

# Dawn at Vesta: Testing the Protoplanetary Paradigm

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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.	13.7	120
2	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	13.7	151
4	Antarctic meteorites and the origin of planetesimals and protoplanets. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 130-134.	0.0	0
5	Ordinary (mesostasis) and not-ordinary (symplectites) late-stage assemblages in howardites. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1475-1490.	0.7	21
6	High resolution Vesta High Altitude Mapping Orbit (HAMO) Atlas derived from Dawn framing camera images. <i>Planetary and Space Science</i> , 2012, 73, 283-286.	0.9	51
7	An Ancient Core Dynamo in Asteroid Vesta. <i>Science</i> , 2012, 338, 238-241.	6.0	81
8	Elemental Mapping by Dawn Reveals Exogenic H in Vesta's Regolith. <i>Science</i> , 2012, 338, 242-246.	6.0	201
9	A Golden Spike for Planetary Science. <i>Science</i> , 2012, 338, 203-204.	6.0	6
10	Large-scale troughs on Vesta: A signature of planetary tectonics. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	63
11	Abundance, distribution, and origin of <sup>60</sup> Fe in the solar protoplanetary disk. <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 248-263.	1.8	174
12	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.	3.0	117
13	Volcanic activity on differentiated asteroids: A review and analysis. <i>Chemie Der Erde</i> , 2012, 72, 289-321.	0.8	58
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17	Vesta confirmed as a venerable planet progenitor. <i>Nature</i> , 2012, , .	13.7	0
18	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	6.0	222
19	The Geologically Recent Giant Impact Basins at Vesta's South Pole. <i>Science</i> , 2012, 336, 694-697.	6.0	194
20	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	6.0	240

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21	The Violent Collisional History of Asteroid 4 Vesta. <i>Science</i> , 2012, 336, 690-694.	6.0	209
22	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	1.1	68
23	Reconciling main belt asteroid spectral flux density measurements with a self-consistent thermophysical model. <i>Icarus</i> , 2013, 226, 1086-1102.	1.1	22
24	Resolved photometry of Vesta reveals physical properties of crater regolith. <i>Planetary and Space Science</i> , 2013, 85, 198-213.	0.9	59
25	High-resolution Vesta Low Altitude Mapping Orbit Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , 2013, 85, 293-298.	0.9	26
26	Evidence for Water in the Rocky Debris of a Disrupted Extrasolar Minor Planet. <i>Science</i> , 2013, 342, 218-220.	6.0	168
27	The shape of Enceladus as explained by an irregular core: Implications for gravity, libration, and survival of its subsurface ocean. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1775-1788.	1.5	19
28	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	1.1	37
29	The structure of the asteroid 4 Vesta as revealed by models of planet-scale collisions. <i>Nature</i> , 2013, 494, 207-210.	13.7	85
30	The inner small satellites of Saturn: A variety of worlds. <i>Icarus</i> , 2013, 226, 999-1019.	1.1	43
31	SIMS Pb-Pb and U-Pb age determination of eucrite zircons at $\leq 5\frac{1}{4}$ m scale and the first 50Ma of the thermal history of Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 152-175.	1.6	74
32	In-flight calibration of the Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1304-1317.	1.1	36
33	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.	1.6	27
34	A new approach to determining asteroid masses from planetary range measurements. <i>Icarus</i> , 2013, 222, 243-253.	1.1	55
35	The taxonomic distribution of asteroids from multi-filter all-sky photometric surveys. <i>Icarus</i> , 2013, 226, 723-741.	1.1	302
36	High-velocity collisions from the lunar cataclysm recorded in asteroidal meteorites. <i>Nature Geoscience</i> , 2013, 6, 303-307.	5.4	113
37	Differentiated Planetesimals and the Parent Bodies of Chondrites. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 529-560.	4.6	118
38	Redox state during core formation on asteroid 4-Vesta. <i>Earth and Planetary Science Letters</i> , 2013, 373, 75-82.	1.8	50

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39	ASTEROID FAMILY IDENTIFICATION USING THE HIERARCHICAL CLUSTERING METHOD AND <i>WISE</i> /NEOWISE PHYSICAL PROPERTIES. <i>Astrophysical Journal</i> , 2013, 770, 7.	1.6	108
40	Yarkovsky-driven impact risk analysis for asteroid (99942) Apophis. <i>Icarus</i> , 2013, 224, 192-200.	1.1	85
41	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	0.7	54
42	Updated IAA RAS planetary ephemerides-EPM2011 and their use in scientific research. <i>Solar System Research</i> , 2013, 47, 386-402.	0.3	78
43	Femtosecond Visualization of Lattice Dynamics in Shock-Compressed Matter. <i>Science</i> , 2013, 342, 220-223.	6.0	176
44	A multidomain approach to asteroid families'™ identification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2075-2096.	1.6	50
45	Global gravity inversion of bodies with arbitrary shape. <i>Geophysical Journal International</i> , 2013, 195, 260-275.	1.0	17
46	Distribution of iron on Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2237-2251.	0.7	35
47	Lithologic mapping of <i>HED</i> terrains on Vesta using Dawn Framing Camera color data. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2199-2210.	0.7	26
48	Constraints on Vesta's elemental composition: Fast neutron measurements by Dawn's gamma ray and neutron detector. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2271-2288.	0.7	28
49	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.	0.7	12
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51	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
52	Compositional variability on the surface of 4 Vesta revealed through <i>GR</i> <i>ND</i> measurements of high-energy gamma rays. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2252-2270.	0.7	53
53	Dawn; the Vesta " <i>HED</i> connection; and the geologic context for eucrites, diogenites, and howardites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2090-2104.	0.7	185
54	Chondritic models of 4 Vesta: Implications for geochemical and geophysical properties. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2300-2315.	0.7	66
55	Neutron absorption constraints on the composition of 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2211-2236.	0.7	47
56	Olivine in an unexpected location on Vesta's™ surface. <i>Nature</i> , 2013, 504, 122-125.	13.7	82

