

Elizabeth P Turtle

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,605
citations

76326

40
h-index

102487

66
g-index

82
all docs

82
docs citations

82
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging of Titan from the Cassini spacecraft. <i>Nature</i> , 2005, 434, 159-168.	27.8	390
2	Does Europa have a subsurface ocean? Evaluation of the geological evidence. <i>Journal of Geophysical Research</i> , 1999, 104, 24015-24055.	3.3	363
3	The rayed crater Zunil and interpretations of small impact craters on Mars. <i>Icarus</i> , 2005, 176, 351-381.	2.5	335
4	Rapid and Extensive Surface Changes Near Titan's Equator: Evidence of April Showers. <i>Science</i> , 2011, 331, 1414-1417.	12.6	184
5	Cassini imaging of Titan's high-latitude lakes, clouds, and south-polar surface changes. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	160
6	Thickness of a European Ice Shell from Impact Crater Simulations. <i>Science</i> , 2001, 294, 1326-1328.	12.6	136
7	Evidence of Recent Thrust Faulting on the Moon Revealed by the Lunar Reconnaissance Orbiter Camera. <i>Science</i> , 2010, 329, 936-940.	12.6	135
8	Galileo at Io: Results from High-Resolution Imaging. <i>Science</i> , 2000, 288, 1193-1198.	12.6	120
9	Imaging of volcanic activity on Jupiter's moon Io by Galileo during the Galileo Europa Mission and the Galileo Millennium Mission. <i>Journal of Geophysical Research</i> , 2001, 106, 33025-33052.	3.3	118
10	Lava lakes on Io: observations of Io's volcanic activity from Galileo NIMS during the 2001 fly-bys. <i>Icarus</i> , 2004, 169, 140-174.	2.5	118
11	Large Impact Features on Europa: Results of the Galileo Nominal Mission. <i>Icarus</i> , 1998, 135, 127-145.	2.5	110
12	Hyperion's sponge-like appearance. <i>Nature</i> , 2007, 448, 50-53.	27.8	90
13	Paterae on Io: A new type of volcanic caldera?. <i>Journal of Geophysical Research</i> , 2001, 106, 33005-33020.	3.3	85
14	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	3.6	80
15	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
16	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
17	Seasonal changes in Titan's meteorology. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	76
18	A global topographic map of Titan. <i>Icarus</i> , 2013, 225, 367-377.	2.5	70

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19	Shoreline features of Titan's Ontario Lacus from Cassini/VIMS observations. <i>Icarus</i> , 2009, 201, 217-225.	2.5	69
20	Orogenic tectonism on Io. <i>Journal of Geophysical Research</i> , 2003, 108, 12-1-12-18.	3.3	68
21	Global mapping and characterization of Titan's dune fields with Cassini: Correlation between RADAR and VIMS observations. <i>Icarus</i> , 2014, 230, 168-179.	2.5	68
22	A post-Galileo view of Io's interior. <i>Icarus</i> , 2004, 169, 271-286.	2.5	66
23	Cassini observations of flow-like features in western Tui Regio, Titan. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	66
24	The topography of Iapetus' leading side. <i>Icarus</i> , 2008, 193, 359-371.	2.5	61
25	Observations and temperatures of Io's Pele Patera from Cassini and Galileo spacecraft images. <i>Icarus</i> , 2004, 169, 65-79.	2.5	58
26	Mountains on Io: High-resolution Galileo observations, initial interpretations, and formation models. <i>Journal of Geophysical Research</i> , 2001, 106, 33175-33199.	3.3	56
27	The final Galileo SSI observations of Io: orbits G28-I33. <i>Icarus</i> , 2004, 169, 3-28.	2.5	56
28	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	1.7	56
29	Locally enhanced precipitation organized by planetary-scale waves on Titan. <i>Nature Geoscience</i> , 2011, 4, 589-592.	12.9	52
30	Impact structures: What does crater diameter mean?. , 2005, , .		47
31	The evolution of Titan's detached haze layer near equinox in 2009. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	47
32	Titan's Meteorology Over the Cassini Mission: Evidence for Extensive Subsurface Methane Reservoirs. <i>Geophysical Research Letters</i> , 2018, 45, 5320-5328.	4.0	47
33	A global geomorphologic map of Saturn's moon Titan. <i>Nature Astronomy</i> , 2020, 4, 228-233.	10.1	46
34	Numerical modeling of impact heating and cooling of the Vredefort impact structure. <i>Meteoritics and Planetary Science</i> , 2003, 38, 293-303.	1.6	45
35	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. <i>Planetary Science</i> , 2013, 2, .	1.5	45
36	Nature, distribution, and origin of Titan's Undifferentiated Plains. <i>Icarus</i> , 2016, 270, 162-182.	2.5	45

