

# Carol A Raymond

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194  
papers

7,594  
citations

46  
h-index

80  
g-index

201  
ext. papers

8,449  
ext. citations

8.6  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
194	Concepts for the Future Exploration of Dwarf Planet Ceres—Habitability. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 41	2.9	3
193	Science Drivers for the Future Exploration of Ceres: From Solar System Evolution to Ocean World Science. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 64	2.9	0
192	Carbon and Organic Matter on Ceres <b>2022</b> , 121-133		
191	Geomorphology of Ceres <b>2022</b> , 143-158		
190	Origin and Dynamical Evolution of the Asteroid Belt <b>2022</b> , 227-249		0
189	The Psyche Topography and Geomorphology Investigation. <i>Space Science Reviews</i> , <b>2022</b> , 218, 1	7.5	0
188	Ceres—Surface Composition <b>2022</b> , 105-120		
187	Collisional Evolution of the Main Belt as Recorded by Vesta <b>2022</b> , 250-261		
186	Ammonia on Ceres <b>2022</b> , 134-142		
185	Geophysics of Vesta and Ceres <b>2022</b> , 173-196		
184	Remote Observations of the Main Belt <b>2022</b> , 3-25		
183	Geomorphology of Vesta <b>2022</b> , 67-80		
182	Isotopic Constraints on the Formation of the Main Belt <b>2022</b> , 212-226		
181	Ceres—Internal Evolution <b>2022</b> , 159-172		
180	Exploring Vesta and Ceres <b>2022</b> , 26-38		
179	A young age of formation of Rheasilvia basin on Vesta from floor deformation patterns and crater counts. <i>Meteoritics and Planetary Science</i> , <b>2022</b> , 57, 22-47	2.8	1
178	Distinguishing the Origin of Asteroid (16) Psyche.. <i>Space Science Reviews</i> , <b>2022</b> , 218, 17	7.5	1

177	Formation of Ejecta and Dust Pond Deposits on Asteroid Vesta. <i>Journal of Geophysical Research E: Planets</i> , <b>2021</b> , 126, e2021JE006873	4.1	
176	A Long-Lived Planetesimal Dynamo Powered by Core Crystallization. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091917	4.9	2
175	Influence of Volatiles on Mass Wasting Processes on Vesta and Ceres. <i>Journal of Geophysical Research E: Planets</i> , <b>2021</b> , 126, e2020JE006573	4.1	1
174	Compositional control on impact crater formation on mid-sized planetary bodies: Dawn at Ceres and Vesta, Cassini at Saturn. <i>Icarus</i> , <b>2021</b> , 359, 114343	3.8	12
173	The Brittle Boulders of Dwarf Planet Ceres. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 111	2.9	2
172	Replenishment of Near-Surface Water Ice by Impacts Into Ceres' Volatile-Rich Crust: Observations by Dawn's Gamma Ray and Neutron Detector. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094223	4.9	0
171	Feasibility of characterizing subsurface brines on Ceres by electromagnetic sounding. <i>Icarus</i> , <b>2021</b> , 362, 114424	3.8	3
170	The Boulder Population of Asteroid 4 Vesta: Size-Frequency Distribution and Survival Time. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2019EA000941	3.1	5
169	Thermal inertia of Occator's faculae on Ceres. <i>Planetary and Space Science</i> , <b>2021</b> , 205, 105285	2	
168	The unique spectral and geomorphological characteristics of pitted impact deposits associated with Marcia crater on Vesta. <i>Icarus</i> , <b>2021</b> , 369, 114633	3.8	0
167	Relict Ocean Worlds: Ceres. <i>Space Science Reviews</i> , <b>2020</b> , 216, 1	7.5	10
166	Ceres partial differentiation: undifferentiated crust mixing with a water-rich mantle. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 633, A117	5.1	12
165	Ceres observed at low phase angles by VIR-Dawn. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 634, A39	5.1	5
164	An endogenic origin of cerean organics. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 534, 116069	5.3	7
163	Fracture geometry and statistics of Ceres floor fractures. <i>Planetary and Space Science</i> , <b>2020</b> , 187, 104955	5.1	3
162	Organic Material on Ceres: Insights from Visible and Infrared Space Observations. <i>Life</i> , <b>2020</b> , 11,	3	4
161	The surface of (1) Ceres in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 642, A74	5.1	5
160	Ceres: Astrobiological Target and Possible Ocean World. <i>Astrobiology</i> , <b>2020</b> , 20, 269-291	3.7	27

