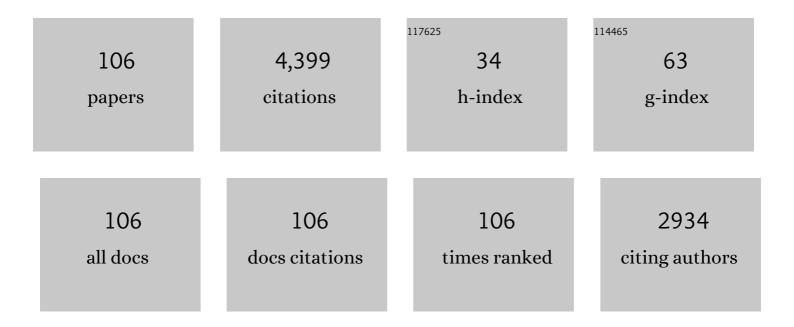
Faith Vilas

List of Publications by Year in descending order

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Ελιτή Μιλο

#	Article	IF	CITATIONS
1	Detection and discrimination of sulfate minerals using reflectance spectroscopy. Icarus, 2006, 184, 121-157.	2.5	317
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	12.6	313
3	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. Science, 2019, 364, 272-275.	12.6	262
4	Phyllosilicate Absorption Features in Main-Belt and Outer-Belt Asteroid Reflectance Spectra. Science, 1989, 246, 790-792.	12.6	185
5	Deep Impact: Observations from a Worldwide Earth-Based Campaign. Science, 2005, 310, 265-269.	12.6	182
6	A Cheaper, Faster, Better Way to Detect Water of Hydration on Solar System Bodies. Icarus, 1994, 111, 456-467.	2.5	154
7	Near-Infrared Spectral Results of Asteroid Itokawa from the Hayabusa Spacecraft. Science, 2006, 312, 1334-1338.	12.6	147
8	Hydrated Minerals on Asteroids:. , 2002, , 235-254.		143
9	Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. Space Science Reviews, 2014, 181, 121-214.	8.1	108
10	Iron Alteration Minerals in the Visible and Near-Infrared Spectra of Low-Albedo Asteroids. Icarus, 1994, 109, 274-283.	2.5	99
11	Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. Icarus, 2015, 254, 287-305.	2.5	95
12	Spectroscopic Observations of Mercury's Surface Reflectance During MESSENGER's First Mercury Flyby. Science, 2008, 321, 62-65.	12.6	94
13	Occultation detection of a neptunian ring-like arc. Nature, 1986, 319, 636-640.	27.8	86
14	Mercury: Absence of crystalline Fe2+ in the regolith. Icarus, 1985, 64, 133-138.	2.5	85
15	The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. Icarus, 2014, 228, 364-374.	2.5	82
16	SPECTRAL CHARACTERISTICS OF HAYABUSA 2 NEAR-EARTH ASTEROID TARGETS 162173 1999 JU3 AND 2001 QC34. Astronomical Journal, 2008, 135, 1101-1105.	4.7	81
17	Reflectance spectrophotometry (â^¼0.5–1.0 μm) of outer-belt asteroids: Implications for primitive, organic solar system material. Icarus, 1985, 64, 503-516.	2.5	68
18	Spectral absorptions on Phobos and Deimos in the visible/near infrared wavelengths and their compositional constraints. Icarus, 2014, 229, 196-205.	2.5	66

