Science Letters</i> , 1999, 166, 57-70.	1.8	71
56	Horizontal heat transfer due to radioactivity contrasts: causes and consequences of the linear heat flow relation. <i>Geophysical Journal International</i> , 1983, 75, 411-435.	1.0	70
57	Influence of cooling on lava-flow dynamics. <i>Geology</i> , 1993, 21, 335.	2.0	70
58	Gas loss from magmas through conduit walls during eruption. <i>Geological Society Special Publication</i> , 1998, 145, 73-90.	0.8	70
59	Dike propagation through layered rocks. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
60	Heat flow, gravity and structure of the Abitibi belt, Superior Province, Canada: Implications for mantle heat flow. <i>Earth and Planetary Science Letters</i> , 1994, 122, 103-123.	1.8	68
61	Convective instabilities in a variable viscosity fluid cooled from above. <i>Physics of the Earth and Planetary Interiors</i> , 1985, 39, 14-32.	0.7	66
62	A lithospheric instability origin for the Cameroon Volcanic Line. <i>Earth and Planetary Science Letters</i> , 2012, 335-336, 80-87.	1.8	66
63	Lithosphere structure beneath the Phanerozoic intracratonic basins of North America. <i>Earth and Planetary Science Letters</i> , 2000, 178, 139-149.	1.8	63
64	Crustal heat production in the Superior Province, Canadian Shield, and in North America inferred from heat flow data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	63
65	A thermal model for the distribution in space and time of the Himalayan granites. <i>Earth and Planetary Science Letters</i> , 1987, 84, 87-99.	1.8	62
66	Thermal convection in lava lakes. <i>Geophysical Research Letters</i> , 1993, 20, 1827-1830.	1.5	62
67	A detailed study of the distribution of heat flow and radioactivity in New Hampshire (U.S.A.). <i>Earth and Planetary Science Letters</i> , 1982, 59, 267-287.	1.8	59
68	Large-scale crustal heterogeneities and lithospheric strength in cratons. <i>Earth and Planetary Science Letters</i> , 1998, 164, 205-219.	1.8	59
69	Constraints on Crustal Heat Production from Heat Flow Data. , 2003, , 65-84.		59
70	Some consequences of volcanic edifice destruction for eruption conditions. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 145, 68-80.	0.8	59
71	The impact of a volcanic edifice on intrusive and eruptive activity. <i>Earth and Planetary Science Letters</i> , 2014, 408, 1-8.	1.8	59
72	The production of chemically stratified and adcumulate plutonic igneous rocks. <i>Mineralogical Magazine</i> , 1996, 60, 99-114.	0.6	57

#	ARTICLE	IF	CITATIONS
73	Expansion and quenching of vesicular magma fragments in Plinian eruptions. <i>Journal of Geophysical Research</i> , 1997, 102, 12187-12203.	3.3	56
74	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> , 1998, 86, 79-91.	0.8	56
75	Physical models of volcanic eruptions. <i>Chemical Geology</i> , 1996, 128, 217-227.	1.4	55
76	Surface heat flow, crustal temperatures and mantle heat flow in the Proterozoic Trans-Hudson Orogen, Canadian Shield. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 7-1-ETG 7-19.	3.3	53
77	Transient geotherms in Archean continental lithosphere: New constraints on thickness and heat production of the subcontinental lithospheric mantle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	51
78	Breathing of the Nevado del Ruiz volcano reservoir, Colombia, inferred from repeated seismic tomography. <i>Scientific Reports</i> , 2017, 7, 46094.	1.6	49
79	New heat flow density and radiogenic heat production data in the Canadian Shield and the Quebec Appalachians. <i>Canadian Journal of Earth Sciences</i> , 1989, 26, 845-852.	0.6	48
80	Heat flow in the Trans-Hudson Orogen of the Canadian Shield: Implications for Proterozoic continental growth. <i>Journal of Geophysical Research</i> , 1999, 104, 29007-29024.	3.3	47
81	Ultra-rapid formation of large volumes of evolved magma. <i>Earth and Planetary Science Letters</i> , 2006, 250, 38-52.	1.8	47
