

# Robin Canup

## List of Publications by Year in descending order

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50  
papers

5,895  
citations

147801

31  
h-index

233421

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the Moon in a giant impact near the end of the Earth's formation. <i>Nature</i> , 2001, 412, 708-712.	27.8	858
2	Simulations of a late lunar-forming impact. <i>Icarus</i> , 2004, 168, 433-456.	2.5	568
3	Forming a Moon with an Earth-like Composition via a Giant Impact. <i>Science</i> , 2012, 338, 1052-1055.	12.6	509
4	On the Character and Consequences of Large Impacts in the Late Stage of Terrestrial Planet Formation. <i>Icarus</i> , 1999, 142, 219-237.	2.5	375
5	Thermal and Magmatic Evolution of the Moon. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 60, 365-518.	4.8	372
6	Formation of the Galilean Satellites: Conditions of Accretion. <i>Astronomical Journal</i> , 2002, 124, 3404-3423.	4.7	342
7	A common mass scaling for satellite systems of gaseous planets. <i>Nature</i> , 2006, 441, 834-839.	27.8	291
8	A Giant Impact Origin of Pluto-Charon. <i>Science</i> , 2005, 307, 546-550.	12.6	270
9	Dynamics of Lunar Formation. <i>Annual Review of Astronomy and Astrophysics</i> , 2004, 42, 441-475.	24.3	256
10	Lunar accretion from an impact-generated disk. <i>Nature</i> , 1997, 389, 353-357.	27.8	205
11	ON A GIANT IMPACT ORIGIN OF CHARON, NIX, AND HYDRA. <i>Astronomical Journal</i> , 2011, 141, 35.	4.7	132
12	Origin of Saturn's rings and inner moons by mass removal from a lost Titan-sized satellite. <i>Nature</i> , 2010, 468, 943-946.	27.8	130
13	Lunar-forming collisions with pre-impact rotation. <i>Icarus</i> , 2008, 196, 518-538.	2.5	123
14	Accretion in the Roche Zone: Coexistence of Rings and Ringmoons. <i>Icarus</i> , 1995, 113, 331-352.	2.5	92
15	CIRCUMPLANETARY DISK FORMATION. <i>Astronomical Journal</i> , 2010, 140, 1168-1193.	4.7	90
16	Lunar volatile depletion due to incomplete accretion within an impact-generated disk. <i>Nature Geoscience</i> , 2015, 8, 918-921.	12.9	84
17	LUNAR ACCRETION FROM A ROCHE-INTERIOR FLUID DISK. <i>Astrophysical Journal</i> , 2012, 760, 83.	4.5	79
18	Accretion of the Moon from an Impact-Generated Disk. <i>Icarus</i> , 1996, 119, 427-446.	2.5	78

#	ARTICLE	IF	CITATIONS
19	Origin of the Ganymedeâ€“Callisto dichotomy by impacts during the late heavy bombardment. <i>Nature Geoscience</i> , 2010, 3, 164-167.	12.9	73
20	4. Thermal and Magmatic Evolution of the Moon. , 2006, , 365-518.		70
21	Lunar-forming impacts: High-resolution SPH and AMR-CTH simulations. <i>Icarus</i> , 2013, 222, 200-219.	2.5	70
22	Heterogeneous delivery of silicate and metal to the Earth by large planetesimals. <i>Nature Geoscience</i> , 2018, 11, 77-81.	12.9	67
23	Evolution of a Terrestrial Multiple-Moon System. <i>Astronomical Journal</i> , 1999, 117, 603-620.	4.7	65
24	Origin of the Moon's orbital inclination from resonant disk interactions. <i>Nature</i> , 2000, 403, 741-743.	27.8	61
25	Constraints on gas giant satellite formation from the interior states of partially differentiated satellites. <i>Icarus</i> , 2008, 198, 163-177.	2.5	61
26	Accretion of the Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 4061-4075.	3.4	61
27	Origin of Phobos and Deimos by the impact of a Vesta-to-Ceres sized body with Mars. <i>Science Advances</i> , 2018, 4, eaar6887.	10.3	49
28	Accretion of Saturnâ€™s Inner Mid-sized Moons from a Massive Primordial Ice Ring. <i>Astrophysical Journal</i> , 2017, 836, 109.	4.5	48
29	Forced Resonant Migration of Pluto's Outer Satellites by Charon. <i>Science</i> , 2006, 313, 1107-1109.	12.6	47
30	Origin of a partially differentiated Titan. <i>Icarus</i> , 2010, 209, 858-862.	2.5	42
31	Credit for Impact Theory. <i>Science</i> , 2013, 342, 1445-1446.	12.6	38
32	Lunar-forming impacts: processes and alternatives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130175.	3.4	38
33	The Obliquity of Jupiter. <i>Astrophysical Journal</i> , 2006, 640, L91-L94.	4.5	36
34	Accretion of the Moon from non-canonical discs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130256.	3.4	24
35	A compositionally heterogeneous martian mantle due to late accretion. <i>Science Advances</i> , 2020, 6, eaay2338.	10.3	24
36	Lunar Accretion from an Impact-Generated Disk. , 2000, , 145-164.		21

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37	Triton's Evolution with a Primordial Neptunian Satellite System. <i>Astronomical Journal</i> , 2017, 154, 208.	4.7	19
38	The Extent, Nature, and Origin of K and Rb Depletions and Isotopic Fractionations in Earth, the Moon, and Other Planetary Bodies. <i>Planetary Science Journal</i> , 2022, 3, 29.	3.6	16
39	Size Distributions of Satellite Dust Ejecta: Effects of Radiation Pressure and Planetary Oblateness. <i>Icarus</i> , 1993, 105, 363-369.	2.5	15
40	Tidal Evolution of the Evection Resonance/Quasi-Resonance and the Angular Momentum of the Earth-Moon System. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006312.	3.6	15
41	Planetary science: Lunar conspiracies. <i>Nature</i> , 2013, 504, 27-29.	27.8	14
42	The Origin of Planetary Ring Systems. , 0, , 517-538.		12
43	Coaccretion + Giant-impact Origin of the Uranus System: Tilting Impact. <i>Astrophysical Journal</i> , 2022, 928, 123.	4.5	8
44	Co-accretion + Giant Impact Origin of the Uranus System: Post-impact Evolution. <i>Astrophysical Journal</i> , 2022, 924, 6.	4.5	7
45	Analytical Model for the Tidal Evolution of the Evection Resonance and the Timing of Resonance Escape. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006266.	3.6	5
46	Geodetic investigations of the mission concept MAGIC to reveal Callisto's internal structure. <i>Acta Astronautica</i> , 2022, 195, 68-76.	3.2	5
47	An incredible likeness of being. <i>Nature</i> , 2015, 520, 169-170.	27.8	1
48	HydroSyMBA: A 1D Hydrocode Coupled with an N-body Symplectic Integrator. <i>Astrophysical Journal</i> , 2019, 881, 129.	4.5	1
49	Stanton J. Peale: Deciphering the motions of planets and moons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10076-10077.	7.1	0
50	The Moon's tilt for gold. <i>Nature</i> , 2015, 527, 455-456.	27.8	0