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	Gravity Investigation of Saturnâ€™s Inner System with the Innovative Skimmer Concept. Planetary Science Journal, 2022, 3, 19.	3.6	1
2	Cupid is not Doomed Yet: On the Stability of the Inner Moons of Uranus. Astronomical Journal, 2022, 164, 38.	4.7	2
3	UMaMI: A New Frontiers-style Mission Concept to Explore the Uranian System. Planetary Science Journal, 2021, 2, 174.	3.6	11
4	Dynamical History of the Uranian System. Planetary Science Journal, 2020, 1, 22.	3.6	36
5	Close-range remote sensing of Saturnâ€™s rings during Cassiniâ€™s ring-grazing orbits and Grand Finale. Science, 2019, 364, .	12.6	17
6	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
7	Mapping spiral waves and other radial features in Saturnâ€™s rings. Icarus, 2018, 312, 157-171.	2.5	11
8	Dynamical phenomena at the inner edge of the Keeler gap. Icarus, 2017, 289, 80-93.	2.5	12
9	ON THE LINEAR DAMPING RELATION FOR DENSITY WAVES IN SATURNâ€™S RINGS. Astrophysical Journal, 2016, 824, 33.	4.5	4
10	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
11	Solar System Observations with theJames Webb Space Telescope. Publications of the Astronomical Society of the Pacific, 2016, 128, 025004.	3.1	13
12	How Janusâ€™ orbital swap affects the edge of Saturnâ€™s A ring?. Icarus, 2016, 279, 125-140.	2.5	16
13	Enceladusâ€™s measured physical libration requires a global subsurface ocean. Icarus, 2016, 264, 37-47.	2.5	289
14	Orbital instability of close-in exomoons in non-coplanar systems. Monthly Notices of the Royal Astronomical Society, 2015, 449, 828-834.	4.4	28
15	Stability of rings around a triaxial primary. Astronomy and Astrophysics, 2015, 576, A92.	5.1	3
16	Scientific rationale for Saturn×³s in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	1.7	49
17	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
18	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

#	Article	IF	Citations
19	Observations of Ejecta Clouds Produced by Impacts onto Saturnâ€™s Rings. Science, 2013, 340, 460-464.	12.6	55
20	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
21	COMPOSITIONS AND ORIGINS OF OUTER PLANET SYSTEMS: INSIGHTS FROM THE ROCHE CRITICAL DENSITY. Astrophysical Journal Letters, 2013, 765, L28.	8.3	33
22	Planetary Rings. , 2013, , 309-375.		39
23	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
24	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
25	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
26	Cassini imaging search rules out rings around Rhea. Geophysical Research Letters, 2010, 37, .	4.0	38
27	RING EDGE WAVES AND THE MASSES OF NEARBY SATELLITES. Astronomical Journal, 2009, 138, 272-286.	4.7	34
28	CHAOTIC DIFFUSION OF RESONANT KUIPER BELT OBJECTS. Astronomical Journal, 2009, 138, 827-837.	4.7	48
29	Saturn's colossal ring. Nature, 2009, 461, 1064-1065.	27.8	0
30	Grooves on small saturnian satellites and other objects: Characteristics and significance. Icarus, 2009, 204, 262-270.	2.5	27
31	The rotation of Janus and Epimetheus. Icarus, 2009, 204, 254-261.	2.5	62
32	THE POPULATION OF PROPELLERS IN SATURN'S A RING. Astronomical Journal, 2008, 135, 1083-1091.	4.7	85
33	The Source of Saturn's G Ring. Science, 2007, 317, 653-656.	12.6	59
34	Saturn's dynamic D ring. Icarus, 2007, 188, 89-107.	2.5	50
35	Cassini imaging of Saturn's rings. Icarus, 2007, 189, 14-34.	2.5	107
36	Unravelling Temporal Variability in Saturn's Spiral Density Waves: Results and Predictions. Astrophysical Journal, 2006, 651, L65-L68.	4.5	33

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37	100-metre-diameter moonlets in Saturn's A ring from observations of 'propeller' structures. Nature, 2006, 440, 648-650.	27.8	112
38	Imaging of Titan from the Cassini spacecraft. Nature, 2005, 434, 159-168.	27.8	390
39	Can redistribution of material by sputtering explain the hemispheric dichotomy of europa?. Icarus, 2003, 161, 90-101.	2.5	14
40	Cassini Imaging of Jupiter's Atmosphere, Satellites, and Rings. Science, 2003, 299, 1541-1547.	12.6	405
41	The Dynamics of Known Centaurs. Astronomical Journal, 2003, 126, 3122-3131.	4.7	140
42	The Rings of Saturn. , 0, , 51-92.		10
43	Moonlets in Dense Planetary Rings. , 0, , 157-197.		2
44	Meteoroid Bombardment and Ballistic Transport in Planetary Rings. , 0, , 198-224.		3
45	Narrow Rings, Gaps, and Sharp Edges. , 0, , 276-307.		4
46	Dusty Rings. , 0, , 308-337.		6
47	Computer Simulations of Planetary Rings. , 0, , 434-493.		7
48	The Origin of Planetary Ring Systems. , 0, , 517-538.		12