82	The feeder system of the Toba supervolcano from the slab to the shallow reservoir. <i>Nature Communications</i> , 2016, 7, 12228.	5.8	47
83	Heat flow variations in the Grenville Province, Canada. <i>Earth and Planetary Science Letters</i> , 1995, 136, 447-460.	1.8	45
84	Low mantle heat flow at the edge of the North American Continent, Voisey Bay, Labrador. <i>Geophysical Research Letters</i> , 2000, 27, 823-826.	1.5	45
85	Stagnant layers at the bottom of convecting magma chambers. <i>Nature</i> , 1984, 308, 535-538.	13.7	44
86	On the thermal structure of the southern Tibetan crust. <i>Geophysical Journal International</i> , 1985, 81, 131-155.	1.0	44
87	Chapter 11a. PHYSICAL ASPECTS OF MAGMA DEGASSING I. Experimental and theoretical constraints on vesiculation. , 1994, , 413-446.		44
88	Secular cooling and thermal structure of continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2007, 257, 83-96.	1.8	38
89	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> , 2014, 119, 9130-9155.	1.4	38
90	Magma degassing and intermittent lava dome growth. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	37

#	ARTICLE	IF	CITATIONS
91	Low heat flux and large variations of lithospheric thickness in the Canadian Shield. Journal of Geophysical Research, 2010, 115, .	3.3	36
92	Rise of volcanic plumes to the stratosphere aided by penetrative convection above large lava flows. Earth and Planetary Science Letters, 2011, 301, 171-178.	1.8	36
93	Dike propagation through an elastic plate. Journal of Geophysical Research, 1998, 103, 18295-18314.	3.3	35
94	Instability of a chemically dense layer heated from below and overlain by a deep less viscous fluid. Journal of Fluid Mechanics, 2007, 572, 433-469.	1.4	35
95	On the relationship between cycles of eruptive activity and growth of a volcanic edifice. Journal of Volcanology and Geothermal Research, 2010, 194, 150-164.	0.8	35
96	Marginal stability of atmospheric eruption columns and pyroclastic flow generation. Journal of Geophysical Research, 2001, 106, 21785-21798.	3.3	34
97	Caldera formation by magma withdrawal from a reservoir beneath a volcanic edifice. Earth and Planetary Science Letters, 2005, 230, 273-287.	1.8	34
98	Generation of continental rifts, basins, and swells by lithosphere instabilities. Journal of Geophysical Research: Solid Earth, 2013, 118, 3080-3100.	1.4	34
99	Continental tectonics and continental kinetics. Earth and Planetary Science Letters, 1985, 74, 171-186.	1.8	33
100	High heat flow in the trans-Hudson Orogen, Central Canadian Shield. Geophysical Research Letters, 1996, 23, 3027-3030.	1.5	32
101	Ascent and decompression of viscous vesicular magma in a volcanic conduit. Journal of Geophysical Research, 2001, 106, 16223-16240.	3.3	32
102	Heat Flow and Thermal Structure of the Lithosphere. , 2015, , 217-253.		32
103	Eruption at Le Piton de la Fournaise volcano on 3 February 1981. Nature, 1982, 297, 395-397.	13.7	31
104	Heat flow and deep lithospheric thermal structure at Lac de Gras, Slave Province, Canada. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	31
105	Simple fluid dynamic models of volcanic rift zones. Earth and Planetary Science Letters, 1995, 136, 223-240.	1.8	30
106	Lava flow shapes and dimensions as reflections of magma system conditions. Journal of Volcanology and Geothermal Research, 1997, 78, 31-50.	0.8	30
107	Upper mantle velocity-temperature conversion and composition determined from seismic refraction and heat flow. Journal of Geophysical Research, 2006, 111, .	3.3	29
108	Low-frequency Earthquakes and Pore Pressure Transients in Subduction Zones. Geophysical Research Letters, 2018, 45, 11,083.	1.5	29

#	ARTICLE	IF	CITATIONS
109	Two models for the formation of magma reservoirs by small increments. <i>Tectonophysics</i> , 2011, 500, 34-49.	0.9	28
110	Temperatures at the base of the Laurentide Ice Sheet inferred from borehole temperature data. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	27
111	Heat Flow and Thermal Structure of the Lithosphere. , 2007, , 217-251.		27
