## Forming a Moon with an Earth-like Composition via a G

Science 338, 1052-1055 DOI: 10.1126/science.1226073

Citation Report

#	Article	IF	CITATIONS
2	Brown dwarfs and free-floating planets. , 0, , 209-216.		0
3	Formation and evolution. , 0, , 217-254.		3
4	The Origin of the Moon. Science, 2012, 338, 1040-1041.	6.0	14
5	Moon-forming impact not so giant?. Nature, 2012, , .	13.7	0
6	Der Mondkörper. , 2013, , 65-94.		0
7	Isotopic evidence for chondritic Lu/Hf and Sm/Nd of the Moon. Earth and Planetary Science Letters, 2013, 380, 77-87.	1.8	74
8	Dynamical and collisional constraints on a stochastic late veneer on the terrestrial planets. Icarus, 2013, 226, 671-681.	1.1	59
9	ON THE DYNAMICS AND ORIGIN OF HAUMEA'S MOONS. Astronomical Journal, 2013, 146, 89.	1.9	21
10	Forming the Moon from terrestrial silicate-rich material. Chemical Geology, 2013, 345, 40-49.	1.4	22
11	Shadows cast on Moon's origin. Nature, 2013, 504, 90-91.	13.7	4
12	Hydrogen Isotopes in Lunar Volcanic Glasses and Melt Inclusions Reveal a Carbonaceous Chondrite Heritage. Science, 2013, 340, 1317-1320.	6.0	218
13	On the chronology of lunar origin and evolution. Astronomy and Astrophysics Review, 2013, 21, 1.	9.1	25
14	The Crust of the Moon as Seen by GRAIL. Science, 2013, 339, 671-675.	6.0	726
15	A hydrogen-based oxidation mechanism relevant to planetary formation. Earth and Planetary Science Letters, 2013, 380, 88-97.	1.8	115
16	CHEMISTRY OF IMPACT-GENERATED SILICATE MELT-VAPOR DEBRIS DISKS. Astrophysical Journal Letters, 2013, 767, L12.	3.0	96
17	The oxygen isotope composition of earth's oldest rocks and evidence of a terrestrial magma ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 1929-1939.	1.0	15
18	The Moon and the early Earth. Astronomy and Geophysics, 2013, 54, 1.31-1.34.	0.1	3
19	Der Mond ist aufgegangen. Physik in Unserer Zeit, 2013, 44, 116-122.	0.0	0

ATION REDO

#	Article	IF	CITATIONS
20	BIOLOGICAL EFFECTS ON THE SOURCE OF GEONEUTRINOS. International Journal of Modern Physics A, 2013, 28, 1330047.	0.5	9
21	Preheated shock experiments in the molten CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> â€CaFeSi <sub>2</sub> O <sub>6</sub> â€CaMgSi <sub>2ternary: A test for linear mixing of liquid volumes at high pressure and temperature. Journal of Geophysical Research: Solid Earth. 2013. 118. 3354-3365.</sub>	ub>Q <sub< td=""><td>&gt;6</td></sub<>	>6
22	Lifting the cover of the cauldron: Convection in hot planets. Geochemistry, Geophysics, Geosystems, 2014, 15, 4617-4630.	1.0	10
23	The Moon Rises from the Ashes. , 0, , 158-173.		0
24	CHAPTER 3. Application of Radiogenic Isotopes in Geosciences: Overview and Perspectives. RSC Detection Science, 2014, , 49-93.	0.0	0
25	Longevity of moons around habitable planets. International Journal of Astrobiology, 2014, 13, 324-336.	0.9	30
26	Geochemical and Planetary Dynamical Views on the Origin of Earth's Atmosphere and Oceans. , 2014, , 1-35.		23
27	Terrestrial aftermath of the Moon-forming impact. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130172.	1.6	40
28	On the origin and composition of Theia: Constraints from new models of the Giant Impact. Icarus, 2014, 242, 316-328.	1.1	49
29	Evolution of Planetary Interiors. , 2014, , 185-208.		2
30	Internal Structure/Mantle Motions of the Moon. , 2014, , 1-6.		0
31	The origin of the Moon. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140289.	1.6	19
32	Understanding the origin and evolution of water in the Moon through lunar sample studies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130254.	1.6	35
33	Lunar-Forming Giant Impact Model Utilizing Modern Graphics Processing Units. Journal of Astrophysics and Astronomy, 2014, 35, 607-618.	0.4	1
34	The Moon's Surface, Structure, and Evolution. Astronomy and Astrophysics Library, 2014, , 197-230.	0.2	0
35	CHEMODYNAMICAL DEUTERIUM FRACTIONATION IN THE EARLY SOLAR NEBULA: THE ORIGIN OF WATER ON EARTH AND IN ASTEROIDS AND COMETS. Astrophysical Journal, 2014, 784, 39.	1.6	86
36	Setting the Stage for Habitable Planets. Life, 2014, 4, 35-65.	1.1	3
37	Lunar and terrestrial planet formation in the Grand Tack scenario. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130174.	1.6	92

#	Article	IF	Citations
38	High temperature silicon isotope geochemistry. Lithos, 2014, 190-191, 500-519.	0.6	80
39	Highly siderophile elements in Earth's mantle as a clock for the Moon-forming impact. Nature, 2014, 508, 84-87.	13.7	191
40	Impact Origin of the Moon?. Annual Review of Earth and Planetary Sciences, 2014, 42, 551-578.	4.6	92
41	Melting in super-earths. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130076.	1.6	52
42	New evidence for chondritic lunar water from combined D/H and noble gas analyses of single Apollo 17 volcanic glasses. Icarus, 2014, 229, 109-120.	1.1	59
43	How Did Early Earth Become Our Modern World?. Annual Review of Earth and Planetary Sciences, 2014, 42, 151-178.	4.6	82
44	The giant impact hypothesis: past, present (and future?). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130249.	1.6	19
45	Large impacts around a solar-analog star in the era of terrestrial planet formation. Science, 2014, 345, 1032-1035.	6.0	83
46	Isotopes as tracers of the sources of the lunar material and processes of lunar origin. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130257.	1.6	10
47	Evaporative fractionation of volatile stable isotopes and their bearing on the origin of the Moon. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130259.	1.6	94
48	Geochemical arguments for an Earth-like Moon-forming impactor. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130244.	1.6	115
49	New approaches to the Moon's isotopic crisis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130168.	1.6	33
50	Redox control of the fractionation of niobium and tantalum during planetary accretion and core formation. Nature Geoscience, 2014, 7, 573-576.	5.4	40
51	Calcium-48 isotopic anomalies in bulk chondrites and achondrites: Evidence for a uniform isotopic reservoir in the inner protoplanetary disk. Earth and Planetary Science Letters, 2014, 407, 96-108.	1.8	120
52	60Fe–60Ni chronology of core formation in Mars. Earth and Planetary Science Letters, 2014, 390, 264-274.	1.8	98
53	The Origin and Earliest History of the Earth. , 2014, , 149-211.		12
54	Lunar-forming impacts: processes and alternatives. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130175.	1.6	38
55	The Moon re-examined. Geochimica Et Cosmochimica Acta, 2014, 141, 670-676.	1.6	27

