

# Color and Albedo Heterogeneity of Vesta from Dawn

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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
2	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
4	The 75th Annual Meeting of the Meteoritical Society Cairns, Australia, 12-17 August, 2012. <i>Meteoritics and Planetary Science</i> , 2012, 47, A35-A436.	1.6	2
5	An Ancient Core Dynamo in Asteroid Vesta. <i>Science</i> , 2012, 338, 238-241.	12.6	81
6	Elemental Mapping by Dawn Reveals Exogenic H in Vesta's Regolith. <i>Science</i> , 2012, 338, 242-246.	12.6	201
7	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
8	Large-scale troughs on Vesta: A signature of planetary tectonics. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	63
9	Delivery of dark material to Vesta via carbonaceous chondritic impacts. <i>Icarus</i> , 2012, 221, 544-559.	2.5	152
10	Dawn at Vesta: Testing the Protoplanetary Paradigm. <i>Science</i> , 2012, 336, 684-686.	12.6	422
11	Space missions trigger map wars. <i>Nature</i> , 2012, 488, 442-443.	27.8	0
12	Companies set to fight food-label plan. <i>Nature</i> , 2012, 488, 443-443.	27.8	2
14	Vesta confirmed as a venerable planet progenitor. <i>Nature</i> , 2012, , .	27.8	0
15	The Geologically Recent Giant Impact Basins at Vesta's South Pole. <i>Science</i> , 2012, 336, 694-697.	12.6	194
16	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	2.5	68
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18	Stray light calibration of the Dawn Framing Camera. <i>Proceedings of SPIE</i> , 2013, , .	0.8	6
19	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	2.5	37
20	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

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21	Rotational characterization of Hayabusa II target Asteroid (162173) 1999 JU3. <i>Icarus</i> , 2013, 224, 24-31.	2.5	57
22	Olivine or impact melt: Nature of the "Orange" material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	2.5	47
23	Optical maturation of asteroid surfaces. <i>Icarus</i> , 2013, 225, 781-793.	2.5	23
24	The 2.5–5.1 $\mu$ m reflectance spectra of HED meteorites and their constituent minerals: Implications for Dawn. <i>Icarus</i> , 2013, 225, 581-601.	2.5	8
25	Spectral reflectance properties of HED meteorites + CM2 carbonaceous chondrites: Comparison to HED grain size and compositional variations and implications for the nature of low-albedo features on Asteroid 4 Vesta. <i>Icarus</i> , 2013, 223, 850-877.	2.5	49
26	Mineralogies and source regions of near-Earth asteroids. <i>Icarus</i> , 2013, 222, 273-282.	2.5	112
27	Impact history of the HED parent body(ies) clarified by new $^{40}\text{Ar}/^{39}\text{Ar}$ analyses of four HED meteorites and one anomalous basaltic achondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 162-182.	3.9	31
28	Surface composition and taxonomic classification of a group of near-Earth and Mars-crossing asteroids. <i>Icarus</i> , 2013, 225, 131-140.	2.5	42
29	ASTEROID FAMILY IDENTIFICATION USING THE HIERARCHICAL CLUSTERING METHOD AND WISE/NEOWISE PHYSICAL PROPERTIES. <i>Astrophysical Journal</i> , 2013, 770, 7.	4.5	108
30	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	1.6	54
31	Distribution of iron on Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2237-2251.	1.6	35
32	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
33	Composition and petrology of HED polymict breccias: The regolith of (4) Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2105-2134.	1.6	42
34	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.	1.6	28
35	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
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37	Compositional variability on the surface of 4 Vesta revealed through GRaND measurements of high-energy gamma rays. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2252-2270.	1.6	53
38	Dawn; the Vesta-HED connection; and the geologic context for eucrites, diogenites, and howardites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2090-2104.	1.6	185

