Tomasz BarciÅ„ski

List of Publications by Year
in descending order

18 papers	152 citations	1937685 4 h-index	1872680 6 g-index
18 all docs	18 docs citations	18 times ranked	100 citing authors

#	Article	IF	Citations
1	Dynamic compensation of load cell response: A time-varying approach. Mechanical Systems and Signal Processing, 2008, 22, 1694-1704.	8.0	51
2	Application of a planar air-bearing microgravity simulator for demonstration of operations required for an orbital capture with a manipulator. Acta Astronautica, 2019, 155, 211-229.	3.2	33
3	Experimental investigations of thermal properties of icy lunar regolith and their influence on phase change interface movement. Planetary and Space Science, 2021, 200, 105197.	1.7	16
4	Experimental demonstration of singularity avoidance with trajectories based on the Bézier curves for free-floating manipulator. , 2013, , .		14
5	Controlled zero dynamics feedback linearization with application to free-floating redundant orbital manipulator. , 2013, , .		11
6	Numerical simulations and analytical analyses of the orbital capture manoeuvre as a part of the manipulator-equipped servicing satellite design. , 2012, , .		9
7	Analyses of a Free-Floating Manipulator Control Scheme Based on the Fixed-Base Jacobian with Spacecraft Velocity Feedback. GeoPlanet: Earth and Planetary Sciences, 2015, , 59-69.	0.2	4
8	2D Microgravity Test-Bed for the Validation of Space Robot Control Algorithms. Journal of Automation, Mobile Robotics and Intelligent Systems, 2017, 11, 95-104.	0.4	4
9	Singularities in feedback linearisation of an underactuated 3-link pendulum. , 2011, , .		2
10	Detumbling of highly non-symmetrical satellites with use of B-dot control law. , 2013, , .		2
11	Lie groups approach to space robots kinematics modelling. , 2014, , .		2
12	The prototype of space manipulator WMS LEMUR dedicated to capture tumbling satellites in on-orbit environment. , 2017, , .		2
13	Vibro-acoustic response of spacecraft instrument subjected to diffuse sound field: Numerical simulations and experimental verification. Applied Acoustics, 2021, 184, 108338.	3.3	1
14	Infinite-dimensional Sylvester equation in observers design. , 2007, , .		1
15	Simulation and Visualization of Attitude Control System Operations for BRITE-PL Satellite. GeoPlanet: Earth and Planetary Sciences, 2013, , 21-33.	0.2	0
16	Planetary penetrator electromagnetic drive design concept. , 2019, , .		0
17	Electronic box structural analyses for a space flight. , 2019, , .		0
18	Planetary penetrator control electronics design concept. , 2019, , .		0