~			<u> </u>	
	ΙΤΔΤΙ	ON	REPC	<b>D</b> T
$\sim$	/			

#	Article	IF	CITATIONS
56	Evidence for Mo isotope fractionation in the solar nebula and during planetary differentiation. Earth and Planetary Science Letters, 2014, 391, 201-211.	1.8	125
57	Investigation of the initial state of the Moon-forming disk: Bridging SPH simulations and hydrostatic models. Icarus, 2014, 233, 259-267.	1.1	76
58	Identification of the giant impactor Theia in lunar rocks. Science, 2014, 344, 1146-1150.	6.0	156
59	Lunar core formation: New constraints from metal–silicate partitioning of siderophile elements. Earth and Planetary Science Letters, 2014, 388, 343-352.	1.8	70
60	Protracted core formation and rapid accretion of protoplanets. Science, 2014, 344, 1150-1154.	6.0	224
61	Water delivery and giant impacts in the â€~Grand Tack' scenario. Icarus, 2014, 239, 74-84.	1.1	209
62	Dust from collisions: A way to probe the composition of exo-planets?. Icarus, 2014, 239, 1-14.	1.1	15
63	Making the Moon. Physics Today, 2014, 67, 32-38.	0.3	4
64	Asymmetric shock heating and the terrestrial magma ocean origin of the Moon. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2014, 90, 97-103.	1.6	11
65	Study Chaotic Behavior of a 3 Body Systems: Simple Application to Earth-Sun-Moon like System. Journal of Physics: Conference Series, 2014, 537, 012012.	0.3	1
66	On the evolution of the protolunar disc. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130250.	1.6	10
67	Accretion of the Moon from non-canonical discs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130256.	1.6	24
68	Erosive Hit-and-Run Impact Events: Debris Unbound. Proceedings of the International Astronomical Union, 2015, 10, 9-15.	0.0	1
69	Evolution of the protolunar disk: Dynamics, cooling timescale and implantation of volatiles onto the Earth. Icarus, 2015, 260, 440-463.	1.1	44
74	Shock Response and Phase Transitions of MgO at Planetary Impact Conditions. Physical Review Letters, 2015, 115, 198501.	2.9	74
75	From microjoules to megajoules and kilobars to gigabars: Probing matter at extreme states of deformation. Physics of Plasmas, 2015, 22, 090501.	0.7	39
77	Endogenous Dynamics of Multi-Agent Firms. SSRN Electronic Journal, 2015, , .	0.4	1
78	Shock compression response of poly(4-methyl-1-pentene) plastic to 985 GPa. Journal of Applied Physics, 2015, 118, .	1.1	19

		CITATION R	REPORT	
#	Article		IF	CITATIONS
79	Water on the Moon. Proceedings of the International Astronomical Union, 2015, 11, 4	02-406.	0.0	2
81	PURSUING THE PLANET–DEBRIS DISK CONNECTION: ANALYSIS OF UPPER LIMITS FR ANGLO-AUSTRALIAN PLANET SEARCH. Astronomical Journal, 2015, 149, 86.	OM THE	1.9	32
82	Early evolution of the Earth–Moon system with a fast-spinning Earth. Icarus, 2015, 2	256, 138-146.	1.1	62
83	The feeding zones of terrestrial planets and insights into Moon formation. Icarus, 2015	5, 252, 161-174.	1.1	74
84	Excavation of the lunar mantle by basin-forming impact events on the Moon. Earth and Science Letters, 2015, 409, 243-251.	d Planetary	1.8	64
85	An intrinsic volatility scale relevant to the Earth and Moon and the status of water in t Meteoritics and Planetary Science, 2015, 50, 568-577.	he Moon.	0.7	62
86	Shock compression of stishovite and melting of silica at planetary interior conditions. 3 347, 418-420.	Science, 2015,	6.0	123
87	Tilt engineering of spontaneous polarization and magnetization above 300 K in a bulk perovskite. Science, 2015, 347, 420-424.	layered	6.0	181
88	The tethered Moon. Earth and Planetary Science Letters, 2015, 427, 74-82.		1.8	52
89	Brief follow-up on recent studies of Theia's accretion. Icarus, 2015, 258, 14-17.		1.1	7
90	Melting and mixing states of the Earth's mantle after the Moon-forming impact. Earth Science Letters, 2015, 427, 286-295.	and Planetary	1.8	140
91	In search of late-stage planetary building blocks. Chemical Geology, 2015, 411, 125-14	12.	1.4	61
92	The Origin of the Natural Satellites. , 2015, , 559-604.			20
93	Lunar tungsten isotopic evidence for the late veneer. Nature, 2015, 520, 534-537.		13.7	139
94	Dating the Moon-forming impact event with asteroidal meteorites. Science, 2015, 348	3, 321-323.	6.0	94
95	The formation of the solar system. Physica Scripta, 2015, 90, 068001.		1.2	51
96	Impact vaporization of planetesimal cores in the late stages of planet formation. Natur 2015, 8, 269-272.	re Geoscience,	5.4	62
97	An incredible likeness of being. Nature, 2015, 520, 169-170.		13.7	1

#	Article	IF	CITATIONS
98	Tungsten isotopic evidence for disproportional late accretion to the Earth and Moon. Nature, 2015, 520, 530-533.	13.7	127
99	A primordial origin for the compositional similarity between the Earth and the Moon. Nature, 2015, 520, 212-215.	13.7	83
100	Planetary and meteoritic Mg/Si and <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="sil.gif" overflow="scroll"&gt;<mml:msup><mml:mrow><mml:mi>δ</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mn>30mathvariant="normal"&gt;Si</mml:mn></mml:mrow><mml:math>variations inherited from solar nebula</mml:math></mml:mrow></mml:msup></mml:math>	ml:@1380 > <td>nm<b>l:re</b>row&gt;<!--</td--></td>	nm <b>l:re</b> row> </td
101	chemistry. Earth and Planetary Science Letters, 2015, 427, 236-248. PLANETARY COLLISIONS OUTSIDE THE SOLAR SYSTEM: TIME DOMAIN CHARACTERIZATION OF EXTREME DEBRIS DISKS. Astrophysical Journal, 2015, 805, 77.	1.6	67
102	The earliest Lunar Magma Ocean differentiation recorded in Fe isotopes. Earth and Planetary Science Letters, 2015, 430, 202-208.	1.8	33
104	Collisionless encounters and the origin of the lunar inclination. Nature, 2015, 527, 492-494.	13.7	48
105	Lunar volatile depletion due to incomplete accretion within an impact-generated disk. Nature Geoscience, 2015, 8, 918-921.	5.4	84
106	Dynamical evolution of the Earth–Moon progenitors – Whence Theia?. Icarus, 2015, 248, 318-339.	1.1	18
107	Water in the Moon's interior: Truth and consequences. Earth and Planetary Science Letters, 2015, 409, 252-264.	1.8	179
108	Bulk chemical and Hf–W isotopic consequences of incomplete accretion during planet formation. Icarus, 2015, 245, 145-152.	1.1	24
109	Constraining geologic properties and processes through the use of impact craters. Geomorphology, 2015, 240, 18-33.	1.1	14
111	MODELING THE ORBITAL SAMPLING EFFECT OF EXTRASOLAR MOONS. Astrophysical Journal, 2016, 820, 88.	1.6	39
112	The Redfield ratio: history, present status, and perspective. Oceanography in Japan, 2016, 25, 123-132.	0.5	2
113	Asteroid bombardment and the core of Theia as possible sources for the Earth's late veneer component. Geochemistry, Geophysics, Geosystems, 2016, 17, 2623-2642.	1.0	21
114	Hayek Enriched by Complexity Enriched by Hayek. Advances in Austrian Economics, 2016, , 63-121.	0.4	12
115	Speciation and dissolution of hydrogen in the proto-lunar disk. Earth and Planetary Science Letters, 2016, 445, 104-113.	1.8	18
116	Early degassing of lunar urKREEP by crust-breaching impact(s). Earth and Planetary Science Letters, 2016, 447, 84-94.	1.8	78
117	On the cooling of a deep terrestrial magma ocean. Earth and Planetary Science Letters, 2016, 448, 140-149.	1.8	81

