

Andreas Nathues

List of Publications by Year in descending order

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112
papers

5,433
citations

76326

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113
docs citations

113
times ranked

2216
citing authors

#	ARTICLE	IF	CITATIONS
1	Brine residues and organics in the Urvara basin on Ceres. <i>Nature Communications</i> , 2022, 13, 927.	12.8	3
2	Science Drivers for the Future Exploration of Ceres: From Solar System Evolution to Ocean World Science. <i>Planetary Science Journal</i> , 2022, 3, 64.	3.6	4
3	Geomorphology of Ceres. , 2022, , 143-158.		0
4	Geology and colour of Kupalo crater on Ceres. <i>Planetary and Space Science</i> , 2022, 220, 105538.	1.7	1
5	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. <i>Nature Communications</i> , 2020, 11, 3679.	12.8	19
6	Recent cryovolcanic activity at Occator crater on Ceres. <i>Nature Astronomy</i> , 2020, 4, 794-801.	10.1	32
7	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. <i>Nature Astronomy</i> , 2020, 4, 741-747.	10.1	50
8	Post-impact cryo-hydrologic formation of small mounds and hills in Ceres's Occator crater. <i>Nature Geoscience</i> , 2020, 13, 605-610.	12.9	15
9	Landslides on Ceres: Diversity and Geologic Context. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3329-3343.	3.6	14
10	Unique Light Scattering at Occator's Faculae on (1) Ceres. <i>Astronomical Journal</i> , 2019, 158, 85.	4.7	2
11	Spectrophotometric modeling and mapping of Ceres. <i>Icarus</i> , 2019, 322, 144-167.	2.5	21
12	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> , 2019, 124, 1650-1689.	3.6	33
13	High-resolution shape model of Ceres from stereophotoclinometry using Dawn Imaging Data. <i>Icarus</i> , 2019, 319, 812-827.	2.5	51
14	Synthesis of the special issue: The formation and evolution of Ceres's Occator crater. <i>Icarus</i> , 2019, 320, 213-225.	2.5	17
15	Mineralogical analysis of the Ac-H-6 Haulani quadrangle of the dwarf planet Ceres. <i>Icarus</i> , 2019, 318, 170-187.	2.5	11
16	Mineralogical analysis of quadrangle Ac-H-10 Rongo on the dwarf planet Ceres. <i>Icarus</i> , 2019, 318, 212-229.	2.5	8
17	The formation and evolution of bright spots on Ceres. <i>Icarus</i> , 2019, 320, 188-201.	2.5	47
18	Bright carbonate surfaces on Ceres as remnants of salt-rich water fountains. <i>Icarus</i> , 2019, 320, 39-48.	2.5	42

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19	Occator crater in color at highest spatial resolution. <i>Icarus</i> , 2019, 320, 24-38.	2.5	22
20	Exposed H ₂ O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. <i>Icarus</i> , 2019, 318, 22-41.	2.5	47
21	Mineralogy and temperature of crater Haulani on Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1902-1924.	1.6	21
22	Dawn mission's search for satellites of Ceres: Intact protoplanets don't have satellites. <i>Icarus</i> , 2018, 316, 191-204.	2.5	6
23	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
24	CASTAway: An asteroid main belt tour and survey. <i>Advances in Space Research</i> , 2018, 62, 1998-2025.	2.6	18
25	Geologic constraints on the origin of red organic-rich material on Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1983-1998.	1.6	34
26	The geology of the occator quadrangle of dwarf planet Ceres: Floor-fractured craters and other geomorphic evidence of cryomagmatism. <i>Icarus</i> , 2018, 316, 128-139.	2.5	26
27	Geologic mapping of the Ac-2 Coniraya quadrangle of Ceres from NASA's Dawn mission: Implications for a heterogeneously composed crust. <i>Icarus</i> , 2018, 316, 28-45.	2.5	20
28	Geology of Ceres's North Pole quadrangle with Dawn FC imaging data. <i>Icarus</i> , 2018, 316, 14-27.	2.5	6
29	Geological mapping of the Ac-10 Rongo Quadrangle of Ceres. <i>Icarus</i> , 2018, 316, 140-153.	2.5	16
30	The Ac-5 (Fejokoo) quadrangle of Ceres: Geologic map and geomorphological evidence for ground ice mediated surface processes. <i>Icarus</i> , 2018, 316, 63-83.	2.5	21
31	Ceres's Ezinu quadrangle: a heavily cratered region with evidence for localized subsurface water ice and the context of Occator crater. <i>Icarus</i> , 2018, 316, 46-62.	2.5	21
32	The geology of the Kerwan quadrangle of dwarf planet Ceres: Investigating Ceres's oldest, largest impact basin. <i>Icarus</i> , 2018, 316, 99-113.	2.5	28
33	Evolution of Occator Crater on (1) Ceres. <i>Astronomical Journal</i> , 2017, 153, 112.	4.7	50
34	Geomorphological evidence for ground ice on dwarf planet Ceres. <i>Nature Geoscience</i> , 2017, 10, 338-343.	12.9	83
35	Surface water-ice deposits in the northern shadowed regions of Ceres. <i>Nature Astronomy</i> , 2017, 1, .	10.1	70
36	Oxo Crater on (1) Ceres: Geological History and the Role of Water-ice. <i>Astronomical Journal</i> , 2017, 154, 84.	4.7	17

