Chloe Michaut

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
2	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
3	Thickness and structure of the martian crust from InSight seismic data. Science, 2021, 373, 438-443.	12.6	140
4	Upper mantle structure of Mars from InSight seismic data. Science, 2021, 373, 434-438.	12.6	105
5	Petrological constraints on the density of the Martian crust. Journal of Geophysical Research E: Planets, 2014, 119, 1707-1727.	3.6	91
6	Dynamics of magmatic intrusions in the upper crust: Theory and applications to laccoliths on Earth and the Moon. Journal of Geophysical Research, 2011, 116, .	3.3	88
7	Thermal evolution of cratonic roots. Lithos, 2009, 109, 47-60.	1.4	78
8	Crustal and time-varying magnetic fields at the InSight landing site on Mars. Nature Geoscience, 2020, 13, 199-204.	12.9	68
9	Two-phase dynamics of volcanic eruptions: compaction, compression and the conditions for choking. Geophysical Journal International, 0, 182, 843-864.	2.4	65
10	Domes, pits, and small chaos on Europa produced by water sills. Journal of Geophysical Research E: Planets, 2014, 119, 550-573.	3.6	62
11	Formation of lenticulae on Europa by saucer-shaped sills. Icarus, 2017, 286, 261-269.	2.5	56
12	Eruption cyclicity at silicic volcanoes potentially caused by magmatic gas waves. Nature Geoscience, 2013, 6, 856-860.	12.9	54
13	Transient geotherms in Archean continental lithosphere: New constraints on thickness and heat production of the subcontinental lithospheric mantle. Journal of Geophysical Research, 2007, 112, .	3.3	51
14	Ultra-rapid formation of large volumes of evolved magma. Earth and Planetary Science Letters, 2006, 250, 38-52.	4.4	47
15	InSight Constraints on the Global Character of the Martian Crust. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	45
16	Evolution of the protolunar disk: Dynamics, cooling timescale and implantation of volatiles onto the Earth. Icarus, 2015, 260, 440-463.	2.5	44
17	Crust stratigraphy and heterogeneities of the first kilometers at the dichotomy boundary in western Elysium Planitia and implications for InSight lander. Icarus, 2020, 338, 113511.	2.5	40
18	Anomalous elastic properties of coesite at high pressure and implications for the upper mantle X-discontinuity. Earth and Planetary Science Letters, 2015, 412, 42-51.	4.4	39

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19	Secular cooling and thermal structure of continental lithosphere. Earth and Planetary Science Letters, 2007, 257, 83-96.	4.4	38
20	Ascent and compaction of gas rich magma and the effects of hysteretic permeability. Earth and Planetary Science Letters, 2009, 282, 258-267.	4.4	38
21	Twoâ€phase dynamics of volcanic eruptions: Particle size distribution and the conditions for choking. Journal of Geophysical Research: Solid Earth, 2015, 120, 1503-1522.	3.4	34
22	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
23	A model for the dynamics of craterâ€centered intrusion: Application to lunar floorâ€fractured craters. Journal of Geophysical Research E: Planets, 2014, 119, 286-312.	3.6	29
24	Two models for the formation of magma reservoirs by small increments. Tectonophysics, 2011, 500, 34-49.	2.2	28
25	Scaling laws of convection for cooling planets in a stagnant lid regime. Physics of the Earth and Planetary Interiors, 2019, 286, 138-153.	1.9	28
26	Gravitational signatures of lunar floor-fractured craters. Earth and Planetary Science Letters, 2015, 424, 269-279.	4.4	26
27	Hemispheric Dichotomy in Lithosphere Thickness on Mars Caused by Differences in Crustal Structure and Composition. Journal of Geophysical Research E: Planets, 2018, 123, 823-848.	3.6	24
28	Nonequilibrium temperatures and cooling rates in thick continental lithosphere. Geophysical Research Letters, 2004, 31, .	4.0	20
29	Magma Ascent and Eruption Triggered by Cratering on the Moon. Geophysical Research Letters, 2018, 45, 6408-6416.	4.0	19
30	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006518.	3.6	19
31	Elastic-plated gravity currents with a temperature-dependent viscosity. Journal of Fluid Mechanics, 2016, 805, 88-117.	3.4	16
32	The impact origin and evolution of Chryse Planitia on Mars revealed by buried craters. Nature Communications, 2019, 10, 4257.	12.8	15
33	Magmatic intrusions and deglaciation at mid-latitude in the northern plains of Mars. Icarus, 2013, 225, 602-613.	2.5	14
34	Volcanic tremors and magma wagging: gas flux interactions and forcing mechanism. Geophysical Journal International, 2013, 195, 1001-1022.	2.4	13
35	Uplift of an elastic membrane by a viscous flow. Physical Review E, 2019, 99, 043102.	2.1	9
36	Magma ascent at floor-fractured craters diagnoses the lithospheric stress state on the Moon. Earth and Planetary Science Letters, 2020, 530, 115889.	4.4	8

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37	A model for the spreading and compaction of two-phase viscous gravity currents. Journal of Fluid Mechanics, 2009, 630, 299-329.	3.4	6
38	Formation of the Lunar Primary Crust From a Long‣ived Slushy Magma Ocean. Geophysical Research Letters, 2022, 49, .	4.0	6
39	Insights into mare basalt thicknesses on the Moon from intrusive magmatism. Physics of the Earth and Planetary Interiors, 2016, 257, 187-192.	1.9	4
40	Magma ascent and emplacement below floor fractured craters on the Moon from floor uplift and fracture length. Physics of the Earth and Planetary Interiors, 2021, 312, 106658.	1.9	3
41	The Effects of Degassing on Magmatic Gas Waves and Long Period Eruptive Precursors at Silicic Volcanoes. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019755.	3.4	0