#	Article	IF	CITATIONS
118	Magneto-rotational instability in the protolunar disk. Icarus, 2016, 268, 89-101.	1.1	13
119	Boundary conditions for the formation of the Moon. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2016, 95, 131-139.	0.6	3
120	The Chondritic Moon: a solution to the 142Nd conundrum and implications for terrestrial mantle evolution. Geological Magazine, 2016, 153, 548-555.	0.9	4
121	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. Advances in Space Research, 2016, 57, 2529-2547.	1.2	95
122	The oxidation state and mass of the Moon-forming impactor. Earth and Planetary Science Letters, 2016, 442, 186-193.	1.8	34
123	The giant impact simulations with density independent smoothed particle hydrodynamics. Icarus, 2016, 271, 131-157.	1.1	27
124	On the origin of Earth's Moon. Journal of Geophysical Research E: Planets, 2016, 121, 1573-1601.	1.5	53
125	GRAIL, LLR, and LOLA constraints on the interior structure of the Moon. Geophysical Research Letters, 2016, 43, 8365-8375.	1.5	57
126	Zirconium isotope constraints on the composition of Theia and current Moon-forming theories. Earth and Planetary Science Letters, 2016, 449, 302-310.	1.8	55
127	The early thermal evolution of Mars. Meteoritics and Planetary Science, 2016, 51, 138-154.	0.7	13
128	Lead isotope evidence for a young formation age of the Earth–Moon system. Earth and Planetary Science Letters, 2016, 452, 36-43.	1.8	62
129	Liquidâ€vapor phase relations in the Siâ€O system: A calorically constrained van der Waalsâ€ŧype model. Journal of Geophysical Research E: Planets, 2016, 121, 1641-1666.	1.5	10
130	Mass dependent fractionation of stable chromium isotopes in mare basalts: Implications for the formation and the differentiation of the Moon. Geochimica Et Cosmochimica Acta, 2016, 175, 208-221.	1.6	56
131	Core merging and stratification following giantÂimpact. Nature Geoscience, 2016, 9, 786-789.	5.4	54
132	Stratified by a sunken impactor. Nature Geoscience, 2016, 9, 734-735.	5.4	0
133	Ahrensite, Î <sup>3</sup> -Fe2SiO4, a new shock-metamorphic mineral from the Tissint meteorite: Implications for the Tissint shock event on Mars. Geochimica Et Cosmochimica Acta, 2016, 184, 240-256.	1.6	81
134	An early geodynamo driven by exsolution of mantle components from Earth's core. Nature, 2016, 536, 326-328.	13.7	128
135	THE FREQUENCY OF GIANT IMPACTS ON EARTH-LIKE WORLDS. Astrophysical Journal, 2016, 821, 126.	1.6	117

#	Article	IF	CITATIONS
136	Tidal evolution of the Moon from a high-obliquity, high-angular-momentum Earth. Nature, 2016, 539, 402-406.	13.7	102
137	Major element composition of an Early Enriched Reservoir: constraints from 142Nd/144Nd isotope systematics in the early Earth and high-pressure melting experiments of a primitive peridotite. Progress in Earth and Planetary Science, 2016, 3, .	1.1	2
138	Formation of exomoons: a solar system perspective. The Astronomical Review, 2016, 12, 24-52.	4.0	16
139	Mass Fractionation Laws, Mass-Independent Effects, and Isotopic Anomalies. Annual Review of Earth and Planetary Sciences, 2016, 44, 709-783.	4.6	190
141	Dynamical sequestration of the Moon-forming impactor in co-orbital resonance with Earth. Icarus, 2016, 275, 239-248.	1.1	5
142	Titanium stable isotope investigation of magmatic processes on the Earth and Moon. Earth and Planetary Science Letters, 2016, 449, 197-205.	1.8	99
143	Oxygen isotopic evidence for vigorous mixing during the Moon-forming giant impact. Science, 2016, 351, 493-496.	6.0	203
144	Powering Earth's dynamo with magnesium precipitation from the core. Nature, 2016, 529, 387-389.	13.7	173
145	Impact-induced melting during accretion of the Earth. Progress in Earth and Planetary Science, 2016, 3,	1.1	31
146	Insights into Planet Formation from Debris Disks. Space Science Reviews, 2016, 205, 231-265.	3.7	43
147	Jupiter: Cosmic Jekyll and Hyde. Astrobiology, 2016, 16, 23-38.	1.5	20
148	Effect of a single large impact on the coupled atmosphere-interior evolution of Venus. Icarus, 2016, 268, 295-312.	1.1	38
149	A multiple-impact origin for the Moon. Nature Geoscience, 2017, 10, 89-94.	5.4	118
150	Punch combo or knock-out blow?. Nature Geoscience, 2017, 10, 72-73.	5.4	1
151	The isotopic nature of the Earth's accreting material through time. Nature, 2017, 541, 521-524.	13.7	304
152	Ruthenium isotopic evidence for an inner Solar System origin of the late veneer. Nature, 2017, 541, 525-527.	13.7	147
153	Phase equilibria of a low S and C lunar core: Implications for an early lunar dynamo and physical state of the current core. Earth and Planetary Science Letters, 2017, 463, 323-332.	1.8	29
154	Chemical stratification in the post-magma ocean Earth inferred from coupled 146,147Sm–142,143Nd systematics in ultramafic rocks of the Saglek block (3.25–3.9 Ga; northern Labrador, Canada). Earth and Planetary Science Letters, 2017, 463, 136-150.	1.8	43

#	Article	IF	CITATIONS
155	Formation of a solid inner core during the accretion of Earth. Journal of Geophysical Research: Solid Earth, 2017, 122, 3248-3285.	1.4	10
156	Magmatic evolution of lunar highland rocks estimated from trace elements in plagioclase: A new bulk silicate Moon model with sub-chondritic Ti/Ba, Sr/Ba, and Sr/Al ratios. Geochimica Et Cosmochimica Acta, 2017, 210, 152-183.	1.6	7
157	Evidence for an early wet Moon from experimental crystallization of the lunar magma ocean. Nature Geoscience, 2017, 10, 14-18.	5.4	94
158	Experimental constraints on the solidification of a nominally dry lunar magma ocean. Earth and Planetary Science Letters, 2017, 471, 104-116.	1.8	56
159	The structure of terrestrial bodies: Impact heating, corotation limits, and synestias. Journal of Geophysical Research E: Planets, 2017, 122, 950-982.	1.5	81
160	Tungsten Isotopes in Planets. Annual Review of Earth and Planetary Sciences, 2017, 45, 389-417.	4.6	78
161	Origin and Evolution of Water in the Moon's Interior. Annual Review of Earth and Planetary Sciences, 2017, 45, 89-111.	4.6	29
162	The effect of ilmenite viscosity on the dynamics and evolution of an overturned lunar cumulate mantle. Geophysical Research Letters, 2017, 44, 6543-6552.	1.5	38
163	Silicate Melting and Volatile Loss During Differentiation in Planetesimals. , 2017, , 115-135.		8
164	Silicate melts during Earth's core formation. Chemical Geology, 2017, 461, 128-139.	1.4	6
165	Assessment and Mitigation of Asteroid Impact Hazards. Thirty Years of Astronomical Discovery With UKIRT, 2017, , .	0.3	5
166	Gallium isotopic evidence for extensive volatile loss from the Moon during its formation. Science Advances, 2017, 3, e1700571.	4.7	74
167	Late-stage magmatic outgassing from a volatile-depleted Moon. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9547-9551.	3.3	41
168	On the Impact Origin of Phobos and Deimos. I. Thermodynamic and Physical Aspects. Astrophysical Journal, 2017, 845, 125.	1.6	52
169	The Giant Impact Made the Present Earth–Moon Systemâ^—. , 2017, , 59-100.		0
170	Astronomical Applications. SpringerBriefs in Astronomy, 2017, , 71-84.	1.6	0
171	Three Body Dynamics and Its Applications to Exoplanets. SpringerBriefs in Astronomy, 2017, , .	1.6	8
172	South Pole Aitken Basin magnetic anomalies: Evidence for the true polar wander of Moon and a lunar dynamo reversal. Journal of Geophysical Research E: Planets, 2017, 122, 1195-1216.	1.5	8

