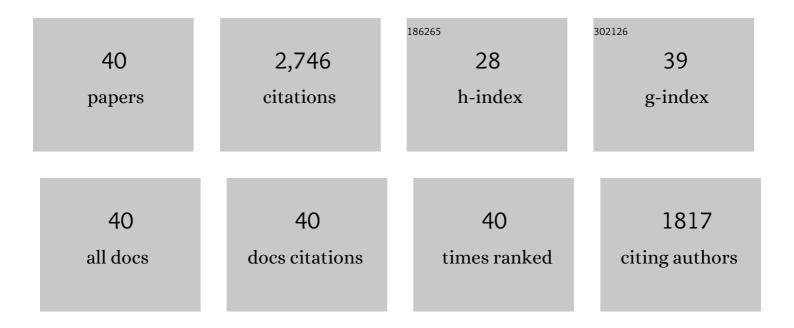
Gabriel Tobie

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Inferring lo's interior from tidal monitoring. Icarus, 2022, 373, 114737.	2.5	5
2	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. Experimental Astronomy, 2022, 54, 809-847.	3.7	5
3	Geologically rapid aqueous mineral alteration at subfreezing temperatures in icy worlds. Nature Astronomy, 2022, 6, 554-559.	10.1	12
4	Tidally Induced Magmatic Pulses on the Oceanic Floor of Jupiter's Moon Europa. Geophysical Research Letters, 2021, 48, e2020GL090077.	4.0	36
5	Titan's Interior Structure and Dynamics After the Cassini-Huygens Mission. Annual Review of Earth and Planetary Sciences, 2021, 49, 579-607.	11.0	17
6	A Recipe for the Geophysical Exploration of Enceladus. Planetary Science Journal, 2021, 2, 157.	3.6	14
7	Cooling patterns in rotating thin spherical shells — Application to Titan's subsurface ocean. Icarus, 2020, 338, 113509.	2.5	28
8	Scaling of heat transfer in stagnant lid convection for the outer shell of icy moons: Influence of rheology. Icarus, 2020, 338, 113448.	2.5	8
9	Ice-Ocean Exchange Processes in the Jovian and Saturnian Satellites. Space Science Reviews, 2020, 216, 1.	8.1	43
10	Large Ocean Worlds with High-Pressure Ices. Space Science Reviews, 2020, 216, 1.	8.1	62
11	Solid tidal friction in multi-layer planets: Application to Earth, Venus, a Super Earth and the TRAPPIST-1 planets. Astronomy and Astrophysics, 2020, 644, A165.	5.1	24
12	Tidal dissipation in Enceladus' uneven, fractured ice shell. Icarus, 2019, 328, 218-231.	2.5	32
13	Long-term stability of Enceladus' uneven ice shell. Icarus, 2019, 319, 476-484.	2.5	59
14	Tidal response of rocky and ice-rich exoplanets. Astronomy and Astrophysics, 2019, 630, A70.	5.1	21
15	Two-phase convection in Ganymede's high-pressure ice layer —ÂImplications for its geological evolution. Icarus, 2018, 299, 133-147.	2.5	49
16	Geophysical Investigations of Habitability in Iceâ€Covered Ocean Worlds. Journal of Geophysical Research E: Planets, 2018, 123, 180-205.	3.6	133
17	Modeling climate diversity, tidal dynamics and the fate of volatiles on TRAPPIST-1 planets. Astronomy and Astrophysics, 2018, 612, A86.	5.1	130
18	Macromolecular organic compounds from the depths of Enceladus. Nature, 2018, 558, 564-568.	27.8	282

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19	Tidal constraints on the interior of Venus. Journal of Geophysical Research E: Planets, 2017, 122, 1338-1352.	3.6	62
20	Heat transport in the high-pressure ice mantle of large icy moons. Icarus, 2017, 285, 252-262.	2.5	47
21	Powering prolonged hydrothermal activity inside Enceladus. Nature Astronomy, 2017, 1, 841-847.	10.1	158
22	Enceladus's internal ocean and ice shell constrained from Cassini gravity, shape, and libration data. Geophysical Research Letters, 2016, 43, 5653-5660.	4.0	141
23	Water generation and transport below Europa's strike-slip faults. Journal of Geophysical Research E: Planets, 2016, 121, 2444-2462.	3.6	36
24	Consequences of large impacts on Enceladus' core shape. Icarus, 2016, 264, 300-310.	2.5	31
25	Timing of water plume eruptions on Enceladus explained by interior viscosity structure. Nature Geoscience, 2015, 8, 601-604.	12.9	41
26	Structure and dynamics of Titan's outer icy shell constrained from Cassini data. Icarus, 2014, 237, 16-28.	2.5	40
27	Shape, topography, gravity anomalies and tidal deformation of Titan. Icarus, 2014, 236, 169-177.	2.5	88
28	lce melting and downward transport of meltwater by twoâ€phase flow in Europa's ice shell. Journal of Geophysical Research E: Planets, 2014, 119, 532-549.	3.6	46
29	Impact of tidal heating on the onset of convection in Enceladus's ice shell. Icarus, 2013, 226, 898-904.	2.5	25
30	STRONG TIDAL DISSIPATION IN SATURN AND CONSTRAINTS ON ENCELADUS' THERMAL STATE FROM ASTROMETRY. Astrophysical Journal, 2012, 752, 14.	4.5	163
31	Tidally-induced melting events as the origin of south-pole activity on Enceladus. Icarus, 2012, 219, 655-664.	2.5	60
32	TIDALLY INDUCED THERMAL RUNAWAYS ON EXTRASOLAR EARTHS: IMPACT ON HABITABILITY. Astrophysical Journal, 2011, 728, 89.	4.5	50
33	Implications of Rotation, Orbital States, Energy Sources, and Heat Transport for Internal Processes in Icy Satellites. Space Science Reviews, 2010, 153, 317-348.	8.1	52
34	Stability of methane clathrate hydrates under pressure: Influence on outgassing processes of methane on Titan. Icarus, 2010, 205, 581-593.	2.5	107
35	Coupling mantle convection and tidal dissipation: Applications to Enceladus and Earthâ€ŀike planets. Journal of Geophysical Research, 2010, 115, .	3.3	46
36	The orbital–thermal evolution and global expansion of Ganymede. Icarus, 2009, 200, 207-221.	2.5	63

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#	Article	IF	CITATIONS
37	Tidal dissipation within large icy satellites: Applications to Europa and Titan. Icarus, 2005, 177, 534-549.	2.5	190
38	Tidally heated convection: Constraints on Europa's ice shell thickness. Journal of Geophysical Research, 2003, 108, .	3.3	177
39	Europa: Tidal heating of upwelling thermal plumes and the origin of lenticulae and chaos melting. Geophysical Research Letters, 2002, 29, 74-1-74-4.	4.0	156
40	Tides and Tidal Heating on Europa. , 0, , 85-118.		7