

The Violent Collisional History of Asteroid 4 Vesta

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Distinctive space weathering on Vesta from regolith mixing processes. <i>Nature</i> , 2012, 491, 79-82.	27.8	120
3	Elemental Mapping by Dawn Reveals Exogenic H in Vesta's Regolith. <i>Science</i> , 2012, 338, 242-246.	12.6	201
4	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
5	DETECTION OF WIDESPREAD HYDRATED MATERIALS ON VESTA BY THE VIR IMAGING SPECTROMETER ON BOARD THE <i>DAWN</i> MISSION. <i>Astrophysical Journal Letters</i> , 2012, 758, L36.	8.3	117
6	Volcanic activity on differentiated asteroids: A review and analysis. <i>Chemie Der Erde</i> , 2012, 72, 289-321.	2.0	58
7	Dawn at Vesta: Testing the Protoplanetary Paradigm. <i>Science</i> , 2012, 336, 684-686.	12.6	422
8	Space missions trigger map wars. <i>Nature</i> , 2012, 488, 442-443.	27.8	0
9	Companies set to fight food-label plan. <i>Nature</i> , 2012, 488, 443-443.	27.8	2
11	Vesta confirmed as a venerable planet progenitor. <i>Nature</i> , 2012, , .	27.8	0
12	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	12.6	222
13	The Geologically Recent Giant Impact Basins at Vesta's South Pole. <i>Science</i> , 2012, 336, 694-697.	12.6	194
14	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	12.6	240
15	The quest for regolith howardites. Part 1: Two trends uncovered using noble gases. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 395-421.	3.9	31
16	The structure of the asteroid 4 Vesta as revealed by models of planet-scale collisions. <i>Nature</i> , 2013, 494, 207-210.	27.8	85
17	Olivine or impact melt: Nature of the "Orange" material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	2.5	47
18	Record of S-rich vapors on asteroid 4 Vesta: Sulfurization in the Northwest Africa 2339 eucrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 1-13.	3.9	27
19	Impact history of the HED parent body(ies) clarified by new ⁴⁰ Ar/ ³⁹ Ar analyses of four HED meteorites and one anomalous basaltic achondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 162-182.	3.9	31
20	High-velocity collisions from the lunar cataclysm recorded in asteroidal meteorites. <i>Nature Geoscience</i> , 2013, 6, 303-307.	12.9	113

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21	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	1.6	54
22	In situ laser ablation ICP-MS analyses of diogenites: Further evidence for harzburgitic and orthopyroxenitic lithologies. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1050-1059.	1.6	5
23	Shock Events in the Solar System: The Message from Minerals in Terrestrial Planets and Asteroids. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 257-285.	11.0	73
24	On de-Sitter geometry in crater statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1045-1050.	4.4	2
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26	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2185-2198.	1.6	75
27	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2166-2184.	1.6	87
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29	Olivine in an unexpected location on Vesta's surface. <i>Nature</i> , 2013, 504, 122-125.	27.8	82
30	Vesta, vestoids, and the HED meteorites: Interconnections and differences based on Dawn Framing Camera observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1991-2003.	3.6	11
31	Mass wasting features and processes in Vesta's south polar basin Rheasilvia. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2279-2294.	3.6	30
32	Composition of the Rheasilvia basin, a window into Vesta's interior. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 335-346.	3.6	84
33	Antipodal terrains created by the Rheasilvia basin forming impact on asteroid 4 Vesta. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1821-1834.	3.6	22
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35	MULTIPLE AND FAST: THE ACCRETION OF ORDINARY CHONDRITE PARENT BODIES. <i>Astrophysical Journal</i> , 2014, 791, 120.	4.5	75
36	Discovery of coesite and stishovite in eucrite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10939-10942.	7.1	36
37	More chips off of Asteroid (4) Vesta: Characterization of eight Vestoids and their HED meteorite analogs. <i>Icarus</i> , 2014, 242, 269-282.	2.5	29
38	Lightcurve survey of V-type asteroids in the inner asteroid belt. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	6

