

Shantanu P Naidu

List of Publications by Year in descending order

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papers

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951
citing authors

#	ARTICLE	IF	CITATIONS
1	The Double Asteroid Redirection Test (DART): Planetary Defense Investigations and Requirements. <i>Planetary Science Journal</i> , 2021, 2, 173.	3.6	110
2	Radar observations and a physical model of binary near-Earth asteroid 65803 Didymos, target of the DART mission. <i>Icarus</i> , 2020, 348, 113777.	2.5	106
3	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. <i>Advances in Space Research</i> , 2016, 57, 2529-2547.	2.6	95
4	Binary asteroid population. 3. Secondary rotations and elongations. <i>Icarus</i> , 2016, 267, 267-295.	2.5	76
5	Creep stability of the proposed AIDA mission target 65803 Didymos: I. Discrete cohesionless granular physics model. <i>Icarus</i> , 2017, 294, 98-123.	2.5	74
6	Fission and reconfiguration of bilobate comets as revealed by 67P/Churyumovâ€™Gerasimenko. <i>Nature</i> , 2016, 534, 352-355.	27.8	68
7	NEAR-EARTH ASTEROID SATELLITE SPINS UNDER SPINâ€™ORBIT COUPLING. <i>Astronomical Journal</i> , 2015, 149, 80.	4.7	41
8	RADAR IMAGING AND CHARACTERIZATION OF THE BINARY NEAR-EARTH ASTEROID (185851) 2000 DP107. <i>Astronomical Journal</i> , 2015, 150, 54.	4.7	38
9	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: I. mechanical environment and dynamical model. <i>Icarus</i> , 2017, 282, 313-325.	2.5	37
10	Numerical investigation of the dynamical environment of 65803 Didymos. <i>Advances in Space Research</i> , 2017, 59, 1304-1320.	2.6	33
11	Constraints on Mercuryâ€™s Na exosphere: Combined MESSENGER and ground-based data. <i>Icarus</i> , 2011, 211, 21-36.	2.5	32
12	CAPABILITIES OF EARTH-BASED RADAR FACILITIES FOR NEAR-EARTH ASTEROID OBSERVATIONS. <i>Astronomical Journal</i> , 2016, 152, 99.	4.7	23
13	Assessing possible mutual orbit period change by shape deformation of Didymos after a kinetic impact in the NASA-led Double Asteroid Redirection Test. <i>Advances in Space Research</i> , 2019, 63, 2515-2534.	2.6	21
14	Asteroid 1566 Icarusâ€™s Size, Shape, Orbit, and Yarkovsky Drift from Radar Observations. <i>Astronomical Journal</i> , 2017, 153, 108.	4.7	18
15	Constraints on the perturbed mutual motion in Didymos due to impact-induced deformation of its primary after the DART impact. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1641-1648.	4.4	16
16	Establishing Earthâ€™s Minimoons Population through Characterization of Asteroid 2020 CD ₃ . <i>Astronomical Journal</i> , 2020, 160, 277.	4.7	16
17	Radar imaging and physical characterization of near-Earth Asteroid (162421) 2000 ET70. <i>Icarus</i> , 2013, 226, 323-335.	2.5	15
18	Near-Earth asteroid 2012 TC4 observing campaign: Results from a global planetary defense exercise. <i>Icarus</i> , 2019, 326, 133-150.	2.5	14

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19	Search for OH 18 cm Radio Emission from 11/2017 U1 with the Green Bank Telescope. <i>Astronomical Journal</i> , 2018, 155, 185.	4.7	11
20	Precovery Observations Confirm the Capture Time of Asteroid 2020 CD3 as Earth's Minimum. <i>Astrophysical Journal Letters</i> , 2021, 913, L6.	8.3	6
21	Arecibo Radar Astrometry of the Galilean Satellites from 1999 to 2016. <i>Astronomical Journal</i> , 2020, 159, 149.	4.7	5
22	Radar and Lightcurve Observations and a Physical Model of Potentially Hazardous Asteroid 1981 Midas. <i>Planetary Science Journal</i> , 2022, 3, 35.	3.6	4
23	Apophis Planetary Defense Campaign. <i>Planetary Science Journal</i> , 2022, 3, 123.	3.6	4
24	Recoverability of Known Near-Earth Asteroids. <i>Astronomical Journal</i> , 2020, 160, 250.	4.7	2
25	FIRE - Flyby of Io with Repeat Encounters: A conceptual design for a New Frontiers mission to Io. <i>Advances in Space Research</i> , 2017, 60, 1080-1100.	2.6	1
26	Goldstone Radar Observations of Horseshoe-orbiting Near-Earth Asteroid 2013 BS45, a Potential Mission Target. <i>Astronomical Journal</i> , 2019, 157, 24.	4.7	1
27	Bistatic radar observations of near-earth asteroid (163899) 2003 SD220 from the southern hemisphere. <i>Icarus</i> , 2021, 357, 114250.	2.5	1
28	Spin-orbit coupling in binary asteroids. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 66-68.	0.0	0