112	Geoneutrinos and the energy budget of the Earth. <i>Journal of Geodynamics</i> , 2012, 54, 43-54.	0.7	27
113	Lithospheric structure of the Canadian Shield inferred from inversion of surface-wave dispersion with thermodynamic a priori constraints. <i>Geological Society Special Publication</i> , 2004, 239, 175-194.	0.8	25
114	Heat flow, thermal regime, and elastic thickness of the lithosphere in the Trans-Hudson Orogen. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 517-532.	0.6	25
115	Constraints on Crustal Heat Production from Heat Flow Data. , 2014, , 53-73.		25
116	Penetration of mantle plumes through depleted lithosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	24
117	Dynamics of magma flow near the vent: Implications for dome eruptions. <i>Earth and Planetary Science Letters</i> , 2009, 279, 185-196.	1.8	24
118	Magma expansion and fragmentation in a propagating dyke. <i>Earth and Planetary Science Letters</i> , 2011, 301, 146-152.	1.8	24
119	Likelihood of basaltic eruptions as a function of volatile content and volcanic edifice size. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 201-217.	0.8	23
120	Enhanced crustal geo-neutrino production near the Sudbury Neutrino Observatory, Ontario, Canada. <i>Earth and Planetary Science Letters</i> , 2009, 288, 301-308.	1.8	22
121	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> , 2011, 116, .	3.3	22
122	Heat flow in the western Superior Province of the Canadian shield. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	20
123	Nonequilibrium temperatures and cooling rates in thick continental lithosphere. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	20
124	Variations of strength and localized deformation in cratons: The 1.9ÂGa Kapuskasing uplift, Superior Province, Canada. <i>Earth and Planetary Science Letters</i> , 2006, 249, 216-228.	1.8	20
125	Thermal regime of the lithosphere in the Canadian ShieldThis article is one of a series of papers published in this Special Issue on the theme<i>Lithoprobe â€” parameters, processes, and the evolution of a continent</i>. <i>Canadian Journal of Earth Sciences</i> , 2010, 47, 389-408.	0.6	20
126	Geochemical evidence for high volatile fluxes from the mantle at the end of the Archaean. <i>Nature</i> , 2019, 575, 485-488.	13.7	20

#	ARTICLE	IF	CITATIONS
127	Microwave-heating laboratory experiments for planetary mantle convection. <i>Journal of Fluid Mechanics</i> , 2015, 777, 50-67.	1.4	19
128	Archean thermal regime and stabilization of the cratons. <i>Geophysical Monograph Series</i> , 2006, , 61-73.	0.1	17
129	The instability of continental passive margins and its effect on continental topography and heat flow. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1817-1836.	1.4	16
130	Post-orogenic thermal evolution of newborn Archean continents. <i>Earth and Planetary Science Letters</i> , 2015, 432, 36-45.	1.8	16
131	Heat flow in the Nipigon arm of the Keweenawan rift, northwestern Ontario, Canada. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	15
132	Marginal stability of thick continental lithosphere. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	15
133	Effects of compressibility on the flow of lava. <i>Bulletin of Volcanology</i> , 1991, 54, 1-9.	1.1	14
134	The initiation of subduction by crustal extension at a continental margin. <i>Geophysical Journal International</i> , 2012, 188, 779-797.	1.0	14
135	Fundamentals of laminar free convection in internally heated fluids at values of the Rayleigh-Roberts number up to. <i>Journal of Fluid Mechanics</i> , 2018, 846, 966-998.	1.4	14
136	CHAPTER 8. DYNAMICS OF ERUPTIVE PHENOMENA. , 1990, , 213-238.		13
137	The thermal structure and thickness of continental roots. <i>Developments in Geotectonics</i> , 1999, , 93-114.	0.3	13
138	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> , 2002, 34, 11-30.	0.7	13
