

Stefan E Schröder

List of Publications by Year in descending order

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77
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citations

126907

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docs citations

82
times ranked

2325
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#	ARTICLE	IF	CITATIONS
1	The Boulder Population of Asteroid 4 Vesta: Size-Frequency Distribution and Survival Time. <i>Earth and Space Science</i> , 2021, 8, e2019EA000941.	2.6	17
2	Dwarf planet (1) Ceres surface bluing due to high porosity resulting from sublimation. <i>Nature Communications</i> , 2021, 12, 274.	12.8	10
3	Spectrophotometric Analysis of the Ryugu Rock Seen by MASCOT: Searching for a Carbonaceous Chondrite Analog. <i>Planetary Science Journal</i> , 2021, 2, 58.	3.6	7
4	Compositional control on impact crater formation on mid-sized planetary bodies: Dawn at Ceres and Vesta, Cassini at Saturn. <i>Icarus</i> , 2021, 359, 114343.	2.5	14
5	The MASCOT lander aboard Hayabusa2: The in-situ exploration of NEA (162173) Ryugu. <i>Planetary and Space Science</i> , 2021, 200, 105200.	1.7	18
6	The Brittle Boulders of Dwarf Planet Ceres. <i>Planetary Science Journal</i> , 2021, 2, 111.	3.6	10
7	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. <i>Planetary Science Journal</i> , 2021, 2, 178.	3.6	3
8	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
9	Spectral and Petrographic Properties of Inclusions in Carbonaceous Chondrites and Comparison with In Situ Images from Asteroid Ryugu. <i>Planetary Science Journal</i> , 2021, 2, 188.	3.6	4
10	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
11	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
12	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
13	VIS-IR Spectroscopy of Mixtures of Water Ice, Organic Matter, and Opaque Mineral in Support of Small Body Remote Sensing Observations. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1222.	2.0	4
14	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
15	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
16	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumov-Gerasimenko inferred from in situ observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3178-3193.	4.4	11
17	Spatial and Temporal Variability of the 365-nm Albedo of Venus Observed by the Camera on Board Venus Express. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006271.	3.6	4
18	Ceres observed at low phase angles by VIR-Dawn. <i>Astronomy and Astrophysics</i> , 2020, 634, A39.	5.1	8

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19	The surface of (1) Ceres in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , 2020, 642, A74.	5.1	8
20	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	10.1	124
21	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
22	Spectrophotometric modeling and mapping of Ceres. <i>Icarus</i> , 2019, 322, 144-167.	2.5	21
23	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
24	The Hayabusa2 lander MASCOT on the surface of asteroid (162173) Ryugu – Stereo-photogrammetric analysis of MASCam image data. <i>Astronomy and Astrophysics</i> , 2019, 632, L5.	5.1	14
25	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. <i>Icarus</i> , 2019, 320, 97-109.	2.5	17
26	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
27	Global and local re-impact and velocity regime of ballistic ejecta of boulder craters on Ceres. <i>Planetary and Space Science</i> , 2018, 153, 142-156.	1.7	6
28	Dawn mission's search for satellites of Ceres: Intact protoplanets don't have satellites. <i>Icarus</i> , 2018, 316, 191-204.	2.5	6
29	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
30	Ceres's spectral link to carbonaceous chondrites – Analysis of the dark background materials. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1925-1945.	1.6	6
31	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	39
32	Ceres's opposition effect observed by the Dawn framing camera. <i>Astronomy and Astrophysics</i> , 2018, 620, A201.	5.1	9
33	Resolved spectrophotometric properties of the Ceres surface from Dawn Framing Camera images. <i>Icarus</i> , 2017, 288, 201-225.	2.5	69
34	Spectrophotometric properties of dwarf planet Ceres from the VIR spectrometer on board the Dawn mission. <i>Astronomy and Astrophysics</i> , 2017, 598, A130.	5.1	69
35	Ceres's obliquity history and its implications for the permanently shadowed regions. <i>Geophysical Research Letters</i> , 2017, 44, 2652-2661.	4.0	29
36	Close-up images of the final Philae landing site on comet 67P/Churyumov-Gerasimenko acquired by the ROLIS camera. <i>Icarus</i> , 2017, 285, 263-274.	2.5	19

