

The Provenances of Asteroids, and Their Contributions Terrestrial Planets

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Origin of water and mantle-crust interactions on Mars inferred from hydrogen isotopes and volatile element abundances of olivine-hosted melt inclusions of primitive shergottites. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 119-129.	1.8	152
2	Ratios of S, Se and Te in the silicate Earth require a volatile-rich late veneer. <i>Nature</i> , 2013, 499, 328-331.	13.7	201
3	The bulk composition of Mars. <i>Chemie Der Erde</i> , 2013, 73, 401-420.	0.8	196
4	The classification of CM and CR chondrites using bulk H, C and N abundances and isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 244-260.	1.6	211
5	The near-Earth objects and their potential threat to our planet. <i>Astronomy and Astrophysics Review</i> , 2013, 21, 1.	9.1	46
6	Hydrogen Isotopes in Lunar Volcanic Glasses and Melt Inclusions Reveal a Carbonaceous Chondrite Heritage. <i>Science</i> , 2013, 340, 1317-1320.	6.0	218
7	The Science of Exoplanets and Their Systems. <i>Astrobiology</i> , 2013, 13, 793-813.	1.5	10
8	Late delivery of chondritic hydrogen into the lunar mantle: Insights from mare basalts. <i>Earth and Planetary Science Letters</i> , 2013, 361, 480-486.	1.8	67
9	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. <i>Science</i> , 2013, 339, 780-785.	6.0	340
10	Hydrogen isotopic composition of the water in CR chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 111-133.	1.6	55
11	A hydrogen-based oxidation mechanism relevant to planetary formation. <i>Earth and Planetary Science Letters</i> , 2013, 380, 88-97.	1.8	115
12	In situ observation of D-rich carbonaceous globules embedded in NWA 801 CR2 chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 306-323.	1.6	19
13	Black rain: The burial of the Galilean satellites in irregular satellite debris. <i>Icarus</i> , 2013, 223, 775-795.	1.1	30
14	Water transport in protoplanetary disks and the hydrogen isotopic composition of chondrites. <i>Icarus</i> , 2013, 223, 722-732.	1.1	50
15	The abundance, distribution, and isotopic composition of Hydrogen in the Moon as revealed by basaltic lunar samples: Implications for the volatile inventory of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 58-74.	1.6	127
16	Hydrothermal modification of the Sikhote-Alin iron meteorite under low pH geothermal environments. A plausibly prebiotic route to activated phosphorus on the early Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 90-112.	1.6	52
17	Highly sensitive tunable diode laser spectrometers for in situ planetary exploration. , 2013, , .		1
18	Primordial Origins of Earth's Carbon. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 75, 149-181.	2.2	69

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19	A <i>HERSCHEL</i> STUDY OF D/H IN WATER IN THE JUPITER-FAMILY COMET 45P/HONDA-MRKOS-PAJDUÁĀKOVÁ AND PROSPECTS FOR D/H MEASUREMENTS WITH CCAT. <i>Astrophysical Journal Letters</i> , 2013, 774, L3.	3.0	73
20	What Makes a Habitable Planet?. <i>Eos</i> , 2013, 94, 149-150.	0.1	4
21	The D/H ratio in the atmospheres of Uranus and Neptune from <i>Herschel</i> -PACS observations. <i>Astronomy and Astrophysics</i> , 2013, 551, A126.	2.1	76
22	6. Primordial Origins of Earth's Carbon. , 2013, , 149-182.		1
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25	Isotopic diversity in interplanetary dust particles and preservation of extreme 16 O-depletion. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 115-131.	1.6	31
26	Understanding the origin and evolution of water in the Moon through lunar sample studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130254.	1.6	35
27	Apatites in lunar KREEP basalts: The missing link to understanding the H isotope systematics of the Moon. <i>Geology</i> , 2014, 42, 363-366.	2.0	98
28	Elemental, isotopic, and structural changes in Tagish Lake insoluble organic matter produced by parent body processes. <i>Meteoritics and Planetary Science</i> , 2014, 49, 503-525.	0.7	75
29	Dendrite morphogenesis depends on relative levels of NT-3/TrkC signaling. <i>Science</i> , 2014, 346, 626-629.	6.0	93
30	Water deuterium fractionation in the high-mass star-forming region G34.26+0.15 based on <i>Herschel</i> /HIFI data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1299-1313.	1.6	28
31	The Grand Tack model: a critical review. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 194-203.	0.0	26
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34	H and Cl isotope systematics of apatite in brecciated lunar meteorites Northwest Africa 4472, Northwest Africa 773, Sayh al Uhaymir 169, and Kalahari 009. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2266-2289.	0.7	62
35	Aqueous alteration on main belt primitive asteroids: Results from visible spectroscopy. <i>Icarus</i> , 2014, 233, 163-178.	1.1	75
36	Variations in the O-isotope composition of gas during the formation of chondrules from the CR chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 50-74.	1.6	55