159	The varied sources of faculae-forming brines in Ceres' Occator crater emplaced via hydrothermal brine effusion. <i>Nature Communications</i> , <b>2020</b> , 11, 3680	17.4	23
158	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. <i>Nature Communications</i> , <b>2020</b> , 11, 3679	17.4	13
157	Evidence of non-uniform crust of Ceres from Dawn's high-resolution gravity data. <i>Nature Astronomy</i> , <b>2020</b> , 4, 748-755	12.1	19
156	Fresh emplacement of hydrated sodium chloride on Ceres from ascending salty fluids. <i>Nature Astronomy</i> , <b>2020</b> , 4, 786-793	12.1	36
155	Recent cryovolcanic activity at Occator crater on Ceres. <i>Nature Astronomy</i> , <b>2020</b> , 4, 794-801	12.1	24
154	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. <i>Nature Astronomy</i> , <b>2020</b> , 4, 741-747	12.1	34
153	Post-impact cryo-hydrologic formation of small mounds and hills in Ceres' Occator crater. <i>Nature Geoscience</i> , <b>2020</b> , 13, 605-610	18.3	9
152	High Thermal Inertia Zones on Ceres From Dawn Data. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2018JE005733	4.1	7
151	Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. <i>Nature Geoscience</i> , <b>2019</b> , 12, 797-801	18.3	10
150	Spectrophotometric modeling and mapping of Ceres. <i>Icarus</i> , <b>2019</b> , 322, 144-167	3.8	18
149	Slurry extrusion on Ceres from a convective mud-bearing mantle. <i>Nature Geoscience</i> , <b>2019</b> , 12, 505-509	18.3	26
148	Fluidized Appearing Ejecta on Ceres: Implications for the Mechanical Properties, Frictional Properties, and Composition of its Shallow Subsurface. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 1819-1839	4.1	11
147	A Global Inventory of Ice-Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 1650-1689	4.1	26
146	Landslides on Ceres: Inferences Into Ice Content and Layering in the Upper Crust. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 1512	4.1	8
145	Spectral analysis of the Cerean geological unit crater central peak material as an indicator of subsurface mineral composition. <i>Icarus</i> , <b>2019</b> , 318, 75-98	3.8	4
144	Elemental composition and mineralogy of Vesta and Ceres: Distribution and origins of hydrogen-bearing species. <i>Icarus</i> , <b>2019</b> , 318, 42-55	3.8	28
143	A Possible Brine Reservoir Beneath Occator Crater: Thermal and Compositional Evolution and Formation of the Cerealia Dome and Vinalia Faculae. <i>Icarus</i> , <b>2019</b> , 320, 119-135	3.8	36
142	Tectonic analysis of fracturing associated with occator crater. <i>Icarus</i> , <b>2019</b> , 320, 49-59	3.8	14

