

# Christopher T Russell

## List of Publications by Year in descending order

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73  
papers

5,332  
citations

116194

36  
h-index

120465

65  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protoplanet Vesta and HED Meteorites. , 2022, , 41-52.		2
2	Carbon and Organic Matter on Ceres. , 2022, , 121-133.		0
3	The Surface Composition of Vesta. , 2022, , 81-104.		0
4	Geomorphology of Vesta. , 2022, , 67-80.		0
5	Isotopic Constraints on the Formation of the Main Belt. , 2022, , 212-226.		1
6	Three-dimensional network of filamentary currents and super-thermal electrons during magnetotail magnetic reconnection. Nature Communications, 2022, 13, .	5.8	11
7	The Boulder Population of Asteroid 4 Vesta: Size-Frequency Distribution and Survival Time. Earth and Space Science, 2021, 8, e2019EA000941.	1.1	17
8	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. Astrophysical Journal, 2021, 923, 151.	1.6	5
9	Origin of two-band chorus in the radiation belt of Earth. Nature Communications, 2019, 10, 4672.	5.8	52
10	Reconnection in the Martian Magnetotail: Hall-MHD With Embedded Particle-in-Cell Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 3742-3763.	0.8	20
11	Dawn at Vesta: Paradigms and Paradoxes. , 2017, , 321-339.		8
12	Global variations in regolith properties on asteroid Vesta from Dawn's low-altitude mapping orbit. Meteoritics and Planetary Science, 2016, 51, 2366-2386.	0.7	11
13	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. Geophysical Research Letters, 2016, 43, 5988-5996.	1.5	10
14	Reflectance properties and hydrated material distribution on Vesta: Global investigation of variations and their relationship using improved calibration of Dawn VIR mapping spectrometer. Icarus, 2015, 259, 21-38.	1.1	21
15	The February 24, 2010 substorm: a refined view involving a pseudobreakup/expansive phase/poleward boundary intensification sequence. Earth, Planets and Space, 2015, 67, .	0.9	3
16	Exogenic olivine on Vesta from Dawn Framing Camera color data. Icarus, 2015, 258, 467-482.	1.1	28
17	Detection of new olivine-rich locations on Vesta. Icarus, 2015, 258, 120-134.	1.1	37
18	Composition of the northern regions of Vesta analyzed by the Dawn mission. Icarus, 2015, 259, 53-71.	1.1	25

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19	Geomorphological evidence for transient water flow on Vesta. <i>Earth and Planetary Science Letters</i> , 2015, 411, 151-163.	1.8	42
20	Detections and geologic context of local enrichments in olivine on Vesta with VIR/Dawn data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2078-2108.	1.5	33
21	Composition and mineralogy of dark material units on Vesta. <i>Icarus</i> , 2014, 240, 58-72.	1.1	41
22	Geologic mapping of ejecta deposits in Oppia Quadrangle, Asteroid (4) Vesta. <i>Icarus</i> , 2014, 244, 104-119.	1.1	13
23	Detection of serpentine in exogenic carbonaceous chondrite material on Vesta from Dawn FC data. <i>Icarus</i> , 2014, 239, 222-237.	1.1	34
24	Electric currents of a substorm current wedge on 24 February 2010. <i>Geophysical Research Letters</i> , 2014, 41, 4449-4455.	1.5	17
25	Geologic map of the northern hemisphere of Vesta based on Dawn Framing Camera (FC) images. <i>Icarus</i> , 2014, 244, 41-59.	1.1	29
26	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , 2014, 244, 74-88.	1.1	36
27	Vesta's north pole quadrangle Av-1 (Albana): Geologic map and the nature of the south polar basin antipodes. <i>Icarus</i> , 2014, 244, 13-22.	1.1	14
28	Constraining the cratering chronology of Vesta. <i>Planetary and Space Science</i> , 2014, 103, 131-142.	0.9	41
29	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	1.1	37
30	Olivine or impact melt: Nature of the "Orange" material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	1.1	47
31	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2185-2198.	0.7	75
32	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2166-2184.	0.7	87
33	Dawn; the Vesta-HED connection; and the geologic context for eucrites, diogenites, and howardites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2090-2104.	0.7	185
34	Neutron absorption constraints on the composition of 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2211-2236.	0.7	47
35	Mass-wasting features and processes in Vesta's south polar basin, Rheasilvia. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2279-2294.	1.5	30
36	Composition of the Rheasilvia basin, a window into Vesta's interior. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 335-346.	1.5	84