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37	Evidence for multiple magma ocean outgassing and atmospheric loss episodes from mantle noble gases. <i>Earth and Planetary Science Letters</i> , 2014, 393, 254-265.	1.8	116
38	Dynamics of the terrestrial planets from a large number of N-body simulations. <i>Earth and Planetary Science Letters</i> , 2014, 392, 28-38.	1.8	67
39	Origin of insoluble organic matter in type 1 and 2 chondrites: New clues, new questions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 80-99.	1.6	68
40	Evolution of water reservoirs on Mars: Constraints from hydrogen isotopes in martian meteorites. <i>Earth and Planetary Science Letters</i> , 2014, 394, 179-185.	1.8	97
41	The Drive to Life on Wet and Icy Worlds. <i>Astrobiology</i> , 2014, 14, 308-343.	1.5	232
42	Forming Terrestrial Planets. <i>Science</i> , 2014, 344, 479-480.	6.0	7
43	Heterogeneous distribution of water in the Moon. <i>Nature Geoscience</i> , 2014, 7, 401-408.	5.4	79
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45	Early accretion of water in the inner solar system from a carbonaceous chondrite-like source. <i>Science</i> , 2014, 346, 623-626.	6.0	128
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47	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. <i>Science</i> , 2014, 345, 1593-1596.	6.0	2,260
48	A water-rich ice rich minor body from the early Solar System: The CR chondrite parent asteroid. <i>Earth and Planetary Science Letters</i> , 2014, 407, 48-60.	1.8	50
49	Hydrosphere genesis in the isotope record. <i>Journal of Water Chemistry and Technology</i> , 2014, 36, 11-18.	0.2	3
50	The ancient heritage of water ice in the solar system. <i>Science</i> , 2014, 345, 1590-1593.	6.0	229
51	THE EFFECT OF PLANETS BEYOND THE ICE LINE ON THE ACCRETION OF VOLATILES BY HABITABLE-ZONE ROCKY PLANETS. <i>Astrophysical Journal</i> , 2014, 786, 33.	1.6	49
52	The origin of water in the primitive Moon as revealed by the lunar highlands samples. <i>Earth and Planetary Science Letters</i> , 2014, 390, 244-252.	1.8	118
53	Corrigendum to "Late delivery of chondritic hydrogen into the lunar mantle: Insights from mare basalts" [Earth Planet. Sci. Lett. 361 (2013) 480-486]. <i>Earth and Planetary Science Letters</i> , 2014, 389, 105.	1.8	1
54	Transport of solids in protoplanetary disks: Comparing meteorites and astrophysical models. <i>Comptes Rendus - Geoscience</i> , 2014, 346, 3-12.	0.4	21