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40	Neutron absorption constraints on the composition of 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2211-2236.	1.6	47
41	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.	3.6	11
42	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
43	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
44	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
45	Dark Halo Crater (Impact, Optical). , 2014, , 1-7.		0
46	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
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48	MAIN-BELT ASTEROIDS WITH <i>WISE</i>/NEOWISE: NEAR-INFRARED ALBEDOS. <i>Astrophysical Journal</i> , 2014, 791, 121.	4.5	86
49	Composition and mineralogy of dark material units on Vesta. <i>Icarus</i> , 2014, 240, 58-72.	2.5	41
50	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. <i>Icarus</i> , 2014, 240, 36-57.	2.5	52
51	Geomorphology and structural geology of Saturnalia Fossae and adjacent structures in the northern hemisphere of Vesta. <i>Icarus</i> , 2014, 244, 23-40.	2.5	27
52	Gravity field expansion in ellipsoidal harmonic and polyhedral internal representations applied to Vesta. <i>Icarus</i> , 2014, 240, 118-132.	2.5	48
53	Introduction: The geologic mapping of Vesta. <i>Icarus</i> , 2014, 244, 1-12.	2.5	43
54	In-flight calibration of the Dawn Framing Camera II: Flat fields and stray light correction. <i>Icarus</i> , 2014, 234, 99-108.	2.5	27
55	The first confirmation of V-type asteroids among the Mars crosser population. <i>Planetary and Space Science</i> , 2014, 92, 57-64.	1.7	7
56	The fate of magmas in planetesimals and the retention of primitive chondritic crusts. <i>Earth and Planetary Science Letters</i> , 2014, 390, 128-137.	4.4	48

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58	A deep crust-mantle boundary in the asteroid 4 Vesta. <i>Nature</i> , 2014, 511, 303-306.	27.8	54
59	Imprint of the Rheasilvia impact on Vesta - Geologic mapping of quadrangles Gegania and Lucaria. <i>Icarus</i> , 2014, 244, 60-73.	2.5	15
60	The chronostratigraphy of protoplanet Vesta. <i>Icarus</i> , 2014, 244, 158-165.	2.5	26
61	Rotationally resolved spectroscopy of asteroid pairs: No spectral variation suggests fission is followed by settling of dust. <i>Icarus</i> , 2014, 243, 222-235.	2.5	17
62	Harmonic and statistical analyses of the gravity and topography of Vesta. <i>Icarus</i> , 2014, 240, 161-173.	2.5	18
63	Detection of serpentine in exogenic carbonaceous chondrite material on Vesta from Dawn FC data. <i>Icarus</i> , 2014, 239, 222-237.	2.5	34
64	Chelyabinsk meteorite explains unusual spectral properties of Baptistina Asteroid Family. <i>Icarus</i> , 2014, 237, 116-130.	2.5	54
65	Asteroids. , 2014, , 365-415.		28
66	Icarus special issue: Dark and bright materials on Vesta. <i>Icarus</i> , 2014, 240, 1-2.	2.5	0
67	Efficient early global relaxation of asteroid Vesta. <i>Icarus</i> , 2014, 240, 133-145.	2.5	22
68	Crater depth-to-diameter distribution and surface properties of (4) Vesta. <i>Planetary and Space Science</i> , 2014, 103, 57-65.	1.7	41
69	Morphology and formation ages of mid-sized post-Rheasilvia craters - Geology of quadrangle Tuccia, Vesta. <i>Icarus</i> , 2014, 244, 133-157.	2.5	27
70	Geologic map of the northern hemisphere of Vesta based on Dawn Framing Camera (FC) images. <i>Icarus</i> , 2014, 244, 41-59.	2.5	29
71	The unique geomorphology and physical properties of the Vestalia Terra plateau. <i>Icarus</i> , 2014, 244, 89-103.	2.5	33
72	Physical characterization of Warm Spitzer-observed near-Earth objects. <i>Icarus</i> , 2014, 228, 217-246.	2.5	55
73	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , 2014, 244, 74-88.	2.5	36
74	Photometric behavior of spectral parameters in Vesta dark and bright regions as inferred by the Dawn VIR spectrometer. <i>Icarus</i> , 2014, 240, 20-35.	2.5	51