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37	Elemental Mapping by Dawn Reveals Exogenic H in Vesta's Regolith. <i>Science</i> , 2012, 338, 242-246.	6.0	201
38	Delivery of dark material to Vesta via carbonaceous chondritic impacts. <i>Icarus</i> , 2012, 221, 544-559.	1.1	152
39	Improved measurement of Asteroid (4) Vesta's rotational axis orientation. <i>Icarus</i> , 2011, 211, 528-534.	1.1	18
40	Photometric mapping of Asteroid (4) Vesta's southern hemisphere with Hubble Space Telescope. <i>Icarus</i> , 2010, 208, 238-251.	1.1	88
41	Response to Comment on "Tail Reconnection Triggering Substorm Onset". <i>Science</i> , 2009, 324, 1391-1391.	6.0	45
42	Reply to comment by K. Liou and Y.-L. Zhang on "Wavelet-based ULF wave diagnosis of substorm expansion phase onset". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9
43	Timing and localization of ionospheric signatures associated with substorm expansion phase onset. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	58
44	Near-Earth initiation of a terrestrial substorm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
45	Tail Reconnection Triggering Substorm Onset. <i>Science</i> , 2008, 321, 931-935.	6.0	551
46	Coupling of system resource margins through the use of electric propulsion: Implications in preparing for the Dawn mission to Ceres and Vesta. <i>Acta Astronautica</i> , 2007, 60, 930-938.	1.7	47
47	Dawn: A mission in development for exploration of main belt asteroids Vesta and Ceres. <i>Acta Astronautica</i> , 2006, 58, 605-616.	1.7	178
48	Preparing for the Dawn Mission to Vesta and Ceres. , 2005, , .		4
49	Magnetized or unmagnetized: Ambiguity persists following Galileo's encounters with Io in 1999 and 2000. <i>Journal of Geophysical Research</i> , 2001, 106, 26121-26135.	3.3	31
50	Galileo Magnetometer Measurements: A Stronger Case for a Subsurface Ocean at Europa. <i>Science</i> , 2000, 289, 1340-1343.	6.0	576
51	ISEE-1, -2 and -3 observation of the interaction between an interplanetary shock and the Earth's magnetosphere: A rapid traversal of the magnetopause. <i>Geophysical Research Letters</i> , 1981, 8, 911-914.	1.5	14
52	The statistical magnetic signature of magnetospheric substorms. <i>Planetary and Space Science</i> , 1978, 26, 269-279.	0.9	113
53	Characteristics of the association between the interplanetary magnetic field and substorms. <i>Journal of Geophysical Research</i> , 1977, 82, 4837-4842.	3.3	120
54	The IMS Satellite Programme: Scientific Objectives. <i>Astrophysics and Space Science Library</i> , 1976, , 9-42.	1.0	1

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55	Substorm and interplanetary magnetic field effects on the geomagnetic tail lobes. Journal of Geophysical Research, 1975, 80, 191-194.	3.3	173
56	The Solar Wind and Magnetospheric Dynamics. Astrophysics and Space Science Library, 1974, , 3-47.	1.0	34
57	OGO-5 Observations of the Magnetopause. Astrophysics and Space Science Library, 1974, , 139-157.	1.0	14
58	Dependence of the polar cusp on the north-south component of the interplanetary magnetic field. Journal of Geophysical Research, 1973, 78, 3761-3772.	3.3	46
59	Comments on the paper "The internal structure of the geomagnetic neutral sheet" by K. Schindler and N. F. Ness. Journal of Geophysical Research, 1973, 78, 7576-7579.	3.3	11
60	Solar wind and substorm-related changes in the lobes of the geomagnetic tail. Journal of Geophysical Research, 1973, 78, 8087-8096.	3.3	104
61	Study of waves in the Earth's bow shock. Journal of Geophysical Research, 1972, 77, 2264-2273.	3.3	54
62	Outer magnetosphere near midnight at quiet and disturbed times. Journal of Geophysical Research, 1972, 77, 5487-5502.	3.3	98
63	Magnetic and Electric Waves in Space. Astrophysics and Space Science Library, 1972, , 39-50.	1.0	2
64	Motion and structure of the magnetopause. Journal of Geophysical Research, 1971, 76, 1673-1696.	3.3	165
65	Ogo 5 observations of the polar cusp on November 1, 1968. Journal of Geophysical Research, 1971, 76, 6743-6764.	3.3	139
66	OGO 3 observations of ELF noise in the magnetosphere: 2. The nature of the equatorial noise. Journal of Geophysical Research, 1970, 75, 755-768.	3.3	254
67	The Alfvén velocity in the magnetosphere and its relationship to ELF emissions. Journal of Geophysical Research, 1970, 75, 5582-5586.	3.3	28
68	Inward motion of the magnetopause before a substorm. Journal of Geophysical Research, 1970, 75, 7018-7031.	3.3	302
69	AC Magnetic Fields. Astrophysics and Space Science Library, 1970, , 195-212.	1.0	19
70	OGO 3 observations of ELF noise in the magnetosphere: 1. Spatial extent and frequency of occurrence. Journal of Geophysical Research, 1969, 74, 755-777.	3.3	221
71	Magnetic noise in the magnetosheath in the frequency range 3-300 hz. Journal of Geophysical Research, 1967, 72, 4803-4813.	3.3	65
72	Some remarks on the position and shape of the neutral sheet. Journal of Geophysical Research, 1967, 72, 6104-6106.	3.3	182

#	ARTICLE	IF	CITATIONS
73	Reconnexion. Special Publications, 0, , 526-540.	0.0	12