

Attilio Rivoldini

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,957
citations

304743

22
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

1678
citing authors

#	ARTICLE	IF	CITATIONS
1	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
2	Geodesy constraints on the interior structure and composition of Mars. <i>Icarus</i> , 2011, 213, 451-472.	2.5	183
3	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
4	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	12.6	140
5	Enceladus's and Dione's floating ice shells supported by minimum stress isostasy. <i>Geophysical Research Letters</i> , 2016, 43, 10,088.	4.0	126
6	A Geophysical Perspective on the Bulk Composition of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 575-611.	3.6	97
7	Pre-mission InSights on the Interior of Mars. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	85
8	The interior structure of Mercury and its core sulfur content. <i>Icarus</i> , 2009, 201, 12-30.	2.5	75
9	Mercury's inner core size and core-crystallization regime. <i>Icarus</i> , 2015, 248, 254-268.	2.5	72
10	Interior structure of terrestrial planets: Modeling Mars' mantle and its electromagnetic, geodetic, and seismic properties. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	68
11	The interior structure of Mercury constrained by the low-degree gravity field and the rotation of Mercury. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 62-72.	4.4	66
12	A new ab initio equation of state of hcp-Fe and its implication on the interior structure and mass-radius relations of rocky super-Earths. <i>Icarus</i> , 2018, 313, 61-78.	2.5	66
13	The Rotation and Interior Structure Experiment on the InSight Mission to Mars. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	64
14	Lunar Seismology: An Update on Interior Structure Models. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	60
15	InSight Constraints on the Global Character of the Martian Crust. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	45
16	Geophysical and cosmochemical evidence for a volatile-rich Mars. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117330.	4.4	42
17	Pressure and Composition Effects on Sound Velocity and Density of Core-Forming Liquids: Implication to Core Compositions of Terrestrial Planets. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2272-2293.	3.6	39
18	Detection of the Chandler Wobble of Mars From Orbiting Spacecraft. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090568.	4.0	37

#	ARTICLE	IF	CITATIONS
19	Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution. <i>Planetary and Space Science</i> , 2012, 68, 123-145.	1.7	32
20	The effect of tides and an inner core on the forced longitudinal libration of Mercury. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 83-90.	4.4	31
21	Mercury's Crustal Thickness Correlates With Lateral Variations in Mantle Melt Production. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087261.	4.0	24
22	Challenges on Mercury's Interior Structure Posed by the New Measurements of its Obliquity and Tides. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089895.	4.0	24
23	The role of Mercury's core density structure on its longitudinal librations. <i>Icarus</i> , 2013, 225, 62-74.	2.5	21
24	The Thermochemical Evolution of Mars With a Strongly Stratified Mantle. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006613.	3.6	20
25	Simulations of Seismic Wave Propagation on Mars. <i>Space Science Reviews</i> , 2017, 211, 571-594.	8.1	19
26	Obliquity of Mercury: Influence of the precession of the pericenter and of tides. <i>Icarus</i> , 2017, 291, 136-159.	2.5	18
27	Hydrostatic Interfaces in Bodies With Nonhydrostatic Lithospheres. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1410-1432.	3.6	17
28	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020, 7, e2020EA001118.	2.6	16
29	Mars precession rate determined from radiometric tracking of the InSight Lander. <i>Planetary and Space Science</i> , 2021, 199, 105208.	1.7	15
30	Mercury's Interior Structure Constrained by Density and P-Wave Velocity Measurements of Liquid Fe-Si Alloys. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006651.	3.6	14
31	The Fe-FeSi phase diagram at Mercury's core conditions. <i>Nature Communications</i> , 2022, 13, 387.	12.8	13
32	Liquid properties in the Fe-FeS system under moderate pressure: Tool box to model small planetary cores. <i>American Mineralogist</i> , 2018, , .	1.9	12
33	Bayesian inversion of the Martian structure using geodynamic constraints. <i>Geophysical Journal International</i> , 2021, 226, 1615-1644.	2.4	12
34	Seismic Velocity Variations in a 3D Martian Mantle: Implications for the InSight Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006755.	3.6	10
35	Exoplanet interiors and habitability. <i>Advances in Physics: X</i> , 2019, 4, 1630316.	4.1	9
36	Thermal expansion of liquid Fe-S alloy at high pressure. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116884.	4.4	8

#	ARTICLE	IF	CITATIONS
37	Interior Structure and Evolution of Mars. , 2014, , 379-396.		6
38	Forward Modeling of the Phobos Tides and Applications to the First Martian Year of the InSight Mission. Earth and Space Science, 2021, 8, e2021EA001669.	2.6	4
39	Low Velocity Zones in the Martian Upper Mantle Highlighted by Sound Velocity Measurements. Geophysical Research Letters, 2021, 48, e2021GL093977.	4.0	4