141	The spectral parameter maps of Ceres from NASA/DAWN VIR data. <i>Icarus</i> , <b>2019</b> , 318, 14-21	3.8	7
140	The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: Morphology, comparisons and formation. <i>Icarus</i> , <b>2019</b> , 320, 159-187	3.8	22
139	The mineralogy of Ceres in Nawish quadrangle. <i>Icarus</i> , <b>2019</b> , 318, 195-204	3.8	1
138	Landslides on Ceres: Diversity and Geologic Context. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 3329-3343	4.1	10
137	Asymmetric Craters on the Dwarf Planet Ceres: Results of Second Extended Mission Data Analysis. <i>Geosciences (Switzerland)</i> , <b>2019</b> , 9, 475	2.7	1
136	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Ice-Exposing Impacts. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 61-75	4.1	15
135	Characteristics of organic matter on Ceres from VIR/Dawn high spatial resolution spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 482, 2407-2421	4.3	25
134	High-resolution shape model of Ceres from stereophotoclinometry using Dawn Imaging Data. <i>Icarus</i> , <b>2019</b> , 319, 812-827	3.8	34
133	The various ages of Occator crater, Ceres: Results of a comprehensive synthesis approach. <i>Icarus</i> , <b>2019</b> , 320, 60-82	3.8	31
132	An aqueously altered carbon-rich Ceres. <i>Nature Astronomy</i> , <b>2019</b> , 3, 140-145	12.1	48
131	Normal Faults on Ceres: Insights Into the Mechanical Properties and Thermal History of Nar Sulcus. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 80-88	4.9	5
130	Mineralogy mapping of the Ac-H-5 Fejokoo quadrangle of Ceres. <i>Icarus</i> , <b>2019</b> , 318, 147-169	3.8	1
129	Synthesis of the special issue: The formation and evolution of Ceres in Occator crater. <i>Icarus</i> , <b>2019</b> , 320, 213-225	3.8	14
128	Mineralogical analysis of the Ac-H-6 Haulani quadrangle of the dwarf planet Ceres. <i>Icarus</i> , <b>2019</b> , 318, 170-187	3.8	9
127	Ac-H-11 Sintana and Ac-H-12 Toharu quadrangles: Assessing the large and small scale heterogeneities of Ceres's surface. <i>Icarus</i> , <b>2019</b> , 318, 230-240	3.8	5
126	Mineralogical analysis of quadrangle Ac-H-10 Rongo on the dwarf planet Ceres. <i>Icarus</i> , <b>2019</b> , 318, 212-229	3.8	5
125	Mineralogy of the Occator quadrangle. <i>Icarus</i> , <b>2019</b> , 318, 205-211	3.8	7
124	Compositional differences among Bright Spots on the Ceres surface. <i>Icarus</i> , <b>2019</b> , 320, 202-212	3.8	26

123	Spectral investigation of quadrangle AC-H 3 of the dwarf planet Ceres – The region of impact crater Dantu. <i>Icarus</i> , <b>2019</b> , 318, 111-123	3.8	3
122	Mineralogical mapping of the Kerwan quadrangle on Ceres. <i>Icarus</i> , <b>2019</b> , 318, 188-194	3.8	5
121	Ceres – Impact craters – Relationships between surface composition and geology. <i>Icarus</i> , <b>2019</b> , 318, 56-74	3.8	6
120	The formation and evolution of bright spots on Ceres. <i>Icarus</i> , <b>2019</b> , 320, 188-201	3.8	37
119	Mineralogy of the Urvara – Alode region on Ceres. <i>Icarus</i> , <b>2019</b> , 318, 241-250	3.8	5
118	Bright carbonate surfaces on Ceres as remnants of salt-rich water fountains. <i>Icarus</i> , <b>2019</b> , 320, 39-48	3.8	33
117	Introduction to the special issue: The formation and evolution of Ceres – Occator crater. <i>Icarus</i> , <b>2019</b> , 320, 1-6	3.8	4
116	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. <i>Icarus</i> , <b>2019</b> , 320, 97-109	3.8	12
115	Mineralogy of Occator crater on Ceres and insight into its evolution from the properties of carbonates, phyllosilicates, and chlorides. <i>Icarus</i> , <b>2019</b> , 320, 83-96	3.8	44
114	Ceres – Occator crater and its faculae explored through geologic mapping. <i>Icarus</i> , <b>2019</b> , 320, 7-23	3.8	16
113	The surface composition of Ceres – Ezinu quadrangle analyzed by the Dawn mission. <i>Icarus</i> , <b>2019</b> , 318, 124-146	3.8	4
112	Exposed H <sub>2</sub> O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. <i>Icarus</i> , <b>2019</b> , 318, 22-41	3.8	38
111	Mineralogical mapping of Coniraya quadrangle of the dwarf planet Ceres. <i>Icarus</i> , <b>2019</b> , 318, 99-110	3.8	15
110	Global and local re-impact and velocity regime of ballistic ejecta of boulder craters on Ceres. <i>Planetary and Space Science</i> , <b>2018</b> , 153, 142-156	2	4
109	Mineralogy and temperature of crater Haulani on Ceres. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1902-1924	3.8	17
108	Ceres internal structure from geophysical constraints. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1999-2007	3.8	14
107	Morphological Indicators of a Mascon Beneath Ceres’s Largest Crater, Kerwan. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1297-1304	4.9	13
106	Geologic constraints on the origin of red organic-rich material on Ceres. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1983-1998	2.8	25