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19	METHANE AND NITROGEN ABUNDANCES ON PLUTO AND ERIS. Astrophysical Journal, 2010, 725, 1296-1305.	4.5	63
20	The Effects of Space Weathering at UV Wavelengths: S-Class Asteroids. Astronomical Journal, 2006, 132, 1396-1404.	4.7	60
21	CCD reflectance spectra of selected asteroids. Icarus, 1992, 100, 85-94.	2.5	57
22	Ferric Iron in Primitive Asteroids: A 0.43-μm Absorption Feature. Icarus, 1993, 102, 225-231.	2.5	53
23	The dependence of reflectance spectra of Mercury on surface terrain. Icarus, 1984, 59, 60-68.	2.5	52
24	CCD Reflectance Spectra of Selected Asteroids. II. Low-Albedo Asteroid Spectra and Data Extraction Techniques. Icarus, 1993, 105, 67-78.	2.5	51
25	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. Geophysical Research Letters, 2019, 46, 2417-2424.	4.0	49
26	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	10.1	47
27	Mercury: Spectral reflectance measurements (0.33–1.06 μm) 1974/1975. Icarus, 1976, 28, 593-599.	2.5	46
28	Vesta and the Vestoids: A New Rock Group?. Icarus, 2000, 147, 119-128.	2.5	46
29	Mineralogical indicators of Mercury's hollows composition in MESSENGER color observations. Geophysical Research Letters, 2016, 43, 1450-1456.	4.0	42
30	Are Hyperion and Phoebe Linked to Iapetus?. Icarus, 2000, 146, 125-132.	2.5	41
31	Evidence of N2-ice on the surface of the icy dwarf Planet 136472 (2005 FY9). Icarus, 2008, 195, 844-850.	2.5	40
32	Optical Spectroscopy of the Large Kuiper Belt Objects 136472 (2005 FY9) and 136108 (2003 EL61). Astronomical Journal, 2007, 133, 526-530.	4.7	39
33	Global photometric properties of (162173) Ryugu. Astronomy and Astrophysics, 2020, 639, A83.	5.1	37
34	Ceres: Sulfur deposits and graphitized carbon. Geophysical Research Letters, 2016, 43, 8920-8927.	4.0	36
35	Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. Icarus, 2010, 209, 101-124.	2.5	35
36	Discovery and Analysis of Minor Absorption Bands in S-Asteroid Visible Reflectance Spectra. Icarus, 1996, 119, 202-208.	2.5	34

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37	Unraveling the Zebra: Clues to the lapetus Dark Material Composition. Icarus, 1996, 124, 262-267.	2.5	34
38	Quantified mineralogical evidence for a common origin of 1929 Kollaa with 4 Vesta and the HED meteorites. Icarus, 2003, 165, 215-218.	2.5	34
39	Multi-wavelength observations of Asteroid 2100 Ra-Shalom. Icarus, 2008, 193, 20-38.	2.5	34
40	Are Low-Albedo Asteroids Thermally Metamorphosed?. Icarus, 1996, 124, 483-489.	2.5	33
41	The Changing Spectrum of Vesta: Rotationally Resolved Spectroscopy of Pyroxene on the Surface. Icarus, 1998, 134, 207-212.	2.5	33
42	Near-infrared spectrophotometry of Asteroid 25143 Itokawa from NIRS on the Hayabusa spacecraft. Icarus, 2008, 194, 137-145.	2.5	33
43	Physical characteristics of Hayabusa target Asteroid 25143 Itokawa. Icarus, 2005, 173, 153-165.	2.5	32
44	Exploring the asteroid belt with ion propulsion: Dawn mission history, status and plans. Advances in Space Research, 2007, 40, 193-201.	2.6	32
45	Oblateness, radius, and mean stratospheric temperature of Neptune from the 1985 August 20 occultation. Icarus, 1987, 72, 635-646.	2.5	31
46	The Fate of Amino Acids During Simulated Meteoritic Impact. Astrobiology, 2009, 9, 943-951.	3.0	29
47	Occultation determination of Neptune's oblateness and stratospheric methane mixing ratio. Nature, 1986, 324, 227-231.	27.8	28
48	JVI Himalia: New Compositional Evidence and Interpretations for the Origin of Jupiter's Small Satellites. Icarus, 2000, 145, 445-453.	2.5	27
49	Results from observations of the 15 June 1983 occultation by the Neptune system. Astronomical Journal, 1985, 90, 655.	4.7	27
50	Mercurian Impact Craters: Implications for Polar Ground Ice. Icarus, 1999, 141, 194-204.	2.5	25
51	Mineralogical composition of (25143) Itokawa 1998 SF ₃₆ from visible and nearâ€infrared reflectance spectroscopy: Evidence for partial melting. Meteoritics and Planetary Science, 2007, 42, 2165-2177.	1.6	25
52	The mystery of 506.5 nm feature of reflectance spectra of Vesta and Vestoids: Evidence for space weathering?. Earth, Planets and Space, 2001, 53, 1071-1075.	2.5	24
53	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. Nature Communications, 2021, 12, 5837.	12.8	23
54	Mercury's spectrophotometric properties: Update from the Mercury Dual Imaging System observations during the third MESSENGER flyby. Planetary and Space Science, 2011, 59, 1853-1872.	1.7	22