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37	Landform degradation and slope processes on Io: The Galileo view. <i>Journal of Geophysical Research</i> , 2001, 106, 33223-33240.	3.3	44
38	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	3.7	44
39	Transient features in a Titan sea. <i>Nature Geoscience</i> , 2014, 7, 493-496.	12.9	43
40	Constraints on the size of the Vredefort impact crater from numerical modeling. <i>Meteoritics and Planetary Science</i> , 1998, 33, 483-490.	1.6	42
41	Crater topography on Titan: Implications for landscape evolution. <i>Icarus</i> , 2013, 223, 82-90.	2.5	42
42	Cassini Imaging Science Subsystem observations of Titan's south polar cloud. <i>Icarus</i> , 2016, 270, 399-408.	2.5	39
43	Mapping of the Culann's Tohil region of Io from Galileo imaging data. <i>Icarus</i> , 2004, 169, 80-97.	2.5	38
44	Volcanic activity at Tvashtar Catena, Io. <i>Icarus</i> , 2005, 179, 235-251.	2.5	38
45	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016, 270, 130-161.	2.5	38
46	Selection and Characteristics of the Dragonfly Landing Site near Selk Crater, Titan. <i>Planetary Science Journal</i> , 2021, 2, 24.	3.6	36
47	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	34
48	A radar map of Titan Seas: Tidal dissipation and ocean mixing through the throat of Kraken. <i>Icarus</i> , 2014, 237, 9-15.	2.5	33
49	Strategies for Detecting Biological Molecules on Titan. <i>Astrobiology</i> , 2018, 18, 571-585.	3.0	33
50	Characteristics of Icy Surfaces. <i>Space Science Reviews</i> , 2010, 153, 63-111.	8.1	32
51	Material transport map of Titan: The fate of dunes. <i>Icarus</i> , 2016, 270, 183-196.	2.5	32
52	Geology and Surface Processes on Titan. , 2009, , 75-140.		27
53	Ridges and tidal stress on Io. <i>Icarus</i> , 2004, 169, 111-126.	2.5	24
54	Hypsometry of Titan. <i>Icarus</i> , 2011, 211, 699-706.	2.5	22

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55	Titan's impact crater population after Cassini. <i>Icarus</i> , 2020, 344, 113664.	2.5	20
56	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Science Reviews</i> , 2010, 153, 375-410.	8.1	19
57	Titan Science with the James Webb Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018007.	3.1	19
58	The seasonal cycle of Titan's detached haze. <i>Nature Astronomy</i> , 2018, 2, 495-500.	10.1	19
59	The case for seasonal surface changes at Titan's lake district. <i>Nature Astronomy</i> , 2019, 3, 506-510.	10.1	19
60	The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. <i>Planetary Science Journal</i> , 2021, 2, 120.	3.6	19
61	Io Volcano Observer (IVO): Budget travel to the outer Solar System. <i>Acta Astronautica</i> , 2014, 93, 539-544.	3.2	17
62	Science goals and mission concept for the future exploration of Titan and Enceladus. <i>Planetary and Space Science</i> , 2014, 104, 59-77.	1.7	15
63	Volcanic history, geologic analysis and map of the Prometheus Patera region on Io. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 187, 93-105.	2.1	14
64	Observational Evidence for Summer Rainfall at Titan's North Pole. <i>Geophysical Research Letters</i> , 2019, 46, 1205-1212.	4.0	14
65	Eruptive behavior of the Marum/Mbwelesu lava lake, Vanuatu and comparisons with lava lakes on Earth and Io. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 105-118.	2.1	11
66	Ionian mountains and tectonics: Insights into what lies beneath Io's lofty peaks. , 2007, , 109-131.		9
67	Hydrogen sensing in Titan's atmosphere: Motivations and techniques. <i>Planetary and Space Science</i> , 2019, 174, 1-7.	1.7	5
68	Mapping Products of Titan's Surface. , 2009, , 489-510.		5
69	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan POLar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). <i>Experimental Astronomy</i> , 2022, 54, 911-973.	3.7	5
70	The roar of Yasur: Handheld audio recorder monitoring of Vanuatu volcanic vent activity. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 168-174.	2.1	4
71	AMBASSADOR: Asteroid sample return mission to 7 Iris. <i>Acta Astronautica</i> , 1999, 45, 415-422.	3.2	3
72	Correction to "Mountains on Io: High-resolution Galileo observations, initial interpretations, and formation models" by E. P. Turtle et al.. <i>Journal of Geophysical Research</i> , 2002, 107, 8-1.	3.3	3

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73	Io Volcano Observer's (IVO) integrated approach to optimizing system design for radiation challenges. , 2012, , .		3
74	Titan's Twilight and Sunset Solar Illumination. <i>Astronomical Journal</i> , 2018, 156, 247.	4.7	3
75	Modeling transmission windows in Titan's lower troposphere: Implications for infrared spectrometers aboard future aerial and surface missions. <i>Icarus</i> , 2021, 357, 114228.	2.5	3
76	Tracking Short-term Variations in the Haze Distribution of Titan's Atmosphere with SINFONI VLT. <i>Planetary Science Journal</i> , 2021, 2, 180.	3.6	3
77	Characteristics of Icy Surfaces. <i>Space Sciences Series of ISSI</i> , 2010, , 61-109.	0.0	3
78	Seismology on Titan: A seismic signal and noise budget in preparation for Dragonfly. , 2020, , .		2
79	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Sciences Series of ISSI</i> , 2010, , 373-408.	0.0	1
80	The Science Case for a Titan Flagship-class Orbiter with Probes. , 2021, 53, .		0