#	Article	IF	CITATIONS
173	Reconciling magmaâ€ocean crystallization models with the presentâ€day structure of the Earth's mantle. Geochemistry, Geophysics, Geosystems, 2017, 18, 2785-2806.	1.0	58
174	Redox dependent behaviour of molybdenum during magmatic processes in the terrestrial and lunar mantle: Implications for the Mo/W of the bulk silicate Moon. Earth and Planetary Science Letters, 2017, 474, 503-515.	1.8	27
175	Formation, stratification, and mixing of the cores of Earth and Venus. Earth and Planetary Science Letters, 2017, 474, 375-386.	1.8	63
176	Water in the Earth's Interior: Distribution and Origin. Space Science Reviews, 2017, 212, 743-810.	3.7	139
177	Investigation of newly discovered lobate scarps: Implications for the tectonic and thermal evolution of the Moon. Icarus, 2017, 298, 78-88.	1.1	22
178	Tungsten isotopes and the origin of the Moon. Earth and Planetary Science Letters, 2017, 475, 15-24.	1.8	56
179	Granular avalanches on the Moon: Massâ€wasting conditions, processes, and features. Journal of Geophysical Research E: Planets, 2017, 122, 1893-1925.	1.5	53
180	Geochemical Constraints on the Size of the Moonâ€Forming Giant Impact. Geophysical Research Letters, 2017, 44, 11,770.	1.5	10
181	Energy geodynamo parameters compatible with analytical, numerical, paleomagnetic models and observations. Izvestiya, Physics of the Solid Earth, 2017, 53, 908-921.	0.2	6
182	The lunar core can be a major reservoir for volatile elements S, Se, Te and Sb. Scientific Reports, 2017, 7, 14552.	1.6	29
183	The composition of Solar system asteroids and Earth/Mars moons, and the Earth–Moon composition similarity. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3597-3609.	1.6	38
184	Coupled orbital-thermal evolution of the early Earth-Moon system with a fast-spinning Earth. Icarus, 2017, 281, 90-102.	1.1	54
185	Numerical aspects of giant impact simulations. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4252-4263.	1.6	56
186	Formation of Massive Rocky Exomoons by Giant Impact. Monthly Notices of the Royal Astronomical Society, 0, , stx078.	1.6	4
187	The Delivery of Water During Terrestrial Planet Formation. Space Science Reviews, 2018, 214, 1.	3.7	76
188	The Origin of the Moon Within a Terrestrial Synestia. Journal of Geophysical Research E: Planets, 2018, 123, 910-951.	1.5	200
189	Creating an isotopically similar Earth–Moon system with correct angular momentum from a giant impact. Journal of Astrophysics and Astronomy, 2018, 39, 1.	0.4	1
190	Origin of Phobos and Deimos by the impact of a Vesta-to-Ceres sized body with Mars. Science Advances, 2018, 4, eaar6887.	4.7	49

#	Article	IF	CITATIONS
191	Chlorine isotopic compositions of apatite in Apollo 14 rocks: Evidence for widespread vapor-phase metasomatism on the lunar nearsideâ€âî¼4â€billion years ago. Geochimica Et Cosmochimica Acta, 2018, 230, 46-59.	1.6	39
192	Venus Resurfacing Constrained by Geoid and Topography. Journal of Geophysical Research E: Planets, 2018, 123, 1041-1060.	1.5	21
193	The third isotope of the third element on the third planet. American Mineralogist, 2018, 103, 1-10.	0.9	3
194	Inefficient volatile loss from the Moon-forming disk: Reconciling the giant impact hypothesis and a wet Moon. Earth and Planetary Science Letters, 2018, 487, 117-126.	1.8	47
195	Asteroid impacts on terrestrial planets: the effects of super-Earths and the role of the ν6 resonance. Monthly Notices of the Royal Astronomical Society, 2018, 473, 295-305.	1.6	37
196	The Principal Hugoniot of Forsterite to 950 GPa. Geophysical Research Letters, 2018, 45, 3865-3872.	1.5	31
197	Planetary Interior-Atmosphere Interaction and Habitability. , 2018, , 1-22.		2
198	Oxygen isotopic evidence for accretion of Earth's water before a high-energy Moon-forming giant impact. Science Advances, 2018, 4, eaao5928.	4.7	77
199	182W and HSE constraints from 2.7†Ga komatiites on the heterogeneous nature of the Archean mantle. Geochimica Et Cosmochimica Acta, 2018, 228, 1-26.	1.6	48
200	Constraining the Time Interval for the Origin of Life on Earth. Astrobiology, 2018, 18, 343-364.	1.5	71
201	lsotopic evolution of the protoplanetary disk and the building blocks of Earth and the Moon. Nature, 2018, 555, 507-510.	13.7	140
202	Chromium isotopic homogeneity between the Moon, the Earth, and enstatite chondrites. Earth and Planetary Science Letters, 2018, 481, 1-8.	1.8	62
203	Coupling SPH and thermochemical models of planets: Methodology and example of a Mars-sized body. Icarus, 2018, 301, 235-246.	1.1	65
204	SPH calculations of Mars-scale collisions: The role of the equation of state, material rheologies, and numerical effects. Icarus, 2018, 301, 247-257.	1.1	56
205	Heterogeneous delivery of silicate and metal to the Earth by large planetesimals. Nature Geoscience, 2018, 11, 77-81.	5.4	67
206	Radial mixing and Ru–Mo isotope systematics under different accretion scenarios. Earth and Planetary Science Letters, 2018, 482, 105-114.	1.8	19
207	Crystallization of a compositionally stratified basal magma ocean. Physics of the Earth and Planetary Interiors, 2018, 276, 86-92.	0.7	17
208	Binary Planet Formation by Gas-assisted Encounters of Planetary Embryos. Astrophysical Journal, 2018, 868, 145.	1.6	4

#	Article	IF	CITATIONS
209	Formation of Embryos of the Earth and the Moon from a Common Rarefied Condensation and Their Subsequent Growth. Solar System Research, 2018, 52, 401-416.	0.3	6
210	The New Moon: Major Advances in Lunar Science Enabled by Compositional Remote Sensing from Recent Missions. Geosciences (Switzerland), 2018, 8, 498.	1.0	11
211	Planetary Interior-Atmosphere Interaction and Habitability. , 2018, , 2937-2958.		1
212	The Elusive Origin of Mercury. , 2018, , 497-515.		21
213	Gas-assisted Growth of Protoplanets in a Turbulent Medium. Astrophysical Journal, 2018, 861, 74.	1.6	11
215	Radial velocities. , 0, , 17-80.		0
216	Astrometry. , 0, , 81-102.		0
217	Timing. , 0, , 103-118.		0
218	Microlensing. , 0, , 119-152.		0
220	Host stars. , 0, , 373-428.		0
221	Brown dwarfs and free-floating planets. , 0, , 429-448.		0
222	Formation and evolution. , 0, , 449-558.		0
223	Interiors and atmospheres. , 0, , 559-648.		0
224	The solar system. , 0, , 649-700.		0
232	Experimental Determination of Eutectic Liquid Compositions in the MgOâ€5iO <sub>2</sub> System to the Lowermost Mantle Pressures. Geophysical Research Letters, 2018, 45, 9552-9558.	1.5	8
233	Crystallization of the lunar magma ocean and the primordial mantle-crust differentiation of the Moon. Geochimica Et Cosmochimica Acta, 2018, 234, 50-69.	1.6	102
234	Transport Properties of Fe 2 SiO 4 Melt at High Pressure From Classical Molecular Dynamics: Implications for the Lifetime of the Magma Ocean. Journal of Geophysical Research: Solid Earth, 2018, 123, 3667-3679.	1.4	7
235	Calcium signals in planetary embryos. Nature, 2018, 555, 451-452.	13.7	5