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55	The <scp>UV</scp> signature of carbon in the solar system. Meteoritics and Planetary Science, 2016, 51, 105-115.	1.6	21
56	Structure of scintillations in Neptune's occultation shadow. Astrophysical Journal, 1988, 325, 490.	4.5	21
57	Investigating the Vesta–vestoid–HED connection. Icarus, 2004, 167, 360-368.	2.5	19
58	LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. Space Science Reviews, 2012, 167, 93-140.	8.1	19
59	New candidates for active asteroids: Main-belt (145) Adeona, (704) Interamnia, (779) Nina, (1474) Beira, and near-Earth (162,173) Ryugu. Icarus, 2018, 304, 83-94.	2.5	18
60	The McDonald Observatory Serendipitous UV/Blue Spectral Survey of Asteroids. Icarus, 1997, 127, 121-129.	2.5	17
61	Aqueous alteration affecting the irregular outer planets satellites: Evidence from spectral reflectance. Icarus, 2006, 180, 453-463.	2.5	17
62	Characterization of the morphometry of impact craters hosting polar deposits in Mercury's north polar region. Journal of Geophysical Research, 2012, 117, .	3.3	17
63	MESSENGER Observations of Magnetohydrodynamic Waves in the Solar Corona from Faraday Rotation. Solar Physics, 2013, 285, 71-82.	2.5	17
64	Câ€Complex Asteroids: UVâ€Visible Spectral Characteristics and Implications for Space Weathering Effects. Geophysical Research Letters, 2019, 46, 14307-14317.	4.0	17
65	A newly-identified spectral reflectance signature near the lunar South pole and the South Pole-Aitken Basin. Earth, Planets and Space, 2008, 60, 67-74.	2.5	15
66	Digging into the surface of the icy dwarf planet Eris. Icarus, 2009, 199, 520-525.	2.5	15
67	Measurements of Faraday Rotation Through the Solar Corona During the 2009 Solar Minimum with the MESSENGER Spacecraft. Solar Physics, 2013, 285, 83-95.	2.5	15
68	Vis-NIR disk-integrated photometry of asteroid 25143 Itokawa around opposition by AMICA/Hayabusa. Icarus, 2018, 311, 175-196.	2.5	15
69	Multivariable statistical analysis of spectrophotometry and spectra of (162173) Ryugu as observed by JAXA Hayabusa2 mission. Astronomy and Astrophysics, 2019, 629, A13.	5.1	15
70	Vesta's UV lightcurve: hemispheric variationin brightness and spectral reversal. Icarus, 2003, 162, 1-9.	2.5	14
71	The 506nm absorption feature in pyroxene spectra: Nature and implications for spectroscopy-based studies of pyroxene-bearing targets. Icarus, 2010, 207, 295-313.	2.5	14
72	THE UV/BLUE EFFECTS OF SPACE WEATHERING MANIFESTED IN S-COMPLEX ASTEROIDS. I. QUANTIFYING CHANGE WITH ASTEROID AGE. Astronomical Journal, 2015, 150, 64.	4.7	14