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55	Investigation of pyridine carboxylic acids in CM2 carbonaceous chondrites: Potential precursor molecules for ancient coenzymes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 1-12.	1.6	47
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57	Relationships between organics, water and early stages of aqueous alteration in the pristine CR3.0 chondrite MET 00426. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 344-367.	1.6	129
58	Transmission infrared spectra (2 μ m) of carbonaceous chondrites (CI, CM, CV \leq CK, CR, C2) Tj ETQq1 1 0.784314 rgBT / Overl	1.1	114
59	Dynamical delivery of volatiles to the outer main belt. <i>Icarus</i> , 2014, 232, 13-21.	1.1	14
60	PROTOSOLAR AMMONIA AS THE UNIQUE SOURCE OF TITAN'S NITROGEN. <i>Astrophysical Journal Letters</i> , 2014, 788, L24.	3.0	74
61	The abundance and stability of δ D in type 1 and 2 carbonaceous chondrites (CI, CM and CR). <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 93-112.	1.6	104
62	The cratering record, chronology and surface ages of (4) Vesta in comparison to smaller asteroids and the ages of HED meteorites. <i>Planetary and Space Science</i> , 2014, 103, 104-130.	0.9	80
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65	Sibelius and astronomy: beyond 'The Sky at Night'. <i>Astronomy and Geophysics</i> , 2015, 56, 2.27-2.31.	0.1	1
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71	Internal sources of water on Earth. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 407-410.	0.0	0
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73	Cometary Isotopic Measurements. <i>Space Science Reviews</i> , 2015, 197, 47-83.	3.7	112
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76	Micron-scale D/H heterogeneity in chondrite matrices: A signature of the pristine solar system water?. <i>Earth and Planetary Science Letters</i> , 2015, 415, 154-164.	1.8	53
77	DETECTIONS OF TRANS-NEPTUNIAN ICE IN PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2015, 799, 162.	1.6	40
78	Noble gases, nitrogen, and methane from the deep interior to the atmosphere of Titan. <i>Icarus</i> , 2015, 250, 570-586.	1.1	41
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80	Nitrogen isotope variations in the Solar System. <i>Nature Geoscience</i> , 2015, 8, 515-522.	5.4	147
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83	The molecular composition of impact-generated atmospheres on terrestrial planets during the post-accretion stage. <i>Icarus</i> , 2015, 257, 290-301.	1.1	19
84	Metabolic precursors in astrophysical ice analogs: implications for meteorites and comets. <i>Chemical Communications</i> , 2015, 51, 11787-11790.	2.2	6
85	Hydrogen and carbon isotopic ratios of polycyclic aromatic compounds in two CM2 carbonaceous chondrites and implications for prebiotic organic synthesis. <i>Earth and Planetary Science Letters</i> , 2015, 426, 101-108.	1.8	19
86	Early aqueous activity on the ordinary and carbonaceous chondrite parent bodies recorded by fayalite. <i>Nature Communications</i> , 2015, 6, 7444.	5.8	150
87	Widespread oxidized and hydrated amorphous silicates in CR chondrites matrices: Implications for alteration conditions and H ₂ degassing of asteroids. <i>Earth and Planetary Science Letters</i> , 2015, 420, 162-173.	1.8	107
88	VOLATILE DELIVERY TO PLANETS FROM WATER-RICH PLANETESIMALS AROUND LOW-MASS STARS. <i>Astrophysical Journal</i> , 2015, 804, 9.	1.6	84
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92	Variable mass theories in relativistic quantum mechanics as an explanation for anomalous low energy nuclear phenomena. <i>Journal of Physics: Conference Series</i> , 2015, 615, 012016.	0.3	5

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94	Constraints from Comets on the Formation and Volatile Acquisition of the Planets and Satellites. <i>Space Science Reviews</i> , 2015, 197, 297-342.	3.7	25
95	Origin and Evolution of the Cometary Reservoirs. <i>Space Science Reviews</i> , 2015, 197, 191-269.	3.7	140
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97	Classification of hydrous meteorites (CR, CM and C2 ungrouped) by phyllosilicate fraction: PSD-XRD modal mineralogy and planetesimal environments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 206-222.	1.6	183
98	Meteoritic evidence for a previously unrecognized hydrogen reservoir on Mars. <i>Earth and Planetary Science Letters</i> , 2015, 410, 140-151.	1.8	83
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102	D-poor hydrogen in lunar mare basalts assimilated from lunar regolith. <i>American Mineralogist</i> , 2016, 101, 1596-1603.	0.9	21
103	The chlorine isotope composition of Martian meteorites 2. Implications for the early solar system and the formation of Mars. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2111-2126.	0.7	38
104	Astrophysics with Extraterrestrial Materials. <i>Annual Review of Astronomy and Astrophysics</i> , 2016, 54, 53-93.	8.1	133
105	Aliphatic amines in Antarctic CR2, CM2, and CM1/2 carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 296-311.	1.6	29
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107	The key role of meteorites in the formation of relevant prebiotic molecules in a formamide/water environment. <i>Scientific Reports</i> , 2016, 6, 38888.	1.6	76
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109	Early degassing of lunar urKREEP by crust-breaching impact(s). <i>Earth and Planetary Science Letters</i> , 2016, 447, 84-94.	1.8	78
110	Isotopic constraints on the source of Pluto's nitrogen and the history of atmospheric escape. <i>Planetary and Space Science</i> , 2016, 130, 104-109.	0.9	4