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37	HAZE AT OCCATOR CRATER ON DWARF PLANET CERES. <i>Astrophysical Journal Letters</i> , 2016, 833, L25.	8.3	23
38	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
39	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
40	A partially differentiated interior for (1) Ceres deduced from its gravity field and shape. <i>Nature</i> , 2016, 537, 515-517.	27.8	169
41	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , 2016, 353, 1008-1010.	12.6	178
42	Cryovolcanism on Ceres. <i>Science</i> , 2016, 353, .	12.6	164
43	The geomorphology of Ceres. <i>Science</i> , 2016, 353, .	12.6	109
44	Cratering on Ceres: Implications for its crust and evolution. <i>Science</i> , 2016, 353, .	12.6	135
45	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
46	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
47	Effects of viewing geometry, aggregation state, and particle size on reflectance spectra of the Murchison CM2 chondrite deconvolved to Dawn FC band passes. <i>Icarus</i> , 2016, 266, 235-248.	2.5	11
48	THE PHYSICAL CHARACTERIZATION OF THE POTENTIALLY HAZARDOUS ASTEROID 2004 BL86: A FRAGMENT OF A DIFFERENTIATED ASTEROID. <i>Astrophysical Journal</i> , 2015, 811, 65.	4.5	6
49	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
50	Near infrared spectroscopy of HED meteorites: Effects of viewing geometry and compositional variations. <i>Icarus</i> , 2015, 258, 384-401.	2.5	12
51	PHASE ANGLE EFFECTS ON 3 μm ABSORPTION BAND ON CERES: IMPLICATIONS FOR DAWN MISSION. <i>Astrophysical Journal Letters</i> , 2015, 804, L13.	8.3	7
52	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
53	Sublimation in bright spots on (1) Ceres. <i>Nature</i> , 2015, 528, 237-240.	27.8	116
54	Exogenic olivine on Vesta from Dawn Framing Camera color data. <i>Icarus</i> , 2015, 258, 467-482.	2.5	28

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55	Exploring exogenic sources for the olivine on Asteroid (4) Vesta. <i>Icarus</i> , 2015, 258, 483-499.	2.5	33
56	Vesta's Pinaria region: Original basaltic achondrite material derived from mixing upper and lower crust. <i>Icarus</i> , 2015, 259, 150-161.	2.5	4
57	Photometric properties of Ceres from telescopic observations using Dawn Framing Camera color filters. <i>Icarus</i> , 2015, 260, 332-345.	2.5	20
58	Olivine-rich exposures at Bellicia and Arruntia craters on (4) Vesta from Dawn Framing Camera data. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1831-1850.	1.6	20
59	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
60	Imprint of the Rheasilvia impact on Vesta - Geologic mapping of quadrangles Gegania and Lucaria. <i>Icarus</i> , 2014, 244, 60-73.	2.5	15
61	Detection of serpentine in exogenic carbonaceous chondrite material on Vesta from Dawn FC data. <i>Icarus</i> , 2014, 239, 222-237.	2.5	34
62	Crater depth-to-diameter distribution and surface properties of (4) Vesta. <i>Planetary and Space Science</i> , 2014, 103, 57-65.	1.7	41
63	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
64	Spectral diversity and photometric behavior of main-belt and near-Earth asteroids and (4) Vesta: A study in preparation for the Dawn encounter. <i>Icarus</i> , 2014, 235, 60-74.	2.5	19
65	The unique geomorphology and physical properties of the Vestalia Terra plateau. <i>Icarus</i> , 2014, 244, 89-103.	2.5	33
66	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
67	Spectral analysis of the bright materials on the asteroid Vesta. <i>Icarus</i> , 2014, 240, 73-85.	2.5	26
68	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> , 2014, 103, 104-130.	1.7	80
69	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	2.5	68
70	Stray light calibration of the Dawn Framing Camera. <i>Proceedings of SPIE</i> , 2013, , .	0.8	6
71	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	2.5	37
72	Olivine or impact melt: Nature of the "Orange" material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	2.5	47