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75	Observations of "fresh" and weathered surfaces on asteroid pairs and their implications on the rotational-fission mechanism. <i>Icarus</i> , 2014, 233, 9-26.	2.5	38
76	Spectral analysis of the bright materials on the asteroid Vesta. <i>Icarus</i> , 2014, 240, 73-85.	2.5	26
77	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
78	Geologic mapping of Vesta. <i>Planetary and Space Science</i> , 2014, 103, 2-23.	1.7	55
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80	Unconsolidated boulders on the surface of Itokawa. <i>Planetary and Space Science</i> , 2014, 95, 94-102.	1.7	7
81	Small fresh impact craters on asteroid 4 Vesta: A compositional and geological fingerprint. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 771-797.	3.6	12
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85	Mineralogical analysis of the Oppia quadrangle of asteroid (4) Vesta: Evidence for occurrence of moderate-reflectance hydrated minerals. <i>Icarus</i> , 2015, 259, 129-149.	2.5	15
86	Near infrared spectroscopy of HED meteorites: Effects of viewing geometry and compositional variations. <i>Icarus</i> , 2015, 258, 384-401.	2.5	12
87	Mineralogic mapping of the Av-9 Numisia quadrangle of Vesta. <i>Icarus</i> , 2015, 259, 116-128.	2.5	6
88	Using HED meteorites to interpret neutron and gamma-ray data from asteroid 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1311-1337.	1.6	24
89	Sublimation in bright spots on (1) Ceres. <i>Nature</i> , 2015, 528, 237-240.	27.8	116
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97	The Sextilia-region on Asteroid 4Vesta " Stratigraphy and variegation. <i>Icarus</i> , 2015, 259, 162-180.	2.5	8
98	Exploring exogenic sources for the olivine on Asteroid (4) Vesta. <i>Icarus</i> , 2015, 258, 483-499.	2.5	33
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102	Composition of the northern regions of Vesta analyzed by the Dawn mission. <i>Icarus</i> , 2015, 259, 53-71.	2.5	25
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105	Geomorphological evidence for transient water flow on Vesta. <i>Earth and Planetary Science Letters</i> , 2015, 411, 151-163.	4.4	42
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107	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
108	Three-dimensional spectral analysis of compositional heterogeneity at Arruntia crater on (4) Vesta using Dawn FC. <i>Icarus</i> , 2016, 267, 344-363.	2.5	4
109	Global variations in regolith properties on asteroid Vesta from Dawn's low-altitude mapping orbit. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2366-2386.	1.6	11
110	Joint Anomaly Detection and Spectral Unmixing for Planetary Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6879-6894.	6.3	13

