Xiao-Feng Liu

List of Publications by Year
in descending order

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28	334	840776 11	839539 18
papers	citations	h-index	g-index

28	28	28	195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamics and control of capture of a floating rigid body by a spacecraft robotic arm. Multibody System Dynamics, 2015, 33, 315-332.	2.7	36
2	Dynamics modeling and control of a 6-DOF space robot with flexible panels for capturing a free floating target. Acta Astronautica, 2016, 128, 560-572.	3.2	33
3	Dynamics and control of space robot considering joint friction. Acta Astronautica, 2015, 111, 1-18.	3.2	29
4	Dynamics analysis of flexible space robot with joint friction. Aerospace Science and Technology, 2015, 47, 164-176.	4.8	27
5	Deployment and control of spacecraft solar array considering joint stick-slip friction. Aerospace Science and Technology, 2015, 42, 342-352.	4.8	23
6	Deployment dynamics and control of large-scale flexible solar array system with deployable mast. Advances in Space Research, 2016, 58, 1288-1302.	2.6	23
7	Active detumbling technology for high dynamic non-cooperative space targets. Multibody System Dynamics, 2019, 47, 21-41.	2.7	22
8	Contact control for grasping a non-cooperative satellite by a space robot. Multibody System Dynamics, 2020, 50, 119-141.	2.7	22
9	Deployment and control of flexible solar array system considering joint friction. Multibody System Dynamics, 2017, 39, 249-265.	2.7	18
10	Active detumbling technology for noncooperative space target with energy dissipation. Advances in Space Research, 2019, 63, 1813-1823.	2.6	16
11	Dynamics and Control of a Flexible-Link Flexible-Joint Space Robot with Joint Friction. International Journal of Aeronautical and Space Sciences, 2021, 22, 415-432.	2.0	13
12	Pose Estimation of Non-Cooperative Target Coated With MLI. IEEE Access, 2019, 7, 153958-153968.	4.2	8
13	Trajectory planning and coordination control of a space robot for detumbling a flexible tumbling target in post-capture phase. Multibody System Dynamics, 2021, 52, 281.	2.7	8
14	Capturing a Space Target Using a Flexible Space Robot. Applied Sciences (Switzerland), 2022, 12, 984.	2.5	8
15	Motion prediction of an uncontrolled space target. Advances in Space Research, 2019, 63, 496-511.	2.6	7
16	A collision control strategy for detumbling a non-cooperative spacecraft by a robotic arm. Multibody System Dynamics, 2021, 53, 225-255.	2.7	7
17	A new geometry-based secondary path planning for automatic parking. International Journal of Advanced Robotic Systems, 2020, 17, 172988142093057.	2.1	6
18	Hybrid Control Scheme for Grasping a Non-Cooperative Tumbling Satellite. IEEE Access, 2020, 8, 54963-54978.	4.2	5

#	Article	IF	Citations
19	Base attitude disturbance minimizing trajectory planning for a dual-arm space robot. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 704-721.	1.3	5
20	Pose Estimation of a Noncooperative Target Based on Monocular Visual SLAM. International Journal of Aerospace Engineering, 2019, 2019, 1-14.	0.9	4
21	Attitude evolution of a dual-liquid-filled spacecraft with internal energy dissipation. Nonlinear Dynamics, 2020, 99, 2251-2263.	5.2	4
22	Deployment and control of cable-driven flexible solar arrays. Aircraft Engineering and Aerospace Technology, 2017, 89, 835-844.	1.2	3
23	Dynamics and control of variable geometry truss manipulator. Applied Mathematics and Mechanics (English Edition), 2017, 38, 243-262.	3.6	2
24	Inertia parameter identification of anunknown captured space target. Aircraft Engineering and Aerospace Technology, 2019, 91, 1147-1155.	1.2	2
25	Inertia Parameter Identification for an Unknown Satellite in Precapture Scenario. International Journal of Aerospace Engineering, 2020, 2020, 1-18.	0.9	2
26	Detumbling a Flexible Tumbling Target Using a Space Robot in Post-capture Phase. Journal of the Astronautical Sciences, 2022, 69, 1048-1075.	1.5	1
27	Deployment Dynamics of Large-Scale Flexible Solar Arrays with Deployable Mast. International Journal of Aeronautical and Space Sciences, 2017, 18, 245-254.	2.0	0
28	A Fuel Optimization Method for The Pursuer in The Spacecraft Pursuit-Evasion Game. Journal of Computational and Nonlinear Dynamics, 2022, , .	1.2	0