

# Constraining the early evolution of Venus and Earth through and bulk K/U ratios

Icarus

339, 113551

DOI: [10.1016/j.icarus.2019.113551](https://doi.org/10.1016/j.icarus.2019.113551)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Hydrogen Dominated Atmospheres on Terrestrial Mass Planets: Evidence, Origin and Evolution. Space Science Reviews, 2020, 216, 1.	8.1	37
2	Ariel “a window to the origin of life on early earth?. Experimental Astronomy, 2020, , 1.	3.7	1
3	Escape and evolution of Titan’s N <sub>2</sub> atmosphere constrained by 14N/15N isotope ratios. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2020-2035.	4.4	8
4	Possible Atmospheric Diversity of Low Mass Exoplanets “ Some Central Aspects. Space Science Reviews, 2020, 216, 1.	8.1	11
5	Future Missions Related to the Determination of the Elemental and Isotopic Composition of Earth, Moon and the Terrestrial Planets. Space Science Reviews, 2020, 216, 1.	8.1	8
6	Nitrogen Atmospheres of the Icy Bodies in the Solar System. Space Science Reviews, 2020, 216, 1.	8.1	11
7	Evolution of the Earth's Polar Outflow From Mid-Archean to Present. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027837.	2.4	10
8	Loss and Fractionation of Noble Gas Isotopes and Moderately Volatile Elements from Planetary Embryos and Early Venus, Earth and Mars. Space Science Reviews, 2020, 216, 1.	8.1	34
9	Mission to Planet Earth: The First Two Billion Years. Space Science Reviews, 2020, 216, 1.	8.1	20
10	Did Mars Possess a Dense Atmosphere During the First ~400 Million Years?. Space Science Reviews, 2021, 217, 1.	8.1	15
11	Formation of Venus, Earth and Mars: Constrained by Isotopes. Space Science Reviews, 2021, 217, 1.	8.1	22
12	The Diverse Planetary In-gassing/Outgassing Paths Produced over Billions of Years of Magmatic Activity. Space Science Reviews, 2021, 217, 1.	8.1	32
13	A pebble accretion model for the formation of the terrestrial planets in the Solar System. Science Advances, 2021, 7, .	10.3	93
14	The evolution of the solar wind. Living Reviews in Solar Physics, 2021, 18, 3.	22.0	55
15	Growing Mars fast: High-resolution GPU simulations of embryo formation. Icarus, 2021, 359, 114305.	2.5	21
16	A critical assessment of the applicability of the energy-limited approximation for estimating exoplanetary mass-loss rates. Astronomy and Astrophysics, 2021, 650, A94.	5.1	17
17	The flare-activity of 2MASS J16111534+1757214 in the upper Scorpius association. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2103-2114.	4.4	3
19	Migration processes in the Solar System and their role in the evolution of the Earth and planets. Physics-Uspexhi, 2023, 66, 2-31.	2.2	8

#	ARTICLE	IF	CITATIONS
20	The young Sun's XUV-activity as a constraint for lower CO <sub>2</sub> -limits in the Earth's Archean atmosphere. Earth and Planetary Science Letters, 2021, 576, 117197.	4.4	23
21	The terrestrial planet formation paradox inferred from high-resolution N-body simulations. Icarus, 2022, 371, 114692.	2.5	13
22	Atmospheric Erosion by Giant Impacts onto Terrestrial Planets: A Scaling Law for any Speed, Angle, Mass, and Density. Astrophysical Journal Letters, 2020, 901, L31.	8.3	16
23	The search for living worlds and the connection to our cosmic origins. Experimental Astronomy, 2022, 54, 1275-1306.	3.7	1
24	Time evolution of magnetic activity cycles in young suns: The curious case of $\tau$ Ceti. Astronomy and Astrophysics, 2022, 658, A16.	5.1	9
25	Was Venus Ever Habitable? Constraints from a Coupled Interior–Atmosphere–Redox Evolution Model. Planetary Science Journal, 2021, 2, 216.	3.6	25
26	Ca–H&K stellar activity parameter: a proxy for extreme ultraviolet stellar fluxes. Astronomy and Astrophysics, 2020, 644, A67.	5.1	20
27	An exploration of whether Earth can be built from chondritic components, not bulk chondrites. Geochimica Et Cosmochimica Acta, 2022, 318, 428-451.	3.9	8
28	The escape mechanisms of the proto-atmosphere on terrestrial planets: $\text{H}_2$ -escape, hydrodynamic escape and impact erosion. Acta Geochimica, 2022, 41, 592-606.	1.7	1
29	The GAPS Programme at TNG. Astronomy and Astrophysics, 2022, 658, A136.	5.1	20
30	Non-thermal escape of the martian CO <sub>2</sub> atmosphere over time: Constrained by Ar isotopes. Icarus, 2022, 382, 115009.	2.5	6
31	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. Space Science Reviews, 2022, 218, 1.	8.1	6
32	The Origin of Earth's Mantle Nitrogen: Primordial or Early Biogeochemical Cycling?. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	3
33	Multi-element constraints on the sources of volatiles to Earth. Geochimica Et Cosmochimica Acta, 2022, 333, 124-135.	3.9	2
34	Convective outgassing efficiency in planetary magma oceans: Insights from computational fluid dynamics. Icarus, 2023, 390, 115265.	2.5	15
35	The Long-Term Evolution of the Atmosphere of Venus: Processes and Feedback Mechanisms. Space Science Reviews, 2022, 218, .	8.1	20
36	Noble Gases and Stable Isotopes Track the Origin and Early Evolution of the Venus Atmosphere. Space Science Reviews, 2022, 218, .	8.1	14
37	Modification of the radioactive heat budget of Earth-like exoplanets by the loss of primordial atmospheres. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	3

#	ARTICLE	IF	CITATIONS
38	Anatomy of planets formed by rapid pebble accretion. III. Partitioning of volatiles between planetary core, mantle, and atmosphere. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	4
39	The TEMPO Survey. I. Predicting Yields of Transiting Exosatellites, Moons, and Planets from a 30 days Survey of Orion with the Roman Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2023, 135, 014401.	3.1	4
40	Takeout and Delivery: Erasing the Dusty Signature of Late-stage Terrestrial Planet Formation. <i>Astrophysical Journal</i> , 2023, 944, 125.	4.5	2
41	Characterisation of the upper atmospheres of HAT-P-32 b, WASP-69 b, GJ 1214 b, and WASP-76 b through their Heâ€¹ triplet absorption. <i>Astronomy and Astrophysics</i> , 2023, 673, A140.	5.1	4
42	Earth shaped by primordial H <sub>2</sub> atmospheres. <i>Nature</i> , 2023, 616, 306-311.	27.8	16
43	Magma Ocean, Water, and the Early Atmosphere of Venus. <i>Space Science Reviews</i> , 2023, 219, .	8.1	12
44	Venus Evolution Through Time: Key Science Questions, Selected Mission Concepts and Future Investigations. <i>Space Science Reviews</i> , 2023, 219, .	8.1	5
45	Sublimation of refractory minerals in the gas envelopes of accreting rocky planets. <i>Astronomy and Astrophysics</i> , 2023, 677, A181.	5.1	1
46	Consumption of Hydrogen by Annihilation Reactions in Ultradense Hydrogen H(0) Contributed to Form a Hot and Dry Venus. <i>Astrobiology</i> , 2023, 23, 1128-1133.	3.0	1
47	Airy worlds or barren rocks? On the survivability of secondary atmospheres around the TRAPPIST-1 planets. <i>Astronomy and Astrophysics</i> , 2024, 683, A153.	5.1	0