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39	Olivine-rich exposures at Bellicia and Arruntia craters on (4) Vesta from Dawn Framing Camera (FC) images. Meteoritics and Planetary Science, 2014, 49, 1831-1850.	1.6	20
40	Geomorphology and structural geology of Saturnalia Fossae and adjacent structures in the northern hemisphere of Vesta. Icarus, 2014, 244, 23-40.	2.5	27
41	Asymmetric craters on Vesta: Impact on sloping surfaces. Planetary and Space Science, 2014, 103, 36-56.	1.7	34
42	Introduction: The geologic mapping of Vesta. Icarus, 2014, 244, 1-12.	2.5	43
43	The fate of magmas in planetesimals and the retention of primitive chondritic crusts. Earth and Planetary Science Letters, 2014, 390, 128-137.	4.4	48
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50	Crater depth-to-diameter distribution and surface properties of (4) Vesta. Planetary and Space Science, 2014, 103, 57-65.	1.7	41
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52	Morphology and formation ages of mid-sized post-Rheasilvia craters in the Geology of quadrangle Tuccia, Vesta. Icarus, 2014, 244, 133-157.	2.5	27
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55	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. Icarus, 2014, 244, 74-88.	2.5	36
56	The contamination of the surface of Vesta by impacts and the delivery of the dark material. Icarus, 2014, 240, 86-102.	2.5	28

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58	Small crater populations on Vesta. <i>Planetary and Space Science</i> , 2014, 103, 96-103.	1.7	54
59	Geologic mapping of Vesta. <i>Planetary and Space Science</i> , 2014, 103, 2-23.	1.7	55
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61	Asteroid families classification: Exploiting very large datasets. <i>Icarus</i> , 2014, 239, 46-73.	2.5	171
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66	Vesta surface thermal properties map. <i>Geophysical Research Letters</i> , 2014, 41, 1438-1443.	4.0	46
67	Size-frequency distribution of crater populations in equilibrium on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 2277-2292.	3.6	62
68	Predictions for impactor contamination on Ceres based on hypervelocity impact experiments. <i>Geophysical Research Letters</i> , 2015, 42, 7890-7898.	4.0	28
69	Comet 67P/Churyumov-Gerasimenko: Constraints on its origin from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A44.	5.1	53
70	Eucritic crust remnants and the effect of in-falling hydrous carbonaceous chondrites characterizing the composition of Vesta's Marcia region. <i>Icarus</i> , 2015, 259, 91-115.	2.5	8
71	Mineralogic mapping of the Av-9 Numisia quadrangle of Vesta. <i>Icarus</i> , 2015, 259, 116-128.	2.5	6
72	VESTOIDS, PART II: THE BASALTIC NATURE AND HED METEORITE ANALOGS FOR EIGHT <i>V</i> -TYPE ASTEROIDS AND THEIR ASSOCIATIONS WITH (4) VESTA. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 19.	7.7	12
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76	Vesta's missing moons: Comprehensive search for natural satellites of Vesta by the Dawn spacecraft. <i>Icarus</i> , 2015, 257, 207-216.	2.5	9
77	Asteroid (4) Vesta: I. The howardite-eucrite-diogenite (HED) clan of meteorites. <i>Chemie Der Erde</i> , 2015, 75, 155-183.	2.0	134
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80	Compositional variations in the Vestan Rheasilvia basin. <i>Icarus</i> , 2015, 259, 194-202.	2.5	8
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88	The Explored Asteroids: Science and Exploration in the Space Age. <i>Space Science Reviews</i> , 2015, 194, 139-235.	8.1	5
89	Growing the terrestrial planets from the gradual accumulation of submeter-sized objects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14180-14185.	7.1	142
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91	Mineralogy of Marcia, the youngest large crater of Vesta: Character and distribution of pyroxenes and hydrated material. <i>Icarus</i> , 2015, 248, 392-406.	2.5	9
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126	Statistical analysis of the spectral properties of V-type asteroids: A review on what we known and what is still missing. Planetary and Space Science, 2018, 164, 37-43.	1.7	7
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150	Optical Imaging Instruments and Main Science Results of Small Body Exploration: A Review. <i>IEEE Access</i> , 2021, 9, 78973-78992.	4.2	1
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