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111	FC colour images of dwarf planet Ceres reveal a complicated geological history. <i>Planetary and Space Science</i> , 2016, 134, 122-127.	1.7	42
112	Disk-resolved photometry of Vesta and Lutetia and comparison with other asteroids. <i>Icarus</i> , 2016, 267, 204-216.	2.5	11
113	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. <i>Icarus</i> , 2016, 272, 16-31.	2.5	9
114	Spectral parameters for Dawn FC color data: Carbonaceous chondrites and aqueous alteration products as potential cerean analog materials. <i>Icarus</i> , 2016, 265, 149-160.	2.5	5
115	The Dawn exploration of (4) Vesta as the "ground truth" to interpret asteroid polarimetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 248-262.	4.4	15
116	Advances in determining asteroid chemistries and mineralogies. <i>Chemie Der Erde</i> , 2016, 76, 181-195.	2.0	9
117	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. <i>Icarus</i> , 2016, 265, 161-174.	2.5	9
118	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. <i>Space Science Reviews</i> , 2017, 208, 49-64.	8.1	13
119	Igneous lithologies on asteroid (4) Vesta mapped using gamma-ray and neutron data. <i>Icarus</i> , 2017, 286, 35-45.	2.5	11
120	Evolution of Occator Crater on (1) Ceres. <i>Astronomical Journal</i> , 2017, 153, 112.	4.7	50
121	Resolved spectrophotometric properties of the Ceres surface from Dawn Framing Camera images. <i>Icarus</i> , 2017, 288, 201-225.	2.5	69
123	Investigating the Origin of the Asteroids and Early Findings on Vesta. , 2017, , .		0
124	Scientific Papers. , 2017, , 257-294.		0
125	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. <i>Geophysical Research Letters</i> , 2017, 44, 6570-6578.	4.0	48
126	Oxo Crater on (1) Ceres: Geological History and the Role of Water-ice. <i>Astronomical Journal</i> , 2017, 154, 84.	4.7	17
127	Spectral properties and geology of bright and dark material on dwarf planet Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1961-1982.	1.6	13
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132	Exploring the Possible Continuum Between Comets and Asteroids. , 2018, , 409-438.		3
133	Basalt or Not? Near-infrared Spectra, Surface Mineralogical Estimates, and Meteorite Analogs for 33 V-type Asteroids. <i>Astronomical Journal</i> , 2018, 156, 11.	4.7	20
134	Carbonaceous matter in the SariĖsek meteorite. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1495-1511.	1.6	8
135	Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 623, A6.	5.1	20
136	Absolute spectral modelling of asteroid (4) Vesta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1952-1956.	4.4	5
137	The physical properties of meteorites. <i>Planetary and Space Science</i> , 2019, 165, 148-178.	1.7	46
138	Occator crater in color at highest spatial resolution. <i>Icarus</i> , 2019, 320, 24-38.	2.5	22
139	HD 145263: Spectral Observations of Silica Debris Disk Formation via Extreme Space Weathering?. <i>Astrophysical Journal</i> , 2020, 894, 116.	4.5	10
140	Determination of Size, Albedo, and Thermal Inertia of 10 Vesta Family Asteroids with WISE/NEOWISE Observations. <i>Astronomical Journal</i> , 2020, 159, 264.	4.7	7
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144	Characterization of D-type Spectra Based on Hyperspectral Remote Sensing of the Lunar Surface. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	2
145	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
146	The surface of (4) Vesta in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , 2021, 653, A118.	5.1	1
147	The unique spectral and geomorphological characteristics of pitted impact deposits associated with Marcia crater on Vesta. <i>Icarus</i> , 2021, 369, 114633.	2.5	1

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150	Asteroids Close-Up: What We Have Learned from Twenty Years of Space Exploration. , 2013, , 1-33.		0
151	Dark Halo Crater (Impact, Optical). , 2015, , 522-526.		0
152	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. , 2016, , 49-64.		0
153	Brine residues and organics in the Urvara basin on Ceres. Nature Communications, 2022, 13, 927.	12.8	3
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155	The Surface Composition of Vesta. , 2022, , 81-104.		0
156	Geomorphology of Vesta. , 2022, , 67-80.		0
157	<i>Gaia</i>Data Release 3. Astronomy and Astrophysics, 2023, 674, A35.	5.1	16
158	Geology and colour of Kupalo crater on Ceres. Planetary and Space Science, 2022, 220, 105538.	1.7	1
159	Physical Characterization of 2015 JD <sub>1</sub> : A Possibly Inhomogeneous Near-Earth Asteroid. Planetary Science Journal, 2022, 3, 189.	3.6	2
160	The Spectral Properties of Pitted Impact Deposits on Vesta as Seen by the Dawn VIR Instrument. Planetary Science Journal, 2022, 3, 182.	3.6	0
161	Asteroids and Their Mathematical Methods. Mathematics, 2022, 10, 2897.	2.2	2
162	Derivation of 1.064 $\mu$ m normal albedos on the C-type asteroid Ryugu from laser pulse intensity measurement of the Hayabusa2 LIDAR. Earth, Planets and Space, 2022, 74, .	2.5	2
163	Dark ray craters on Ganymede: Impactor or endogenous origin. Icarus, 2023, 394, 115400.	2.5	0
164	Could near-Earth watery asteroid Ceres be a likely ocean world and habitable?. , 2023, , 523-544.		0
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