

Yang Yu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Generating families of 3D periodic orbits about asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 872-881.	4.4	76
3	ORBITAL DYNAMICS IN THE VICINITY OF ASTEROID 216 KLEOPATRA. <i>Astronomical Journal</i> , 2012, 143, 62.	4.7	74
4	Numerical predictions of surface effects during the 2029 close approach of Asteroid 99942 Apophis. <i>Icarus</i> , 2014, 242, 82-96.	2.5	68
5	Topological classifications and bifurcations of periodic orbits in the potential field of highly irregular-shaped celestial bodies. <i>Nonlinear Dynamics</i> , 2015, 81, 119-140.	5.2	46
6	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
7	Resonant orbits in the vicinity of asteroid 216 Kleopatra. <i>Astrophysics and Space Science</i> , 2013, 343, 75-82.	1.4	33
8	Order and chaos near equilibrium points in the potential of rotating highly irregular-shaped celestial bodies. <i>Nonlinear Dynamics</i> , 2016, 83, 231-252.	5.2	32
9	The Dynamical Complexity of Surface Mass Shedding from a Top-shaped Asteroid Near the Critical Spin Limit. <i>Astronomical Journal</i> , 2018, 156, 59.	4.7	29
10	Ejecta cloud from the AIDA space project kinetic impact on the secondary of a binary asteroid: II. Fates and evolutionary dependencies. <i>Icarus</i> , 2018, 312, 128-144.	2.5	27
11	Reconstructing the formation history of top-shaped asteroids from the surface boulder distribution. <i>Nature Astronomy</i> , 2021, 5, 134-138.	10.1	27
12	Numerical simulations of collisional disruption of rotating gravitational aggregates: Dependence on material properties. <i>Planetary and Space Science</i> , 2015, 107, 29-35.	1.7	25
13	Potential hop reachable domain over surfaces of small bodies. <i>Aerospace Science and Technology</i> , 2021, 112, 106600.	4.8	25
14	Numerical simulations of the controlled motion of a hopping asteroid lander on the regolith surface. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3088-3096.	4.4	24
15	A terrain-adaptive robot prototype designed for bumpy-surface exploration. <i>Mechanism and Machine Theory</i> , 2019, 141, 213-225.	4.5	22
16	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
17	Dynamic modelling and analysis of space webs. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 783-791.	5.1	20
18	Modeling of migrating grains on asteroid's surface. <i>Astrophysics and Space Science</i> , 2015, 355, 43-56.	1.4	20

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19	The Dipole Segment Model for Axisymmetrical Elongated Asteroids. <i>Astronomical Journal</i> , 2018, 155, 85.	4.7	20
20	Routing the asteroid surface vehicle with detailed mechanics. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014, 30, 301-309.	3.4	19
21	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
22	Constructing the natural families of periodic orbits near irregular bodies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 3270-3278.	4.4	15
23	Dynamical behavior of flexible net spacecraft for landing on asteroid. <i>Astrodynamics</i> , 2021, 5, 249-261.	2.4	15
24	A finite element method for computational full two-body problem: I. The mutual potential and derivatives over bilinear tetrahedron elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2019, 131, 1.	1.4	13
25	Collision-based understanding of the force law in granular impact dynamics. <i>Physical Review E</i> , 2018, 98, 012901.	2.1	12
26	The Flare and Warp of the Young Stellar Disk Traced with LAMOST DR5 OB-type Stars. <i>Astrophysical Journal</i> , 2021, 922, 80.	4.5	11
27	Small-body deflection techniques using spacecraft: Techniques in simulating the fate of ejecta. <i>Advances in Space Research</i> , 2016, 57, 1832-1846.	2.6	10
28	Asteroid surface impact sampling: dependence of the cavity morphology and collected mass on projectile shape. <i>Scientific Reports</i> , 2017, 7, 10004.	3.3	10
29	Structural analysis of rubble-pile asteroids applied to collisional evolution. <i>Astrodynamics</i> , 2017, 1, 57-69.	2.4	9
30	Physics-driven locomotion planning method for a planar closed-loop terrain-adaptive robot. <i>Mechanism and Machine Theory</i> , 2021, 162, 104353.	4.5	8
31	Generalized flyby trajectories around elongated minor celestial bodies as a rotating mass dipole. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 535-545.	3.4	7
32	A Catalog of 323 Cataclysmic Variables from LAMOST DR6. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 65.	7.7	7
33	The expansion of debris flow shed from the primary of 65803 Didymos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1057-1071.	4.4	5
34	Measuring the mechanical properties of small body regolith layers using a granular penetrometer. <i>Astrodynamics</i> , 2023, 7, 15-29.	2.4	5
35	Orbital Maneuver for a Rotating Tethered System via Tidal Forces. <i>Journal of Spacecraft and Rockets</i> , 2013, 50, 1060-1068.	1.9	3
36	Orbital Dynamics in the Gravitational Field of Small Bodies. <i>Springer Theses</i> , 2016, , .	0.1	3

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37	Sand creep motion in slow spin-up experiment: An analog of regolith migration on asteroids. <i>Physical Review E</i> , 2021, 104, L042901.	2.1	3
38	Large-scale modeling of parametric asteroid surfaces using polynomial series. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 084507.	0.4	2
39	Free-Vertex Tetrahedral Finite-Element Representation and Its Use for Estimating Density Distribution of Irregularly-Shaped Asteroids. <i>Aerospace</i> , 2021, 8, 371.	2.2	1
40	A Parametric Shape Model Applied to Tracing the Migration of the Objects Near an Asteroid. <i>Earth and Space Science</i> , 2021, 8, e2019EA001043.	2.6	0