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115	Hydrogen isotopic composition of the Martian mantle inferred from the newest Martian meteorite fall, Tissint. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2073-2091.	0.7	29
116	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earth-like worlds. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1927-1961.	1.5	72
117	Reflectance spectroscopy of oxalate minerals and relevance to Solar System carbon inventories. <i>Icarus</i> , 2016, 278, 7-30.	1.1	9
119	An asteroidal origin for water in the Moon. <i>Nature Communications</i> , 2016, 7, 11684.	5.8	68
120	Elephant Moraine 96029, a very mildly aqueously altered and heated CM carbonaceous chondrite: Implications for the drivers of parent body processing. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 187, 237-259.	1.6	39
121	Water in evolved lunar rocks: Evidence for multiple reservoirs. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 244-260.	1.6	45
122	Heterogeneous distribution of H ₂ O in the Martian interior: Implications for the abundance of H ₂ O in depleted and enriched mantle sources. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2036-2060.	0.7	103
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128	GRASPING THE NATURE OF POTENTIALLY HAZARDOUS ASTEROIDS. <i>Astronomical Journal</i> , 2016, 151, 11.	1.9	21
130	Constraints on the early delivery and fractionation of Earth's major volatiles from C/H, C/N, and C/S ratios. <i>American Mineralogist</i> , 2016, 101, 540-553.	0.9	85
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133	Hydrogen isotope fractionation in methane plasma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 870-874.	3.3	16
134	Ruthenium isotopic evidence for an inner Solar System origin of the late veneer. Nature, 2017, 541, 525-527.	13.7	147
135	The nature, origin and modification of insoluble organic matter in chondrites, the major source of Earth's C and N. Chemie Der Erde, 2017, 77, 227-256.	0.8	163
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149	Pathways to Meteoritic Glycine and Methylamine. ACS Earth and Space Chemistry, 2017, 1, 3-13.	1.2	46
150	One-pot synthesis of amino acid precursors with insoluble organic matter in planetesimals with aqueous activity. Science Advances, 2017, 3, e1602093.	4.7	69

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152	Extensive water ice within Ceres' aqueously altered regolith: Evidence from nuclear spectroscopy. <i>Science</i> , 2017, 355, 55-59.	6.0	169
153	Distribution of aliphatic amines in CO, CV, and CK carbonaceous chondrites and relation to mineralogy and processing history. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2632-2646.	0.7	10
154	Solar Wind Sputtering Rates of Small Bodies and Ion Mass Spectrometry Detection of Secondary Ions. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1968-1983.	1.5	24
155	Carbon isotopic variation in ureilites: Evidence for an early, volatile-rich Inner Solar System. <i>Earth and Planetary Science Letters</i> , 2017, 478, 143-149.	1.8	22
156	Physical and dynamical properties of the anomalous comet 249P/LINEAR. <i>Icarus</i> , 2017, 295, 34-45.	1.1	12
157	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 471-510.	1.5	371
158	Water in the Earth's Interior: Distribution and Origin. <i>Space Science Reviews</i> , 2017, 212, 743-810.	3.7	139
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160	The production rate of cosmogenic deuterium at the Moon's surface. <i>Earth and Planetary Science Letters</i> , 2017, 474, 76-82.	1.8	30
161	Petrographic and C & O isotopic characteristics of the earliest stages of aqueous alteration of CM chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 271-290.	1.6	35
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