Matthew S Tiscareno

List of Publications by Year
in descending order

48	2,526	331670	302126
papers	citations	21 h-index	39 g-index

48	48	48	1979
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cassini Imaging of Jupiter's Atmosphere, Satellites, and Rings. Science, 2003, 299, 1541-1547.	12.6	405
2	Imaging of Titan from the Cassini spacecraft. Nature, 2005, 434, 159-168.	27.8	390
3	Enceladusâ€™s measured physical libration requires a global subsurface ocean. Icarus, 2016, 264, 37-47.	2.5	289
4	The Dynamics of Known Centaurs. Astronomical Journal, 2003, 126, 3122-3131.	4.7	140
5	100-metre-diameter moonlets in Saturn's A ring from observations of 'propeller' structures. Nature, 2006, 440, 648-650.	27.8	112
6	Cassini imaging of Saturn's rings. Icarus, 2007, 189, 14-34.	2.5	107
7	THE POPULATION OF PROPELLERS IN SATURN'S A RING. Astronomical Journal, 2008, 135, 1083-1091.	4.7	85
8	PHYSICAL CHARACTERISTICS AND NON-KEPLERIAN ORBITAL MOTION OF â€œPROPELLERâ€•MOONS EMBEDDED IN SATURNâ€™S RINGS. Astrophysical Journal Letters, 2010, 718, L92-L96.	8.3	63
9	The rotation of Janus and Epimetheus. Icarus, 2009, 204, 254-261.	2.5	62
10	The Source of Saturn's G Ring. Science, 2007, 317, 653-656.	12.6	59
11	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
12	Observations of Ejecta Clouds Produced by Impacts onto Saturnâ€™s Rings. Science, 2013, 340, 460-464.	12.6	55
13	Saturn's dynamic D ring. Icarus, 2007, 188, 89-107.	2.5	50
14	Scientific rationale for Saturn×³s in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	1.7	49
15	CHAOTIC DIFFUSION OF RESONANT KUIPER BELT OBJECTS. Astronomical Journal, 2009, 138, 827-837.	4.7	48
16	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
17	Planetary Rings. , 2013, , 309-375.		39
18	Cassini imaging search rules out rings around Rhea. Geophysical Research Letters, 2010, 37, .	4.0	38

#	Article	IF	Citations
19	Dynamical History of the Uranian System. Planetary Science Journal, 2020, 1, 22.	3.6	36
20	RING EDGE WAVES AND THE MASSES OF NEARBY SATELLITES. Astronomical Journal, 2009, 138, 272-286.	4.7	34
21	A modified â€œType I migrationâ€•model for propeller moons in Saturn's rings. Planetary and Space Science, 2013, 77, 136-142.	1.7	34
22	Unravelling Temporal Variability in Saturn's Spiral Density Waves: Results and Predictions. Astrophysical Journal, 2006, 651, L65-L68.	4.5	33
23	COMPOSITIONS AND ORIGINS OF OUTER PLANET SYSTEMS: INSIGHTS FROM THE ROCHE CRITICAL DENSITY. Astrophysical Journal Letters, 2013, 765, L28.	8.3	33
24	Orbital instability of close-in exomoons in non-coplanar systems. Monthly Notices of the Royal Astronomical Society, 2015, 449, 828-834.	4.4	28
25	Grooves on small saturnian satellites and other objects: Characteristics and significance. Icarus, 2009, 204, 262-270.	2.5	27
26	Observing Planetary Rings and Small Satellites with the James Webb Space Telescope: Science Justification and Observation Requirements. Publications of the Astronomical Society of the Pacific, 2016, 128, 018008.	3.1	24
27	Close-range remote sensing of Saturnâ€™s rings during Cassiniâ€™s ring-grazing orbits and Grand Finale. Science, 2019, 364, .	12.6	17
28	AN ANALYTIC PARAMETERIZATION OF SELF-GRAVITY WAKES IN SATURN'S RINGS, WITH APPLICATION TO OCCULTATIONS AND PROPELLERS. Astronomical Journal, 2010, 139, 492-503.	4.7	16
29	Probing the inner boundaries of Saturnâ€™s A ring with the Iapetus â^'1:0 nodal bending wave. Icarus, 2013, 224, 201-208.	2.5	16
30	How Janusâ€™ orbital swap affects the edge of Saturnâ€™s A ring?. Icarus, 2016, 279, 125-140.	2.5	16
31	Can redistribution of material by sputtering explain the hemispheric dichotomy of europa?. Icarus, 2003, 161, 90-101.	2.5	14
32	Solar System Observations with theJames Webb Space Telescope. Publications of the Astronomical Society of the Pacific, 2016, 128, 025004.	3.1	13
33	Dynamical phenomena at the inner edge of the Keeler gap. Icarus, 2017, 289, 80-93.	2.5	12
34	The Origin of Planetary Ring Systems. , 0, , 517-538.		12
35	Mapping spiral waves and other radial features in Saturnâ€™s rings. Icarus, 2018, 312, 157-171.	2.5	11
36	UMaMI: A New Frontiers-style Mission Concept to Explore the Uranian System. Planetary Science Journal, 2021, 2, 174.	3.6	11

#	Article	IF	Citations
37	The Rings of Saturn. , 0, , 51-92.		10
38	Computer Simulations of Planetary Rings. , 0, , 434-493.		7
39	Dusty Rings. , 0, , 308-337.		6
40	A review of Morlet wavelet analysis of radial profiles of Saturn's rings. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20180046.	3.4	6
41	ON THE LINEAR DAMPING RELATION FOR DENSITY WAVES IN SATURNâ€™S RINGS. Astrophysical Journal, 2016, 824, 33.	4.5	4
42	Narrow Rings, Gaps, and Sharp Edges. , 0, , 276-307.		4
43	Meteoroid Bombardment and Ballistic Transport in Planetary Rings. , 0, , 198-224.		3
44	Stability of rings around a triaxial primary. Astronomy and Astrophysics, 2015, 576, A92.	5.1	3
45	Moonlets in Dense Planetary Rings. , 0, , 157-197.		2
46	Cupid is not Doomed Yet: On the Stability of the Inner Moons of Uranus. Astronomical Journal, 2022, 164, 38.	4.7	2
47	Gravity Investigation of Saturnâ€™s Inner System with the Innovative Skimmer Concept. Planetary Science Journal, 2022, 3, 19.	3.6	1
48	Saturn's colossal ring. Nature, 2009, 461, 1064-1065.	27.8	0