#	Article	IF	CITATIONS
236	The Role of Multiple Giant Impacts in the Formation of the Earth–Moon System. Astrophysical Journal, 2018, 862, 5.	1.6	14
237	Lateral Mixing Processes in the Hadean. Journal of Geophysical Research: Solid Earth, 2018, 123, 7074-7089.	1.4	5
238	A mixed model of neuronal diversity. Nature, 2018, 555, 452-454.	13.7	15
239	Implications of Tides for Life on Exoplanets. Astrobiology, 2018, 18, 967-982.	1.5	21
241	Earth's Atmosphere. Encyclopedia of Earth Sciences Series, 2018, , 383-392.	0.1	0
242	Constraints on the pre-impact orbits of Solar system giant impactors. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2924-2936.	1.6	46
243	Depletion of potassium and sodium in mantles of Mars, Moon and Vesta by core formation. Scientific Reports, 2018, 8, 7053.	1.6	12
244	Melting in the Earth's Deep Interior. , 2018, , 115-134.		2
245	Effect of Reimpacting Debris on the Solidification of the Lunar Magma Ocean. Journal of Geophysical Research E: Planets, 2018, 123, 1168-1191.	1.5	16
246	The nature of the giant exomoon candidate Kepler-1625 b-i. Astronomy and Astrophysics, 2018, 610, A39.	2.1	27
247	Transits. , 0, , 153-328. Endogenous Firm Dynamics and Labor Flows via Heterogeneous Agents âce Support from the John D. and		0
248	Catherine T. MacArthur Foundation, the National Science Foundation (0738606), the Small Business Administration (SBAHQ-05-Q-0018), and the Mercatus Center at George Mason is gratefully acknowledged. I have no relevant or material financial interests that relate to the research described in this paper or the associated model. Earlier versions of this work were presented at research		

#	Article	IF	CITATIONS
255	Observational Constraint on the Radius and Oblateness of the Lunar Coreâ€Mantle Boundary. Geophysical Research Letters, 2019, 46, 7295-7303.	1.5	31
256	Reconstructing the late-accretion history of the Moon. Nature, 2019, 571, 226-229.	13.7	42
258	Nebular atmosphere to magma ocean: A model for volatile capture during Earth accretion. Physics of the Earth and Planetary Interiors, 2019, 294, 106294.	0.7	37
259	The chlorine isotopic composition of the Moon: Insights from melt inclusions. Earth and Planetary Science Letters, 2019, 523, 115715.	1.8	24
260	Chelyabinsk Superbolide. , 2019, , .		10
261	Tracing the formation and differentiation of the Earth by non-traditional stable isotopes. Science China Earth Sciences, 2019, 62, 1702-1715.	2.3	17
262	A unified model for hydrogen in the Earth and Moon: No one expects the Theia contribution. Chemie Der Erde, 2019, 79, 125546.	0.8	10
263	Vapor Drainage in the Protolunar Disk as the Cause for the Depletion in Volatile Elements of the Moon. Astrophysical Journal Letters, 2019, 884, L48.	3.0	49
264	Interactive cinematic scientific visualization in unity. , 2019, , .		2
265	The Moon: A personal recollection and memorial for Professor Lawrence A. Taylor, an Apollo stalwart. Geochimica Et Cosmochimica Acta, 2019, 266, 9-16.	1.6	2
266	Origin and abundances of H2O in the terrestrial planets, Moon, and asteroids. Earth and Planetary Science Letters, 2019, 526, 115771.	1.8	59
267	Probabilities of Collisions of Planetesimals from Different Regions of the Feeding Zone of the Terrestrial Planets with the Forming Planets and the Moon. Solar System Research, 2019, 53, 332-361.	0.3	7
268	Giant impacts stochastically change the internal pressures of terrestrial planets. Science Advances, 2019, 5, eaav3746.	4.7	11
269	Volatile element depletion of the Moon—The roles of precursors, post-impact disk dynamics, and core formation. Science Advances, 2019, 5, eaau7658.	4.7	22
270	First-principles calculations of equilibrium Ca isotope fractionation: Implications for oldhamite formation and evolution of lunar magma ocean. Earth and Planetary Science Letters, 2019, 510, 153-160.	1.8	64
271	Are the Moon's Nearsideâ€Farside Asymmetries the Result of a Giant Impact?. Journal of Geophysical Research E: Planets, 2019, 124, 2117-2140.	1.5	32
272	Molybdenum isotopic evidence for the late accretion of outer Solar System material to Earth. Nature Astronomy, 2019, 3, 736-741.	4.2	120
273	Melt–crystal density crossover in a deep magma ocean. Earth and Planetary Science Letters, 2019, 516, 202-211.	1.8	54

	CHATION	REPORT	
#	Article	IF	CITATIONS
274	Surface gravity and crater diameter as proxies of extra-terrestrial impact. Icarus, 2019, 331, 62-68.	1.1	2
275	Dynamical Constraints on Mercury's Collisional Origin. Astronomical Journal, 2019, 157, 208.	1.9	23
276	Terrestrial magma ocean origin of the Moon. Nature Geoscience, 2019, 12, 418-423.	5.4	56
277	Impact Dynamics of Moons Within a Planetary Potential. Journal of Geophysical Research E: Planets, 2019, 124, 1008-1019.	1.5	1
279	Firstâ€Principles Study of Thermodynamics and Spin Transition in FeSiO 3 Liquid at High Pressure. Geophysical Research Letters, 2019, 46, 3706-3716.	1.5	6
280	Enhanced Mixing in Giant Impact Simulations with a New Lagrangian Method. Astrophysical Journal, 2019, 870, 127.	1.6	21
281	The vanadium isotopic composition of lunar basalts. Earth and Planetary Science Letters, 2019, 511, 12-24.	1.8	12
282	Is Earth special?. Earth-Science Reviews, 2019, 192, 445-470.	4.0	4
283	The fate of nitrogen during core-mantle separation on Earth. Geochimica Et Cosmochimica Acta, 2019, 251, 87-115.	1.6	34
284	Primordial Earth Mantle Heterogeneity Caused by the Moon-forming Giant Impact?. Astrophysical Journal, 2019, 887, 211.	1.6	14
285	The history of the core dynamos of Mars and the Moon inferred from their crustal magnetization: a brief review. Canadian Journal of Earth Sciences, 2019, 56, 917-931.	0.6	2
286	Core formation, mantle differentiation and core-mantle interaction within Earth and the terrestrial planets. Tectonophysics, 2019, 760, 165-198.	0.9	67
287	Origin of the Earth and the Late Heavy Bombardment. , 2019, , 27-47.		5
288	Solidification of lunar core from melting experiments on the Fe–Ni–S system. Earth and Planetary Science Letters, 2020, 530, 115834.	1.8	5
289	Magnesium partitioning between silicate melt and liquid iron using first-principles molecular dynamics: Implications for the early thermal history of the Earth's core. Earth and Planetary Science Letters, 2020, 531, 115934.	1.8	10
290	The energy budget and figure of Earth during recovery from the Moon-forming giant impact. Earth and Planetary Science Letters, 2020, 530, 115885.	1.8	15
291	The Energy Budgets of Giant Impacts. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006042.	1.5	31
292	Constraining the early evolution of Venus and Earth through atmospheric Ar, Ne isotope and bulk K/U ratios. Icarus, 2020, 339, 113551.	1.1	47

