Yang Yu

List of Publications by Year
in descending order

40	896	394421 19	477307 29
papers	citations	h-index	g-index

43	43	43	545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measuring the mechanical properties of small body regolith layers using a granular penetrometer. Astrodynamics, 2023, 7, 15-29.	2.4	5
2	Reconstructing the formation history of top-shaped asteroids from the surface boulder distribution. Nature Astronomy, 2021, 5, 134-138.	10.1	27
3	Dynamical behavior of flexible net spacecraft for landing on asteroid. Astrodynamics, 2021, 5, 249-261.	2.4	15
4	Potential hop reachable domain over surfaces of small bodies. Aerospace Science and Technology, 2021, 112, 106600.	4.8	25
5	Physics-driven locomotion planning method for a planar closed-loop terrain-adaptive robot. Mechanism and Machine Theory, 2021, 162, 104353.	4.5	8
6	A Parametric Shape Model Applied to Tracing the Migration of the Objects Near an Asteroid. Earth and Space Science, 2021, 8, e2019EA001043.	2.6	0
7	Sand creep motion in slow spin-up experiment: An analog of regolith migration on asteroids. Physical Review E, 2021, 104, L042901.	2.1	3
8	Free-Vertex Tetrahedral Finite-Element Representation and Its Use for Estimating Density Distribution of Irregularly-Shaped Asteroids. Aerospace, 2021, 8, 371.	2.2	1
9	The Flare and Warp of the Young Stellar Disk Traced with LAMOST DR5 OB-type Stars. Astrophysical Journal, 2021, 922, 80.	4.5	11
10	A Catalog of 323 Cataclysmic Variables from LAMOST DR6. Astrophysical Journal, Supplement Series, 2021, 257, 65.	7.7	7
11	A finite element method for computational full two-body problem: I. The mutual potential and derivatives over bilinear tetrahedron elements. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1.	1.4	13
12	A terrain-adaptive robot prototype designed for bumpy-surface exploration. Mechanism and Machine Theory, 2019, 141, 213-225.	4.5	22
13	Numerical simulations of the controlled motion of a hopping asteroid lander on the regolith surface. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3088-3096.	4.4	24
14	The expansion of debris flow shed from the primary of 65803 Didymos. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1057-1071.	4.4	5
15	Assessing possible mutual orbit period change by shape deformation of Didymos after a kinetic impact in the NASA-led Double Asteroid Redirection Test. Advances in Space Research, 2019, 63, 2515-2534.	2.6	21
16	Large-scale modeling of parametric asteroid surfaces using polynomial series. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 084507.	0.4	2
17	The Dipole Segment Model for Axisymmetrical Elongated Asteroids. Astronomical Journal, 2018, 155, 85.	4.7	20
18	The Dynamical Complexity of Surface Mass Shedding from a Top-shaped Asteroid Near the Critical Spin Limit. Astronomical Journal, 2018, 156, 59.	4.7	29

#	Article	IF	Citations
19	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: II. Fates and evolutionary dependencies. Icarus, 2018, 312, 128-144.	2.5	27
20	Collision-based understanding of the force law in granular impact dynamics. Physical Review E, 2018, 98, 012901.	2.1	12
21	Asteroid surface impact sampling: dependence of the cavity morphology and collected mass on projectile shape. Scientific Reports, 2017, 7, 10004.	3.3	10
22	Constraints on the perturbed mutual motion in Didymos due to impact-induced deformation of its primary after the DART impact. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1641-1648.	4.4	16
23	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: I. mechanical environment and dynamical model. Icarus, 2017, 282, 313-325.	2.5	37
24	Structural analysis of rubble-pile asteroids applied to collisional evolution. Astrodynamics, 2017, 1, 57-69.	2.4	9
25	Orbital Dynamics in the Gravitational Field of Small Bodies. Springer Theses, 2016, , .	0.1	3
26	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. Advances in Space Research, 2016, 57, 2529-2547.	2.6	95
27	Generalized flyby trajectories around elongated minor celestial bodies as a rotating mass dipole. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 535-545.	3.4	7
28	Small-body deflection techniques using spacecraft: Techniques in simulating the fate of ejecta. Advances in Space Research, 2016, 57, 1832-1846.	2.6	10
29	Order and chaos near equilibrium points in the potential of rotating highly irregular-shaped celestial bodies. Nonlinear Dynamics, 2016, 83, 231-252.	5.2	32
30	Modeling of migrating grains on asteroidâ€™s surface. Astrophysics and Space Science, 2015, 355, 43-56.	1.4	20
31	Numerical simulations of collisional disruption of rotating gravitational aggregates: Dependence on material properties. Planetary and Space Science, 2015, 107, 29-35.	1.7	25
32	Topological classifications and bifurcations of periodic orbits in the potential field of highly irregular-shaped celestial bodies. Nonlinear Dynamics, 2015, 81, 119-140.	5.2	46
33	Constructing the natural families of periodic orbits near irregular bodies. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3270-3278.	4.4	15
34	Numerical predictions of surface effects during the 2029 close approach of Asteroid 99942 Apophis. Icarus, 2014, 242, 82-96.	2.5	68
35	Routing the asteroid surface vehicle with detailed mechanics. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 301-309.	3.4	19
36	Resonant orbits in the vicinity of asteroid 216 Kleopatra. Astrophysics and Space Science, 2013, 343, 75-82.	1.4	33

#	ARTICLE	IF	CITATIONS
37	Orbital Maneuver for a Rotating Tethered System via Tidal Forces. Journal of Spacecraft and Rockets, 2013, 50, 1060-1068.	1.9	3
38	ORBITAL DYNAMICS IN THE VICINITY OF ASTEROID 216 KLEOPATRA. Astronomical Journal, 2012, 143, 62.	4.7	74
39	Generating families of 3D periodic orbits about asteroids. Monthly Notices of the Royal Astronomical Society, 2012, 427, 872-881.	4.4	76
40	Dynamic modelling and analysis of space webs. Science China: Physics, Mechanics and Astronomy, 2011, 54, 783-791.	5.1	20