

The Geologically Recent Giant Impact Basins at 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
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12	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	12.6	240
13	The Violent Collisional History of Asteroid 4 Vesta. <i>Science</i> , 2012, 336, 690-694.	12.6	209
14	Color and Albedo Heterogeneity of Vesta from Dawn. <i>Science</i> , 2012, 336, 700-704.	12.6	166
15	The quest for regolithic howardites. Part 1: Two trends uncovered using noble gases. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 395-421.	3.9	31
16	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	2.5	37
17	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
18	Optical maturation of asteroid surfaces. <i>Icarus</i> , 2013, 225, 781-793.	2.5	23
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	Distribution of iron on Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2237-2251.	1.6	35
23	The Vestan cataclysm: Impact melt clasts in howardites and the bombardment history of 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 771-785.	1.6	32
24	Lithologic mapping of HED terrains on Vesta using Dawn Framing Camera color data. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2199-2210.	1.6	26
25	Mixing relations of the howardite-eucrite-diogenite suite: A new statistical approach of independent component analysis for the Dawn mission. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2289-2299.	1.6	12
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	The heating history of Vesta and the onset of differentiation. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2316-2332.	1.6	27
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32	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
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34	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
35	Two-dimensional numerical modeling of the Rheasilvia impact formation. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1545-1557.	3.6	43
36	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
38	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.	3.6	33
40	Complex Crater. , 2014, , 1-17.		2

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41	Central Peak Crater. , 2014, , 1-9.		0
42	More chips off of Asteroid (4) Vesta: Characterization of eight Vestoids and their HED meteorite analogs. Icarus, 2014, 242, 269-282.	2.5	29
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45	Geomorphology and structural geology of Saturnalia Fossae and adjacent structures in the northern hemisphere of Vesta. Icarus, 2014, 244, 23-40.	2.5	27
46	Introduction: The geologic mapping of Vesta. Icarus, 2014, 244, 1-12.	2.5	43
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57	Morphology and formation ages of mid-sized post-Rheasilvia craters -€ Geology of quadrangle Tuccia, Vesta. Icarus, 2014, 244, 133-157.	2.5	27
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60	The unique geomorphology and physical properties of the Vestalia Terra plateau. <i>Icarus</i> , 2014, 244, 89-103.	2.5	33
61	The oxygen isotope composition of diogenites: Evidence for early global melting on a single, compositionally diverse, HED parent body. <i>Earth and Planetary Science Letters</i> , 2014, 390, 165-174.	4.4	50
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63	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.	2.5	14
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74	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
75	Petrology and geochemistry of Northwest Africa 5480 diogenite and evidence for a basin-forming event on Vesta. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1260-1270.	1.6	6
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146	Influence of Volatiles on Mass Wasting Processes on Vesta and Ceres. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006573.	3.6	1
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