105	Nature, formation, and distribution of carbonates on Ceres. <i>Science Advances</i> , <b>2018</b> , 4, e1701645	14.3	62
104	Variations in the amount of water ice on Ceres' surface suggest a seasonal water cycle. <i>Science Advances</i> , <b>2018</b> , 4, eaao3757	14.3	37
103	The geology of the occator quadrangle of dwarf planet Ceres: Floor-fractured craters and other geomorphic evidence of cryomagmatism. <i>Icarus</i> , <b>2018</b> , 316, 128-139	3.8	20
102	Geologic mapping of the Ac-2 Coniraya quadrangle of Ceres from NASA's Dawn mission: Implications for a heterogeneously composed crust. <i>Icarus</i> , <b>2018</b> , 316, 28-45	3.8	13
101	Geology of Ceres' North Pole quadrangle with Dawn FC imaging data. <i>Icarus</i> , <b>2018</b> , 316, 14-27	3.8	3
100	Geologic mapping of the Urvara and Yalode Quadrangles of Ceres. <i>Icarus</i> , <b>2018</b> , 316, 167-190	3.8	18
99	The unique geomorphology and structural geology of the Haulani crater of dwarf planet Ceres as revealed by geological mapping of equatorial quadrangle Ac-6 Haulani. <i>Icarus</i> , <b>2018</b> , 316, 84-98	3.8	14
98	The Ac-5 (Fejokoo) quadrangle of Ceres: Geologic map and geomorphological evidence for ground ice mediated surface processes. <i>Icarus</i> , <b>2018</b> , 316, 63-83	3.8	15
97	Carbonaceous chondrites as analogs for the composition and alteration of Ceres. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1793-1804	2.8	43
96	The Ceres gravity field, spin pole, rotation period and orbit from the Dawn radiometric tracking and optical data. <i>Icarus</i> , <b>2018</b> , 299, 411-429	3.8	49
95	A Brief History of Spacecraft Missions to Asteroids and Protoplanets <b>2018</b> , 1-57		3
94	The geology of the Nawish quadrangle of Ceres: The rim of an ancient basin. <i>Icarus</i> , <b>2018</b> , 316, 114-127	3.8	3
93	Ceres's global and localized mineralogical composition determined by Dawn's Visible and Infrared Spectrometer (VIR). <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1844-1865	2.8	19
92	Ring-Mold Craters on Ceres: Evidence for Shallow Subsurface Water Ice Sources. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8121-8128	4.9	2
91	Geologic mapping of the Ac-11 Sintana quadrangle: Assessing diverse crater morphologies. <i>Icarus</i> , <b>2018</b> , 316, 154-166	3.8	3
90	Ceres' Ezinu quadrangle: a heavily cratered region with evidence for localized subsurface water ice and the context of Occator crater. <i>Icarus</i> , <b>2018</b> , 316, 46-62	3.8	16
89	The geology of the Kerwan quadrangle of dwarf planet Ceres: Investigating Ceres' oldest, largest impact basin. <i>Icarus</i> , <b>2018</b> , 316, 99-113	3.8	22
88	Ceres' spectral link to carbonaceous chondrites: Analysis of the dark background materials. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1925-1945	2.8	4