#	Article	IF	CITATIONS
293	Vertical angular momentum constraint on lunar formation and orbital history. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15460-15464.	3.3	10
294	The shock physics of giant impacts: Key requirements for the equations of state. AIP Conference Proceedings, 2020, , .	0.3	22
295	H <sub>2</sub> O and Other Volatiles in the Moon, 50 Years and on. ACS Earth and Space Chemistry, 2020, 4, 1480-1499.	1.2	5
296	Partial core vaporization during Giant Impacts inferred from the entropy and the critical point of iron. Earth and Planetary Science Letters, 2020, 547, 116463.	1.8	7
297	Tidal Evolution of the Evection Resonance/Quasiâ€Resonance and the Angular Momentum of the Earthâ€Moon System. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006312.	1.5	15
298	The Role of Meteorite Impacts in the Origin of Life. Astrobiology, 2020, 20, 1121-1149.	1.5	63
299	Physical state of an early magma ocean constrained by the thermodynamics and viscosity of iron silicate liquid. Earth and Planetary Science Letters, 2020, 551, 116556.	1.8	3
300	Geochemical Constraints on the Origin of the Moon and Preservation of Ancient Terrestrial Heterogeneities. Space Science Reviews, 2020, 216, 1.	3.7	16
301	Liquidâ€Vapor Coexistence and Critical Point of Mg <sub>2</sub> SiO <sub>4</sub> From Ab Initio Simulations. Geophysical Research Letters, 2020, 47, e2020GL089599.	1.5	6
302	The Critical Point and the Supercritical State of Alkali Feldspars: Implications for the Behavior of the Crust During Impacts. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006412.	1.5	9
303	Can narrow discs in the inner Solar system explain the four terrestrial planets?. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3688-3699.	1.6	6
304	Problem of Iron Isotope Composition of the Earth and Moon. Data on Î'57Fe of Luna 16, Luna 20, and Luna 24 Lunar Soil Samples (Report on the XXII Symposium on the Geochemistry of Stable Isotopes,) Tj ETQq1 1	0.ø <b>&amp;</b> 4314	rgBT /Overlo
305	The selenium isotope composition of lunar rocks: Implications for the formation of the Moon and its volatile loss. Earth and Planetary Science Letters, 2020, 542, 116289.	1.8	8
307	Hadean Earth. , 2020, , .		21
308	A new equation of state applied to planetary impacts. Astronomy and Astrophysics, 2020, 635, A21.	2.1	1
309	Distinct oxygen isotope compositions of the Earth and Moon. Nature Geoscience, 2020, 13, 270-274.	5.4	55
310	A possible high-temperature origin of the Moon and its geochemical consequences. Earth and Planetary Science Letters, 2020, 538, 116222.	1.8	21
311	The hydrogen isotopic composition of lunar melt inclusions: An interplay of complex magmatic and secondary processes. Geochimica Et Cosmochimica Acta, 2020, 284, 196-221.	1.6	10

ARTICLE IF CITATIONS # Experimental constraints on the solidification of a hydrous lunar magma ocean. Meteoritics and 312 0.7 20 Planetary Science, 2020, 55, 207-230. Oxygen Isotopes and Sampling of the Solar System. Space Science Reviews, 2020, 216, 1. 3.7 Venus: A Thick Basal Magma Ocean May Exist Today. Geophysical Research Letters, 2020, 47, 314 1.5 15 e2019GL086126. Silicate Melting and Vaporization During Rocky Planet Formation. Journal of Geophysical Research E: 24 Planets, 2020, 125, e2019JE006227. Geochemistry and Petrogenesis of Northwest Africa 10401: A New Type of the Mgâ€Suite Rocks. Journal 316 1.5 30 of Geophysical Research E: Planets, 2020, 125, e2019JE006225. Analytical Model for the Tidal Evolution of the Evection Resonance and the Timing of Resonance 1.5 Escape. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006266. 318 Potassium isotopic composition of the Moon. Geochimica Et Cosmochimica Acta, 2020, 280, 263-280. 1.6 40 The Role of Early Giant-planet Instability in Terrestrial Planet Formation. Astronomical Journal, 2021, 319 1.9 161, 50. Planetary embryo collisions and the wiggly nature of extreme debris discs. Monthly Notices of the 320 1.6 11 Royal Astronomical Society, 2021, 502, 2984-3002. The origin of the Moon's Earth-like tungsten isotopic composition from dynamical and geochemical 5.8 modeling. Nature Communications, 2021, 12, 35. Timescales of chemical equilibrium between the convecting solid mantle and over- and underlying 322 1.2 5 magma oceans. Solid Earth, 2021, 12, 421-437. Constraints on early Earth's water budget from the evolution of the lunar hydrogen cycle. Global 324 1.6 and Planetary Change, 2021, 197, 103393. Buoyancy and Structure of Volatileâ€Rich Silicate Melts. Journal of Geophysical Research: Solid Earth, 325 1.4 14 2021, 126, e2020JB021045. A thermophysical and dynamical study of the Hildas, (1162) Larissa, and (1911) Schubart. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4981-4992. 1.6 The Fundamental Connections between the Solar System and Exoplanetary Science. Journal of 327 1.5 15 Geophysical Research E: Planets, 2021, 126, e2020 E006643. Isotopic evidence for the formation of the Moon in a canonical giant impact. Nature Communications, 5.8 Dynamical Avenues for Mercury's Origin. I. The Lone Survivor of a Primordial Generation of 329 1.9 12 Short-period Protoplanets. Astronomical Journal, 2021, 161, 240. Hydrodynamic instability at impact interfaces and planetary implications. Nature Communications, 5.8 2021, 12, 2104.

	CITATION	Report	
#	Article	IF	Citations
331	Lava worlds: From early earth to exoplanets. Chemie Der Erde, 2021, 81, 125735.	0.8	19
332	The EOS/resolution conspiracy: convergence in proto-planetary collision simulations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1806-1816.	1.6	6
333	Can a jumping-Jupiter trigger the Moon's formation impact?. Monthly Notices of the Royal Astronomical Society, 2021, 507, 539-547.	1.6	10
334	The astrophysical context of collision processes in meteorites. Meteoritics and Planetary Science, 2021, 56, 1406-1421.	0.7	5
336	Definitions and Explications. , 2021, , 44-57.		0
338	Identification of Meteoritic Minerals in Reflected Light, by Backscattered Electron Imaging, and by Energy Dispersive X-Ray Spectroscopy, Wavelength-Dispersive X-Ray Spectroscopy, and Electron Backscatter Diffraction Analysis. , 2021, , 92-100.		0
339	High-precision photometry with Ariel. Experimental Astronomy, 2022, 53, 607-634.	1.6	4
340	Tidal Evolution of the Earth–Moon System with a High Initial Obliquity. Planetary Science Journal, 2021, 2, 147.	1.5	5
341	Survival of Exomoons Around Exoplanets. Publications of the Astronomical Society of the Pacific, 2021, 133, 094401.	1.0	22
343	Minerals and Meteorites. , 2021, , 1-43.		1
344	Formation of Meteoritic Minerals in Gas- and Dust-Rich Environments. , 2021, , 239-253.		0
346	Formation of Meteoritic Minerals on Parent Bodies. , 2021, , 254-316.		1
347	Properties of Minerals. , 2021, , 66-91.		0
348	Formation of Meteoritic Minerals in the Terrestrial Environment. , 2021, , 317-324.		0
349	Mineralogy of Major Physical Components of Chondrites. , 2021, , 109-152.		0
350	Cosmomineralogy. , 2021, , 200-238.		0
352	The Strange Case of the Aluminum-Copper Alloys. , 2021, , 325-327.		0
353	Petrologic and Mineralogical Characteristics of Meteorite Groups. , 2021, , 153-199.		0