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57	Vesta, vestoids, and the HED meteorites: Interconnections and differences based on <i>Dawn</i> Framing Camera observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1991-2003.	1.5	11
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60	What Makes a Habitable Planet?. <i>Eos</i> , 2013, 94, 149-150.	0.1	4
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62	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.	1.5	22
63	Chaotic diffusion caused by close encounters with several massive asteroids. <i>Astronomy and Astrophysics</i> , 2013, 550, A85.	2.1	15
64	Astrometric asteroid masses: a simultaneous determination. <i>Astronomy and Astrophysics</i> , 2014, 565, A56.	2.1	20
65	Selecting asteroids for a targeted spectroscopic survey. <i>Astronomy and Astrophysics</i> , 2014, 572, A29.	2.1	16
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67	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
68	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.	3.3	36
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72	Olivine-rich exposures at Bellicia and Arruntia craters on (4) Vesta from Dawn <sc>FC</sc>. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1831-1850.	0.7	20
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77	The Formation of Jupiter, the Jovian Early Bombardment and the Delivery of Water to the Asteroid Belt: The Case of (4) Vesta. Life, 2014, 4, 4-34.	1.1	22
78	Composition and mineralogy of dark material units on Vesta. Icarus, 2014, 240, 58-72.	1.1	41
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89	Low-speed impact simulations into regolith in support of asteroid sampling mechanism design I: Comparison with 1-g experiments. Planetary and Space Science, 2014, 103, 174-183.	0.9	31
90	Geologic mapping of ejecta deposits in Oppia Quadrangle, Asteroid (4) Vesta. Icarus, 2014, 244, 104-119.	1.1	13
91	A deep crust-mantle boundary in the asteroid 4 Vesta. Nature, 2014, 511, 303-306.	13.7	54
92	Imprint of the Rheasilvia impact on Vesta - Geologic mapping of quadrangles Gegania and Lucaria. Icarus, 2014, 244, 60-73.	1.1	15

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94	Harmonic and statistical analyses of the gravity and topography of Vesta. <i>Icarus</i> , 2014, 240, 161-173.	1.1	18
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98	Development of planetary ephemerides EPM and their applications. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 119, 237-256.	0.5	58
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105	Morphology driven density distribution estimation for small bodies. <i>Icarus</i> , 2014, 233, 179-193.	1.1	23
106	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
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110	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.	1.8	50

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113	The contamination of the surface of Vesta by impacts and the delivery of the dark material. <i>Icarus</i> , 2014, 240, 86-102.	1.1	28
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123	The quest for regolithic howardites. Part 2: Surface origins highlighted by noble gases. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 488-508.	1.6	18
124	Dawn's exploration of Vesta. <i>Acta Astronautica</i> , 2014, 94, 159-167.	1.7	34
125	Lobate and flow-like features on asteroid Vesta. <i>Planetary and Space Science</i> , 2014, 103, 24-35.	0.9	42
126	Mass movement on Vesta at steep scarps and crater rims. <i>Icarus</i> , 2014, 244, 120-132.	1.1	49
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128	Unconsolidated boulders on the surface of Itokawa. <i>Planetary and Space Science</i> , 2014, 95, 94-102.	0.9	7



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136	THE PHYSICAL CHARACTERIZATION OF THE POTENTIALLY HAZARDOUS ASTEROID 2004 BL86: A FRAGMENT OF A DIFFERENTIATED ASTEROID. <i>Astrophysical Journal</i> , 2015, 811, 65.	1.6	6
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138	VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno. <i>Astronomy and Astrophysics</i> , 2015, 581, L3.	2.1	24
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142	Mineralogic mapping of the Av-9 Numisia quadrangle of Vesta. <i>Icarus</i> , 2015, 259, 116-128.	1.1	6
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149	Compositional variations in the Vestan Rheasilvia basin. <i>Icarus</i> , 2015, 259, 194-202.	1.1	8
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151	Tectonism and magmatism identified on asteroids. <i>Geological Society Special Publication</i> , 2015, 401, 423-441.	0.8	5
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154	The Sextilia-region on Asteroid 4Vesta – Stratigraphy and variegation. <i>Icarus</i> , 2015, 259, 162-180.	1.1	8
155	Micrometer-scale U–Pb age domains in eucrite zircons, impact re-setting, and the thermal history of the HED parent body. <i>Icarus</i> , 2015, 245, 367-378.	1.1	32
156	Detection of new olivine-rich locations on Vesta. <i>Icarus</i> , 2015, 258, 120-134.	1.1	37
157	Vesta's Pinaris region: Original basaltic achondrite material derived from mixing upper and lower crust. <i>Icarus</i> , 2015, 259, 150-161.	1.1	4
158	Concentrations of potassium and thorium within Vesta's regolith. <i>Icarus</i> , 2015, 259, 39-52.	1.1	33
159	Asteroids and Comets. , 2015, , 487-528.		2
160	Is Vesta an intact and pristine protoplanet?. <i>Icarus</i> , 2015, 254, 190-201.	1.1	30
161	Modal mineralogy of the surface of Vesta: Evidence for ubiquitous olivine and identification of meteorite analogue. <i>Icarus</i> , 2015, 253, 364-377.	1.1	17
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164	Composition of the northern regions of Vesta analyzed by the Dawn mission. <i>Icarus</i> , 2015, 259, 53-71.	1.1	25
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