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73	Closing in on HED meteorite sources. Earth, Planets and Space, 2001, 53, 1077-1083.	2.5	13
74	How much material do the radar-bright craters at the Mercurian poles contain?. Planetary and Space Science, 2005, 53, 1496-1500.	1.7	13
75	Is the U-B Color Sufficient for Identifying Water of Hydration on Solar System Bodies?. Icarus, 1995, 115, 217-218.	2.5	12
76	Extracting Spectral Information about 253 Mathilde Using the NEAR Photometry. Icarus, 1997, 129, 440-449.	2.5	12
77	Local topographic effects on photometry and reflectance spectra of planetary surfaces: An example based on lunar photometry. Meteoritics and Planetary Science, 2007, 42, 1801-1816.	1.6	12
78	The 2004 Las Campanas/Lowell Observatory campaign II. Surface properties of Hayabusa target Asteroid 25143 Itokawa inferred from Hapke modeling. Earth, Planets and Space, 2008, 60, 49-59.	2.5	12
79	Mercury's Hollows. , 2018, , 324-345.		12
80	The 2004 Las Campanas/Lowell Observatory Itokawa campaign: I. Simultaneous visible and near-infrared photometry of the Hayabusa mission target. Earth, Planets and Space, 2008, 60, 39-48.	2.5	9
81	Physical parameters of near-Earth asteroid 1982 DV. Icarus, 1985, 63, 201-205.	2.5	8
82	Plasma Interactions with the Space Environment in the Acceleration Region: Indications of CME-trailing Reconnection Regions. Astrophysical Journal, 2018, 861, 118.	4.5	8
83	Lunar occultations from Cerro Tololo. II. Angular diameters for xi2 SGR and pi Leo Publications of the Pacific, 1977, 89, 95.	3.1	8
84	Coronagraph for astronomical imaging and spectrophotometry. Applied Optics, 1987, 26, 664.	2.1	7
85	lapetus dark and bright material:. Icarus, 2004, 170, 125-130.	2.5	7
86	A CCD search for geosynchronous debris. Icarus, 1986, 68, 412-417.	2.5	6
87	Spectrophotometry of Kuiper Belt Objects 20000 Varuna, 2000 Eb173and Centaur 10199 Chariklo. Earth, Moon and Planets, 2003, 92, 193-199.	0.6	6
88	A charge-coupled device observation of Charon. Icarus, 1983, 56, 75-79.	2.5	5
89	Space station freedom debris protection techniques. Advances in Space Research, 1993, 13, 191-200.	2.6	5
90	Thermal models applicable for visual and infrared studies of orbital debris. Advances in Space Research, 1990, 10, 377-380.	2.6	4

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91	Low-cost airborne astronomy imager to begin research phase. Eos, 2000, 81, 101-105.	0.1	4
92	The UV/blue effects of space weathering manifested in S-complex asteroids II: Probing for less-weathered objects in the Solar System. Planetary and Space Science, 2015, 118, 273-276.	1.7	3
93	Regional spectrophotometric properties of 951 Gaspra. Icarus, 2016, 280, 340-358.	2.5	3
94	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. Planetary Science Journal, 2021, 2, 178.	3.6	3
95	Neptune's rings. Nature, 1986, 319, 616-616.	27.8	2
96	The detection of earth orbiting objects by IRAS. Advances in Space Research, 1990, 10, 381-384.	2.6	1
97	The science enabled by a dedicated solar system space telescope. , 2021, 53, .		1
98	Spectrophotometry of Kuiper Belt Objects 20000 Varuna, 2000 EB173 and Centaur 10199 Chariklo. , 2004, , 193-199.		1
99	Editorial: Introducing the Planetary Science Journal. Planetary Science Journal, 2020, 1, 1.	3.6	1
100	<title>SWUIS-A: a versatile low-cost UV/VIS/IR imaging system for airborne astronomy and aeronomy research</title> . , 2000, , .		0
101	Space Weathering of S-Complex Asteroids Manifested in the UV/Blue: Recent Insights and Future Directions. Proceedings of the International Astronomical Union, 2015, 10, 201-205.	0.0	0
102	Asteroid, Meteoroid, and Spacecraft Reentry Accidents. , 2016, , 905-908.		0
103	Architectures and Technologies for a Space Telescope for Solar System Science. , 2021, 53, .		0
104	The Small Satellites of the Solar System: Priorities for the Decadal Study. , 2021, 53, .		0
105	Asteroid, Meteoroid, and Spacecraft Reentry Accidents. , 2006, , 838-841.		0

106 Nadine G. Barlow (1958–2020). , 2020, 52, .

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