#	ARTICLE
TF	AKIICLL

IF CITATIONS

Meteorite Classification and Taxonomy., 2021, , 101-108. 355 1 Brief Review of Crystallography and Crystal Chemistry., 2021, , 58-65. Migration processes in the Solar System and their role in the evolution of the Earth and planets. 359 0.8 8 Physics-Uspekhi, 2023, 66, 2-31. Accretion and differentiation of early planetary bodies as recorded in the composition of the silicate 1.1 Earth. Icarus, 2021, 365, 114497. Large impact cratering during lunar magma ocean solidification. Nature Communications, 2021, 12, 361 5.8 16 5433. Collision Chains among the Terrestrial Planets. III. Formation of the Moon. Planetary Science Journal, 1.5 Equipping an extraterrestrial laboratory: Overview of open research questions and recommended 363 1.2 8 instrumentation for the Moon. Advances in Space Research, 2021, 68, 2565-2599. Low-spin ferric iron in primordial bridgmanite crystallized from a deep magma ocean. Scientific 364 1.6 Reports, 2021, 11, 19471. Thermal metamorphism on the Moon as recorded by the granulite suite. Journal of the Geological 365 0.9 7 Society, 2022, 179, . Calcium isotope cosmochemistry. Chemical Geology, 2021, 581, 120396. 1.4 The early instability scenario: Mars' mass explained by Jupiter's orbit. Icarus, 2021, 367, 114585. 367 1.1 11 The terrestrial planet formation paradox inferred from high-resolution N-body simulations. Icarus, 368 1.1 2022, 371, 114692. Evolution, Lunar: From Magma Ocean to Crust Formation., 2016, , 1-20. 370 19 Earth's Core. Encyclopedia of Earth Sciences Series, 2017, , 1-13. 371 0.1 The Chemistry of Solar System Materials: Sun, Planets, Asteroids, Meteorites and Dust. Thirty Years of 372 0.3 24 Astronomical Discovery With UKIRT, 2017, , 33-53. Water in the Earth's Interior: Distribution and Origin. Space Sciences Series of ISSI, 2017, , 83-150. Secular change and the onset of plate tectonics on Earth. Earth-Science Reviews, 2020, 207, 103172. 374 4.0 171 A sulfur-poor terrestrial core inferred from metal–silicate partitioning experiments. Earth and 375 1.8 Planetary Science Letters, 2017, 469, 84-97.

# 377	ARTICLE Planetary science: Lunar conspiracies. Nature, 2013, 504, 27-29.	IF 13.7	Citations
378	A new equation of state applied to planetary impacts. Astronomy and Astrophysics, 2020, 643, A40.	2.1	7
379	Solar System Physics for Exoplanet Research. Publications of the Astronomical Society of the Pacific, 2020, 132, 102001.	1.0	29
380	Losing oceans: The effects of composition on the thermal component of impact-driven atmospheric loss. Monthly Notices of the Royal Astronomical Society, 2020, 501, 587-595.	1.6	12
381	Comparative Climatology of Terrestrial Planets. , 2013, , .		6
382	The Atmospheres of the Terrestrial Planets: Clues to the Origins and Early Evolution of Venus, Earth, and Mars. , 2013, , .		19
383	A Geologically Robust Procedure for Observing Rocky Exoplanets to Ensure that Detection of Atmospheric Oxygen Is a Modern Earth-like Biosignature. Astrophysical Journal Letters, 2020, 898, L17.	3.0	5
384	Atmospheric Erosion by Giant Impacts onto Terrestrial Planets: A Scaling Law for any Speed, Angle, Mass, and Density. Astrophysical Journal Letters, 2020, 901, L31.	3.0	16
385	Embryo Formation with GPU Acceleration: Reevaluating the Initial Conditions for Terrestrial Accretion. Planetary Science Journal, 2020, 1, 18.	1.5	23
386	Evaporation from the Lunar Magma Ocean Was Not the Mechanism for Fractionation of the Moon's Moderately Volatile Elements. Planetary Science Journal, 2020, 1, 49.	1.5	14
387	Evidence for Transient Atmospheres during Eruptive Outgassing on the Moon. Planetary Science Journal, 2020, 1, 67.	1.5	11
388	Hadean geodynamics inferred from time-varying 142Nd/144Nd in the early Earth rock record. Geochemical Perspectives Letters, 2018, 7, 43-48.	1.0	26
389	Carbon monoxide gas produced by a giant impact in the inner region of a young system. Nature, 2021, 598, 425-428.	13.7	8
390	Earth's Nearest Neighbor: The Moon. AstroFAQs: Questions Amateur Astronomers Frequently Ask / Stephen Tonkin, 2015, , 87-124.	0.0	0
391	Lunar Magma Ocean Theory, Origins, and Rationale. , 2015, , 1-8.		0
392	EMERGENCE OF LIFE AND ITS EARLY HISTORY. , 2015, , 19-54.		0
393	Insights into Planet Formation from Debris Disks. Space Sciences Series of ISSI, 2016, , 273-307.	0.0	1
394	Tidal Effects. , 2016, , 1-8.		0

#	Article	IF	CITATIONS
395	Giant Impact Hypothesis. Encyclopedia of Earth Sciences Series, 2017, , 1-4.	0.1	0
396	Origin and Evolution of the Moon: Tungsten Isotopic Constraints. , 2018, , 1-9.		0
397	The Delivery of Water During Terrestrial Planet Formation. Space Sciences Series of ISSI, 2018, , 291-314.	0.0	0
398	Earth's Core. Encyclopedia of Earth Sciences Series, 2018, , 418-429.	0.1	0
399	Early Geologic History of the Moon. , 2018, , 1-8.		0
400	Giant Impact Hypothesis. Encyclopedia of Earth Sciences Series, 2018, , 617-620.	0.1	0
401	Globale Voraussetzungen. , 2019, , 21-45.		0
403	Was There Land on the Early Earth?. Life, 2021, 11, 1142.	1.1	21
405	Radionuclide Produced Isotopic Variations in Mantle Rocks. , 2020, , 39-58.		0
408	The core-merging giant impact in Earth's accretion history and its implications. Acta Geochimica, 2022, 41, 553-567.	0.7	1
409	Habitability of the early Earth: liquid water under a faint young Sun facilitated by strong tidal heating due to a closer Moon. Palaontologische Zeitschrift, 2021, 95, 563-575.	0.8	7
410	Astrobiology as a Driver to Connect India's Public, Scientists, and Space Missions. New Space, 0, , .	0.4	1
411	Formation and evolution of the core. , 2022, , 247-280.		0
412	Le précieux butin d'Apollo. Pourlascience Fr, 2019, N° 501 - juillet, 58-64.	0.0	0
413	Formation of the Earth and Moon: Influence of Small Bodies. Geochemistry International, 2021, 59, 1010-1017.	0.2	5
414	Formation of the Lunar Primary Crust From a Longâ€Lived Slushy Magma Ocean. Geophysical Research Letters, 2022, 49, .	1.5	6
415	The Extent, Nature, and Origin of K and Rb Depletions and Isotopic Fractionations in Earth, the Moon, and Other Planetary Bodies. Planetary Science Journal, 2022, 3, 29.	1.5	16
416	Large planets may not form fractionally large moons. Nature Communications, 2022, 13, 568.	5.8	4