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37	Surface water-ice deposits in the northern shadowed regions of Ceres. <i>Nature Astronomy</i> , 2017, 1, .	10.1	70
38	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371.	4.4	111
39	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. <i>Space Science Reviews</i> , 2017, 208, 375-400.	8.1	46
40	Cryogenic flow features on Ceres: Implications for craterâ€“related cryovolcanism. <i>Geophysical Research Letters</i> , 2016, 43, 11,994.	4.0	48
41	The permanently shadowed regions of dwarf planet Ceres. <i>Geophysical Research Letters</i> , 2016, 43, 6783-6789.	4.0	52
42	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
43	The Dawn exploration of (4) Vesta as the â€“ground truthâ€™ to interpret asteroid polarimetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 248-262.	4.4	15
44	The DISR imaging mosaic of Titanâ€™s surface and its dependence on emission angle. <i>Icarus</i> , 2016, 270, 307-325.	2.5	10
45	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. <i>Icarus</i> , 2016, 265, 161-174.	2.5	9
46	Eight-color maps of Titanâ€™s surface from spectroscopy with Huygensâ€™ DISR. <i>Icarus</i> , 2016, 270, 260-271.	2.5	15
47	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	5.1	173
48	Vestaâ€™s missing moons: Comprehensive search for natural satellites of Vesta by the Dawn spacecraft. <i>Icarus</i> , 2015, 257, 207-216.	2.5	9
49	Long-term variations of the UV contrast on Venus observed by the Venus Monitoring Camera on board Venus Express. <i>Icarus</i> , 2015, 253, 1-15.	2.5	36
50	The structure of the regolith on 67P/Churyumov-Gerasimenko from ROLIS descent imaging. <i>Science</i> , 2015, 349, aab0232.	12.6	86
51	Variegation and space weathering on asteroid 21 Lutetia. <i>Planetary and Space Science</i> , 2015, 117, 236-245.	1.7	4
52	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
53	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
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

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55	Reprint of: Resolved photometry of Vesta reveals physical properties of crater regolith. Planetary and Space Science, 2014, 103, 66-81.	1.7	14
56	Spectral diversity and photometric behavior of main-belt and near-Earth vestoids and (4) Vesta: A study in preparation for the Dawn encounter. Icarus, 2014, 235, 60-74.	2.5	19
57	Photometric behavior of spectral parameters in Vesta dark and bright regions as inferred by the Dawn VIR spectrometer. Icarus, 2014, 240, 20-35.	2.5	51
58	Spectral analysis of the bright materials on the asteroid Vesta. Icarus, 2014, 240, 73-85.	2.5	26
59	Laboratory observations and simulations of phase reddening. Icarus, 2014, 239, 201-216.	2.5	69
60	Vesta surface thermal properties map. Geophysical Research Letters, 2014, 41, 1438-1443.	4.0	46
61	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. Icarus, 2013, 226, 1252-1274.	2.5	68
62	Resolved photometry of Vesta reveals physical properties of crater regolith. Planetary and Space Science, 2013, 85, 198-213.	1.7	59
63	In-flight calibration of the Dawn Framing Camera. Icarus, 2013, 226, 1304-1317.	2.5	36
64	Dark material on Vesta from the infall of carbonaceous volatile-rich material. Nature, 2012, 491, 83-86.	27.8	151
65	Bouncing on Titan: Motion of the Huygens probe in the seconds after landing. Planetary and Space Science, 2012, 73, 327-340.	1.7	21
66	Color and Albedo Heterogeneity of Vesta from Dawn. Science, 2012, 336, 700-704.	12.6	166
67	The reflectivity spectrum and opposition effect of Titan's surface observed by Huygens' DISR spectrometers. Planetary and Space Science, 2012, 60, 342-355.	1.7	14
68	The Dawn Framing Camera. Space Science Reviews, 2011, 163, 263-327.	8.1	248
69	The Dawn Framing Camera. , 2011, , 263-327.		10
70	Evidence for surface variegation in Rosetta OSIRIS images of asteroid 2867 Åteins. Planetary and Space Science, 2010, 58, 1107-1115.	1.7	12
71	E-Type Asteroid (2867) Steins as Imaged by OSIRIS on Board Rosetta. Science, 2010, 327, 190-193.	12.6	120
72	The unusual phase curve of Titan's surface observed by Huygensâ€™ Descent Imager/Spectral Radiometer. Planetary and Space Science, 2009, 57, 1963-1974.	1.7	9

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73	The reflectance spectrum of Titan's surface at the Huygens landing site determined by the descent imager/spectral radiometer. <i>Planetary and Space Science</i> , 2008, 56, 753-769.	1.7	37
74	The properties of Titan's surface at the Huygens landing site from DISR observations. <i>Planetary and Space Science</i> , 2008, 56, 728-752.	1.7	41
75	DISR imaging and the geometry of the descent of the Huygens probe within Titan's atmosphere. <i>Planetary and Space Science</i> , 2007, 55, 1896-1935.	1.7	70
76	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
77	On the Hipparcos parallaxes of O stars. <i>Astronomy and Astrophysics</i> , 2004, 428, 149-157.	5.1	28