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73	The 2.5–5.1 μ m reflectance spectra of HED meteorites and their constituent minerals: Implications for Dawn. <i>Icarus</i> , 2013, 225, 581-601.	2.5	8
74	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
75	In-flight calibration of the Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1304-1317.	2.5	36
76	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
77	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	1.6	54
78	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
79	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
80	Photometric Properties of Vesta. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 179-179.	0.0	2
81	Distinctive space weathering on Vesta from regolith mixing processes. <i>Nature</i> , 2012, 491, 79-82.	27.8	120
82	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
83	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
84	Delivery of dark material to Vesta via carbonaceous chondritic impacts. <i>Icarus</i> , 2012, 221, 544-559.	2.5	152
85	Dawn at Vesta: Testing the Protoplanetary Paradigm. <i>Science</i> , 2012, 336, 684-686.	12.6	422
86	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	12.6	222
87	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	12.6	240
88	Color and Albedo Heterogeneity of Vesta from Dawn. <i>Science</i> , 2012, 336, 700-704.	12.6	166
89	MarcoPolo-R near earth asteroid sample return mission. <i>Experimental Astronomy</i> , 2012, 33, 645-684.	3.7	72
90	Photometric, spectral phase and temperature effects on 4 Vesta and HED meteorites: Implications for the Dawn mission. <i>Icarus</i> , 2012, 217, 153-168.	2.5	76

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91	Phase reddening on near-Earth asteroids: Implications for mineralogical analysis, space weathering and taxonomic classification. <i>Icarus</i> , 2012, 220, 36-50.	2.5	150
92	Lunar iron abundance determination using the 2-1/4m absorption band parameters. <i>Icarus</i> , 2012, 220, 51-64.	2.5	23
93	How to characterize terrains on 4 Vesta using Dawn Framing Camera color bands?. <i>Icarus</i> , 2011, 216, 376-386.	2.5	28
94	The Dawn Framing Camera. <i>Space Science Reviews</i> , 2011, 163, 263-327.	8.1	248
95	First fragment of Asteroid 4 Vesta's mantle detected. <i>Icarus</i> , 2011, 212, 175-179.	2.5	26
96	An in-depth look at the lunar crater Copernicus: Exposed mineralogy by high-resolution near-infrared spectroscopy. <i>Icarus</i> , 2011, 213, 43-63.	2.5	16
97	Mineralogical characterization of potential targets for the ASTEX mission scenario. <i>Planetary and Space Science</i> , 2011, 59, 772-778.	1.7	20
98	ASTEX: An in situ exploration mission to two near-Earth asteroids. <i>Advances in Space Research</i> , 2010, 45, 169-182.	2.6	6
99	Spectral study of the Eunomia asteroid family Part II: The small bodies. <i>Icarus</i> , 2010, 208, 252-275.	2.5	23
100	Compositional heterogeneity of Asteroid 4 Vesta's southern hemisphere: Implications for the Dawn mission. <i>Icarus</i> , 2010, 210, 693-706.	2.5	48
101	Development of an Embedded CPU-Based Instrument Control Unit for the SIR-2 Instrument Onboard the Chandrayaan-1 Mission to the Moon. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2836-2846.	6.3	0
102	Exploring the asteroid belt with ion propulsion: Dawn mission history, status and plans. <i>Advances in Space Research</i> , 2007, 40, 193-201.	2.6	32
103	SMART-1 mission to the Moon: Status, first results and goals. <i>Advances in Space Research</i> , 2006, 37, 6-13.	2.6	84
104	Spectral study of the Eunomia asteroid family. <i>Icarus</i> , 2005, 175, 452-463.	2.5	30
105	SMART-1 after lunar capture: First results and perspectives. <i>Journal of Earth System Science</i> , 2005, 114, 689-697.	1.3	9
106	Photometry and models of eight near-Earth asteroids. <i>Icarus</i> , 2004, 167, 178-196.	2.5	49
107	Scientific objectives and selection of targets for the SMART-1 Infrared Spectrometer (SIR). <i>Planetary and Space Science</i> , 2004, 52, 1261-1285.	1.7	15
108	SMART-1 mission to the moon: Technology and science goals. <i>Advances in Space Research</i> , 2003, 31, 2323-2333.	2.6	33

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109	A Study of Cybele Asteroids I. Spin Properties of Ten Asteroids. Icarus, 2001, 149, 190-197.	2.5	4
110	Photometric observations and modelling of the asteroid 85 Io in conjunction with data from an occultation event during the 1995â€“96 apparition fn2 fn2Partly based on observations collected at the European Southern Observatory, La Silla, Chile.. Planetary and Space Science, 1999, 47, 327-330.	1.7	4
111	Rotational properties of main belt asteroids: photoelectric and CCD observations of 15 objects. Planetary and Space Science, 1997, 45, 1423-1435.	1.7	5
112	GAUSS - genesis of asteroids and evolution of the solar system. Experimental Astronomy, 0, , 1.	3.7	5