#	Article	IF	CITATIONS
417	The Lithophile Element Budget of Earth's Core. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	4
418	The origin of volatile elements in the Earth–Moon system. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
419	Asteroids and Life: How Special Is the Solar System?. Astrophysical Journal Letters, 2022, 926, L20.	3.0	1
420	Rayleigh–Taylor instability in impact cratering experiments. Journal of Fluid Mechanics, 2022, 937, .	1.4	12
421	Secular cooling, differentiation and tectonic regimes of the Hadean Earth from a comparative planetological perspective. Chinese Science Bulletin, 2023, 68, 2284-2295.	0.4	1
422	Primordial Heliumâ€3 Exchange Between Earth's Core and Mantle. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	11
423	Garnet stability in the deep lunar mantle: Constraints on the physics and chemistry of the interior of the Moon. Earth and Planetary Science Letters, 2022, 584, 117491.	1.8	5
424	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.	3.7	6
425	The komatiite testimony to ancient mantle heterogeneity. Chemical Geology, 2022, 594, 120776.	1.4	13
426	Probing the source of ancient linear gravity anomalies on the Moon. Icarus, 2022, 380, 114978.	1.1	4
427	Loss of angular momentum when the planet's atmosphere leaks into space. Bulletin of Taras Shevchenko National University of Kyiv Astronomy, 2021, , 45-47.	0.1	0
428	Did Earth Eat Its Leftovers? Impact Ejecta as a Component of the Late Veneer. Planetary Science Journal, 2022, 3, 83.	1.5	1
429	Core segregation during pebble accretion. Earth and Planetary Science Letters, 2022, 587, 117537.	1.8	5
430	The Creation of Moon: Comparative Analysis between Modern Sciences and Religious Studies. Journal of Islamic Thought and Civilization, 2021, 11, .	0.1	0
431	The initial lunar mantle structure constrained by thermodynamic simulation. Acta Petrologica Sinica, 2022, 38, 1025-1042.	0.3	0
432	Advances in experimental petrology study on the evolution of the lunar magma ocean. Acta Petrologica Sinica, 2022, 38, 1043-1062.	0.3	0
435	A Collision Mechanism for the Removal of Earth's Trojan Asteroids. Planetary Science Journal, 2022, 3, 121.	1.5	2
436	Reduced Atmospheres of Post-impact Worlds: The Early Earth. Planetary Science Journal, 2022, 3, 115.	1.5	18

#	Article	IF	Citations
437	The Influence of Equation of State on the Giant Impact Simulations. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	3
438	Prograde spin-up during gravitational collapse. Astronomy and Astrophysics, 2022, 663, A164.	2.1	5
440	A Review of the Lunar 182Hf-182W Isotope System Research. Minerals (Basel, Switzerland), 2022, 12, 759.	0.8	2
441	Trace element volatility and the conditions of liquid-vapor separation in the proto-lunar disk. Icarus, 2022, 386, 115143.	1.1	2
442	Indigenous noble gases in the Moonâ $\in$ $^{ m Ms}$ interior. Science Advances, 2022, 8, .	4.7	3
443	Thermal state of earth's mantle during accretion. Physics of the Earth and Planetary Interiors, 2022, , 106925.	0.7	0
444	Redox-dependent Ti stable isotope fractionation on the Moon: implications for current lunar magma ocean models. Contributions To Mineralogy and Petrology, 2022, 177, .	1.2	7
445	Impact Earth: A review of the terrestrial impact record. Earth-Science Reviews, 2022, 232, 104112.	4.0	25
446	Rethinking the role of the giant planet instability in terrestrial planet formation models. Icarus, 2023, 389, 115260.	1.1	5
447	Early Thermal Evolution of the Lunar Interiors. , 2022, , 1-14.		0
448	Origin, Geography, and Geology of the Moon. , 2022, , 1-22.		0
449	Immediate Origin of the Moon as a Post-impact Satellite. Astrophysical Journal Letters, 2022, 937, L40.	3.0	8
450	MEGASIM: Lifetimes and Resonances of Earth Trojan Asteroids—The Death of Primordial ETAs?. Astrophysical Journal, 2022, 938, 9.	1.6	2
451	Early thermal evolution and planetary differentiation of the Moon: A giant impact perspective. Journal of Earth System Science, 2022, 131, .	0.6	1
452	Origin of life-forming volatile elements in the inner Solar System. Nature, 2022, 611, 245-255.	13.7	12
453	The accretion of planet Earth. Nature Reviews Earth & Environment, 2023, 4, 19-35.	12.2	4
454	Insights into magma ocean dynamics from the transport properties of basaltic melt. Nature Communications, 2022, 13, .	5.8	6
455	On the Jacobi capture origin of binaries with applications to the Earth-Moon system and black holes in galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2022, 518, 5653-5669.	1.6	10

#	Article	IF	CITATIONS
456	Forming equal-mass planetary binaries via pebble accretion. Astronomy and Astrophysics, 0, , .	2.1	1
457	Solar/planetary formation and evolution. , 2023, , 1-54.		0
458	Anatomy of rocky planets formed by rapid pebble accretion. II. Differentiation by accretion energy and thermal blanketing. Astronomy and Astrophysics, 0, , .	2.1	6
459	Geological timeline of significant events on Earth. , 2023, , 55-114.		1
460	Impact Generation of Holes in the Early Lunar Crust: Scaling Relations. Journal of Geophysical Research E: Planets, 0, , .	1.5	0
461	Compositional variations in Ohm ray crater on the farside of the Moon: Implications for mafic anomaly. Planetary and Space Science, 2023, 229, 105674.	0.9	1
462	Rapid solidification of Earth's magma ocean limits early lunar recession. Icarus, 2023, 400, 115564.	1.1	1
463	Early bombardment of the moon: Connecting the lunar crater record to the terrestrial planet formation. Icarus, 2023, 399, 115545.	1.1	5
464	Mercury's formation within the early instability scenario. Icarus, 2023, 394, 115445.	1.1	0
465	Cerium-Nd isotope evidence for an incompatible element depleted Moon. Earth and Planetary Science Letters, 2023, 606, 118018.	1.8	3
466	Earth's volatile depletion trend is consistent with a high-energy Moon-forming impact. Communications Earth & Environment, 2023, 4, .	2.6	3
467	Studies of the Problems of Planetary Cosmogony, Geochemistry and Cosmochemistry by Methods of Mathematical Modeling. , 2023, , 263-295.		0
468	Atomic structure and physical properties of peridotite glasses at 1 bar. Frontiers in Earth Science, 0, 11, .	0.8	0
469	A sub-Neptune transiting the young field star HD 18599  at 40Âpc. Monthly Notices of the Royal Astronomical Society, 2023, 522, 750-766.	1.6	1
470	Exploration of the Moon by Automatic Spacecraft. Cosmic Research, 2023, 61, 46-69.	0.2	0
471	Biblical Perspectives as a Guide to Research on Life's Origin and History. Religions, 2023, 14, 547.	0.3	0
472	Modeling of the Lunar Magma Ocean. , 2023, , 901-909.		0
473	Early Geologic History of the Moon. , 2023, , 213-220.		Ο

#	Article	IF	CITATIONS
474	Origin and Evolution of the Moon: Tungsten Isotopic Constraints. , 2023, , 949-957.		0
475	Evolution, Lunar: From Magma Ocean to Crust Formation. , 2023, , 268-287.		0
476	Internal Structure/Mantle Motions of the Moon. , 2023, , 361-366.		0
478	Lunar Magma Ocean Theory, Origins, and Rationale. , 2023, , 665-672.		0
479	Crystallization of the Lunar Magma Ocean. , 2023, , 185-195.		0
480	Early Thermal Evolution of the Lunar Interiors. , 2023, , 228-242.		Ο