87	Dantu's mineralogical properties [A view into the composition of Ceres' crust. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1866-1883	2.8	7
86	Ceres [opposition effect observed by the Dawn framing camera. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 620, A201	5.1	9
85	Floor-Fractured Craters on Ceres and Implications for Interior Processes. <i>Journal of Geophysical Research E: Planets</i> , <b>2018</b> , 123, 3188-3204	4.1	11
84	Localized aliphatic organic material on the surface of Ceres. <i>Science</i> , <b>2017</b> , 355, 719-722	33.3	122
83	An investigation of the bluish material on Ceres. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1660	4.9	18
82	Geomorphological evidence for ground ice on dwarf planet Ceres. <i>Nature Geoscience</i> , <b>2017</b> , 10, 338-343	18.3	75
81	High-resolution Ceres Low Altitude Mapping Orbit Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , <b>2017</b> , 140, 74-79	2	24
80	Spectral analysis of Ahuna Mons from Dawn mission's visible-infrared spectrometer. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 97-104	4.9	46
79	Resolved spectrophotometric properties of the Ceres surface from Dawn Framing Camera images. <i>Icarus</i> , <b>2017</b> , 288, 201-225	3.8	64
78	The Dependence of the Cerean Exosphere on Solar Energetic Particle Events. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 838, L8	7.9	35
77	Spectrophotometric properties of dwarf planet Ceres from the VIR spectrometer on board the Dawn mission. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 598, A130	5.1	56
76	Ceres's obliquity history and its implications for the permanently shadowed regions. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2652-2661	4.9	27
75	Extensive water ice within Ceres' aqueously altered regolith: Evidence from nuclear spectroscopy. <i>Science</i> , <b>2017</b> , 355, 55-59	33.3	146
74	Evidence for the Interior Evolution of Ceres from Geologic Analysis of Fractures. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 9564-9572	4.9	25
73	Constraints on Ceres' Internal Structure and Evolution From Its Shape and Gravity Measured by the Dawn Spacecraft. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 2267-2293	4.1	94
72	The interior structure of Ceres as revealed by surface topography. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 476, 153-164	5.3	99
71	Conditions for Sublimating Water Ice to Supply Ceres' Exosphere. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 1984-1995	4.1	34
70	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 6570-6578	4.9	43



69	The Putative Cerean Exosphere. <i>Astrophysical Journal</i> , <b>2017</b> , 850, 85	4.7	16
68	THE FORMATION AND EVOLUTION OF BRIGHT SPOTS ON CERES <b>2017</b> ,		3
67	Detection of local H <sub>2</sub> O exposed at the surface of Ceres. <i>Science</i> , <b>2016</b> , 353,	33.3	118
66	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , <b>2016</b> , 353, 1008-1010	33.3	157
65	Distribution of phyllosilicates on the surface of Ceres. <i>Science</i> , <b>2016</b> , 353,	33.3	144
64	Cryovolcanism on Ceres. <i>Science</i> , <b>2016</b> , 353,	33.3	135
63	The geomorphology of Ceres. <i>Science</i> , <b>2016</b> , 353,	33.3	92
62	Cratering on Ceres: Implications for its crust and evolution. <i>Science</i> , <b>2016</b> , 353,	33.3	121
61	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. <i>Nature</i> , <b>2016</b> , 536, 54-7	50.4	198
60	Composition and structure of the shallow subsurface of Ceres revealed by crater morphology. <i>Nature Geoscience</i> , <b>2016</b> , 9, 538-542	18.3	100
59	Ceres Survey Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , <b>2016</b> , 121, 115-120	2	30
58	Timing of optical maturation of recently exposed material on Ceres. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,987-11,993	4.9	30
57	Cryogenic flow features on Ceres: Implications for crater-related cryovolcanism. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,994-12,003	4.9	44
56	The permanently shadowed regions of dwarf planet Ceres. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6783-6789	4.9	45
55	The missing large impact craters on Ceres. <i>Nature Communications</i> , <b>2016</b> , 7, 12257	17.4	73
54	The Coriolis effect on mass wasting during the Rheasilvia impact on asteroid Vesta. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 12,340	4.9	6
53	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 817, L22	7.9	36
52	High-resolution Ceres High Altitude Mapping Orbit atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , <b>2016</b> , 129, 103-107	2	45