139	The fate of mafic and ultramafic intrusions in the continental crust. <i>Earth and Planetary Science Letters</i> , 2016, 453, 131-140.	1.8	13
140	Convection in an internally heated stratified heterogeneous reservoir. <i>Journal of Fluid Mechanics</i> , 2019, 870, 67-105.	1.4	13
141	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> , 2021, 126, e2021JB021894.	1.4	13
142	Seismic tremor reveals active trans-crustal magmatic system beneath Kamchatka volcanoes. <i>Science Advances</i> , 2022, 8, eabj1571.	4.7	13
143	Heat flow constraints on the mafic character of Archean continental crust. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117091.	1.8	12
144	The distributions of slip rate and ductile deformation in a strike-slip shear zone. <i>Geophysical Journal International</i> , 2002, 148, 179-192.	1.0	11

#	ARTICLE	IF	CITATIONS
145	Postemplacement dynamics of basaltic intrusions in the continental crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 966-987.	1.4	11
146	Folding in regions of extension. <i>Geophysical Journal International</i> , 2011, 185, 1120-1134.	1.0	10
147	Microwave-based laboratory experiments for internally-heated mantle convection. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	10
148	Influence of cooling on lava-flow dynamics: Comment and Reply. <i>Geology</i> , 1994, 22, 93.	2.0	8
149	The effects of alteration and the interpretation of heat flow and radioactivity data—a reply to R.U.M. Rao. <i>Earth and Planetary Science Letters</i> , 1983, 62, 430-438.	1.8	7
150	What the mantle sees: The Effects of continents on mantle heat flow. <i>Geophysical Monograph Series</i> , 2000, , 95-112.	0.1	7
151	The Earth's mantle in a microwave oven: thermal convection driven by a heterogeneous distribution of heat sources. <i>Experiments in Fluids</i> , 2017, 58, 1.	1.1	7
152	Characteristic Dimensions and Times for Dynamic Crystallization. , 1987, , 613-639.		7
153	The impact of vent geometry on the growth of lava domes. <i>Geophysical Journal International</i> , 0, , .	1.0	5
154	CHAPTER 5. PHYSICAL PROCESSES IN THE EVOLUTION OF MAGMAS. , 1990, , 125-152.		4
155	The Sudbury Huronian heat flow anomaly, Ontario, Canada. <i>Precambrian Research</i> , 2017, 295, 187-202.	1.2	2
156	Towards Scaling Laws for the Interpretation of Igneous Structures. , 1987, , 327-347.		2
157	Convection and Macrosegregation in Magma Chambers. , 1992, , 241-260.		2
158	The flow of gas and lava: A review of dynamic models for volcanic eruptions. <i>Chemical Geology</i> , 1988, 70, 38.	1.4	1
159	Variations of surface heat flow and lithospheric thermal structure beneath the North American craton. <i>Earth and Planetary Science Letters</i> , 2004, 223, 65-65.	1.8	1
160	Microwave-based, internally-heated convection: New perspectives for the heterogeneous case. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
161	Lithosphere, Continental: Thermal Structure. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 872-884.	0.1	1
162	Energy Budget of the Earth. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 361-368.	0.1	1

#	ARTICLE	IF	CITATIONS
163	New Experiments on Compositional Convection. , 1992, , 155-158.		1
164	Reply [to "Comment on "Compositional convection in a reactive crystalline mush and melt differentiation" by Stephen Tait and Claude Jaupart]. Journal of Geophysical Research, 1994, 99, 11919-11921.	3.3	0
165	The Formation of Continental Crust from a Physics Perspective. Geochemistry International, 2018, 56, 1289-1321.	0.2	0
166	Radiogenic Heat Production in the Continental Crust. Encyclopedia of Earth Sciences Series, 2021, , 1298-1303.	0.1	0
167	Energy Budget of the Earth. Encyclopedia of Earth Sciences Series, 2020, , 1-9.	0.1	0
168	Radiogenic Heat Production in the Continental Crust. Encyclopedia of Earth Sciences Series, 2020, , 1-7.	0.1	0
169	Interactive simulation of plume and pyroclastic volcanic ejections. Proceedings of the ACM on Computer Graphics and Interactive Techniques, 2022, 5, 1-15.	1.0	0