

Stefan E Schröder

List of Publications by Year in descending order

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77
papers

3,801
citations

126907

33
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61
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82
all docs

82
docs citations

82
times ranked

2325
citing authors

#	ARTICLE	IF	CITATIONS
1	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
3	The Dawn Framing Camera. <i>Space Science Reviews</i> , 2011, 163, 263-327.	8.1	248
4	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	5.1	173
5	Color and Albedo Heterogeneity of Vesta from Dawn. <i>Science</i> , 2012, 336, 700-704.	12.6	166
6	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
7	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
8	E-Type Asteroid (2867) Steins as Imaged by OSIRIS on Board Rosetta. <i>Science</i> , 2010, 327, 190-193.	12.6	120
9	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
10	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
11	The structure of the regolith on 67P/Churyumov-Gerasimenko from ROLIS descent imaging. <i>Science</i> , 2015, 349, aab0232.	12.6	86
12	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
13	Surface water-ice deposits in the northern shadowed regions of Ceres. <i>Nature Astronomy</i> , 2017, 1, .	10.1	70
14	Laboratory observations and simulations of phase reddening. <i>Icarus</i> , 2014, 239, 201-216.	2.5	69
15	Resolved spectrophotometric properties of the Ceres surface from Dawn Framing Camera images. <i>Icarus</i> , 2017, 288, 201-225.	2.5	69
16	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
17	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	2.5	68
18	Resolved photometry of Vesta reveals physical properties of crater regolith. <i>Planetary and Space Science</i> , 2013, 85, 198-213.	1.7	59

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19	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
20	The permanently shadowed regions of dwarf planet Ceres. <i>Geophysical Research Letters</i> , 2016, 43, 6783-6789.	4.0	52
21	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
22	Cryogenic flow features on Ceres: Implications for crater-related cryovolcanism. <i>Geophysical Research Letters</i> , 2016, 43, 11,994.	4.0	48
23	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
24	Vesta surface thermal properties map. <i>Geophysical Research Letters</i> , 2014, 41, 1438-1443.	4.0	46
25	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. <i>Space Science Reviews</i> , 2017, 208, 375-400.	8.1	46
26	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
27	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
28	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	39
29	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
30	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
31	In-flight calibration of the Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1304-1317.	2.5	36
32	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
33	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
34	Ceres's obliquity history and its implications for the permanently shadowed regions. <i>Geophysical Research Letters</i> , 2017, 44, 2652-2661.	4.0	29
35	On the Hipparcos parallaxes of O stars. <i>Astronomy and Astrophysics</i> , 2004, 428, 149-157.	5.1	28
36	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

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37	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
38	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
39	Spectral analysis of the bright materials on the asteroid Vesta. <i>Icarus</i> , 2014, 240, 73-85.	2.5	26
40	Bouncing on Titan: Motion of the Huygens probe in the seconds after landing. <i>Planetary and Space Science</i> , 2012, 73, 327-340.	1.7	21
41	Spectrophotometric modeling and mapping of Ceres. <i>Icarus</i> , 2019, 322, 144-167.	2.5	21
42	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
43	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
44	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
45	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. <i>Icarus</i> , 2019, 320, 97-109.	2.5	17
46	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
47	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
48	Eight-color maps of Titan's surface from spectroscopy with Huygens' DISR. <i>Icarus</i> , 2016, 270, 260-271.	2.5	15
49	The reflectivity spectrum and opposition effect of Titan's surface observed by Huygens' DISR spectrometers. <i>Planetary and Space Science</i> , 2012, 60, 342-355.	1.7	14
50	Reprint of: Resolved photometry of Vesta reveals physical properties of crater regolith. <i>Planetary and Space Science</i> , 2014, 103, 66-81.	1.7	14
51	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
52	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
53	Evidence for surface variegation in Rosetta OSIRIS images of asteroid 2867 Åteins. <i>Planetary and Space Science</i> , 2010, 58, 1107-1115.	1.7	12
54	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12

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55	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumovâ€™Gerasimenko inferred from <i>in situ</i> observations. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3178-3193.	4.4	11
56	The DISR imaging mosaic of Titanâ€™s surface and its dependence on emission angle. Icarus, 2016, 270, 307-325.	2.5	10
57	Dwarf planet (1) Ceres surface bluing due to high porosity resulting from sublimation. Nature Communications, 2021, 12, 274.	12.8	10
58	The Brittle Boulders of Dwarf Planet Ceres. Planetary Science Journal, 2021, 2, 111.	3.6	10
59	The Dawn Framing Camera. , 2011, , 263-327.		10
60	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
61	Vestaâ€™s missing moons: Comprehensive search for natural satellites of Vesta by the Dawn spacecraft. Icarus, 2015, 257, 207-216.	2.5	9
62	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. Icarus, 2016, 265, 161-174.	2.5	9
63	Ceresâ€™ opposition effect observed by the Dawn framing camera. Astronomy and Astrophysics, 2018, 620, A201.	5.1	9
64	Ceres observed at low phase angles by VIR-Dawn. Astronomy and Astrophysics, 2020, 634, A39.	5.1	8
65	The surface of (1) Ceres in visible light as seen by Dawn/VIR. Astronomy and Astrophysics, 2020, 642, A74.	5.1	8
66	Spectrophotometric Analysis of the Ryugu Rock Seen by MASCOT: Searching for a Carbonaceous Chondrite Analog. Planetary Science Journal, 2021, 2, 58.	3.6	7
67	Global and local re-impact and velocity regime of ballistic ejecta of boulder craters on Ceres. Planetary and Space Science, 2018, 153, 142-156.	1.7	6
68	Dawn mission's search for satellites of Ceres: Intact protoplanets don't have satellites. Icarus, 2018, 316, 191-204.	2.5	6
69	Ceresâ€™ spectral link to carbonaceous chondritesâ€™ Analysis of the dark background materials. Meteoritics and Planetary Science, 2018, 53, 1925-1945.	1.6	6
70	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. Icarus, 2021, 369, 114591.	2.5	5
71	Variegation and space weathering on asteroid 21 Lutetia. Planetary and Space Science, 2015, 117, 236-245.	1.7	4
72	Spatial and Temporal Variability of the 365â€nm Albedo of Venus Observed by the Camera on Board Venus Express. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006271.	3.6	4

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73	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
74	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
75	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. <i>Planetary Science Journal</i> , 2021, 2, 178.	3.6	3
76	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
77	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