51	Global variations in regolith properties on asteroid Vesta from Dawn's low-altitude mapping orbit. <i>Meteoritics and Planetary Science</i> , <b>2016</b> , 51, 2366-2386	2.8	8
50	A partially differentiated interior for (1) Ceres deduced from its gravity field and shape. <i>Nature</i> , <b>2016</b> , 537, 515-517	50.4	143
49	Mineralogical and spectral analysis of Vesta's Geganja and Lucaria quadrangles and comparative analysis of their key features. <i>Icarus</i> , <b>2015</b> , 259, 72-90	3.8	17
48	Spectral analysis of the quadrangles Av-13 and Av-14 on Vesta. <i>Icarus</i> , <b>2015</b> , 259, 181-193	3.8	9
47	Geomorphological evidence for transient water flow on Vesta. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 411, 151-163	5.3	36
46	Mineralogical analysis of the Oppia quadrangle of asteroid (4) Vesta: Evidence for occurrence of moderate-reflectance hydrated minerals. <i>Icarus</i> , <b>2015</b> , 259, 129-149	3.8	14
45	Sublimation in bright spots on (1) Ceres. <i>Nature</i> , <b>2015</b> , 528, 237-40	50.4	105
44	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. <i>Nature</i> , <b>2015</b> , 528, 241-450.4	226	
43	The chronostratigraphy of protoplanet Vesta. <i>Icarus</i> , <b>2014</b> , 244, 158-165	3.8	17
42	Harmonic and statistical analyses of the gravity and topography of Vesta. <i>Icarus</i> , <b>2014</b> , 240, 161-173	3.8	17
41	Detection of serpentine in exogenic carbonaceous chondrite material on Vesta from Dawn FC data. <i>Icarus</i> , <b>2014</b> , 239, 222-237	3.8	29
40	Morphology and formation ages of mid-sized post-Rheasilvia craters in Geology of quadrangle Tuccia, Vesta. <i>Icarus</i> , <b>2014</b> , 244, 133-157	3.8	27
39	Geologic map of the northern hemisphere of Vesta based on Dawn Framing Camera (FC) images. <i>Icarus</i> , <b>2014</b> , 244, 41-59	3.8	26
38	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , <b>2014</b> , 244, 74-88	3.8	34
37	Small crater populations on Vesta. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 96-103	2	46
36	Geologic mapping of Vesta. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 2-23	2	46
35	The Vesta gravity field, spin pole and rotation period, landmark positions, and ephemeris from the Dawn tracking and optical data. <i>Icarus</i> , <b>2014</b> , 240, 103-117	3.8	74
34	Constraints on Vesta's interior structure using gravity and shape models from the Dawn mission. <i>Icarus</i> , <b>2014</b> , 240, 146-160	3.8	46

33	Constraining the cratering chronology of Vesta. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 131-142	2	36
32	Lobate and flow-like features on asteroid Vesta. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 24-35	2	36
31	Mass movement on Vesta at steep scarps and crater rims. <i>Icarus</i> , <b>2014</b> , 244, 120-132	3.8	42
30	The cratering record, chronology and surface ages of (4) Vesta in comparison to smaller asteroids and the ages of HED meteorites. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 104-130	2	68
29	Vesta surface thermal properties map. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 1438-1443	4.9	38
28	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. <i>Icarus</i> , <b>2014</b> , 240, 36-57	3.8	49
27	Geomorphology and structural geology of Saturnalia Fossae and adjacent structures in the northern hemisphere of Vesta. <i>Icarus</i> , <b>2014</b> , 244, 23-40	3.8	20
26	The geological nature of dark material on Vesta and implications for the subsurface structure. <i>Icarus</i> , <b>2014</b> , 240, 3-19	3.8	24
25	Asymmetric craters on Vesta: Impact on sloping surfaces. <i>Planetary and Space Science</i> , <b>2014</b> , 103, 36-56	2	25
24	Resolved photometry of Vesta reveals physical properties of crater regolith. <i>Planetary and Space Science</i> , <b>2013</b> , 85, 198-213	2	54
23	High-resolution Vesta Low Altitude Mapping Orbit Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , <b>2013</b> , 85, 293-298	2	20
22	High-velocity collisions from the lunar cataclysm recorded in asteroidal meteorites. <i>Nature Geoscience</i> , <b>2013</b> , 6, 303-307	18.3	95
21	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , <b>2013</b> , 48, 2166-2184	2.8	72
20	Chondritic models of 4 Vesta: Implications for geochemical and geophysical properties. <i>Meteoritics and Planetary Science</i> , <b>2013</b> , 48, 2300-2315	2.8	55
19	Neutron absorption constraints on the composition of 4 Vesta. <i>Meteoritics and Planetary Science</i> , <b>2013</b> , 48, 2211-2236	2.8	44
18	Mass-wasting features and processes in Vesta's south polar basin Rheasilvia. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 2279-2294	4.1	24
17	High resolution Vesta High Altitude Mapping Orbit (HAMO) Atlas derived from Dawn framing camera images. <i>Planetary and Space Science</i> , <b>2012</b> , 73, 283-286	2	48
16	Elemental mapping by Dawn reveals exogenic H in Vesta's regolith. <i>Science</i> , <b>2012</b> , 338, 242-6	33.3	181

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