Hirohisa Kojima

List of Publications by Year
in descending order

50	585	623188	642321
papers	citations	14 h-index	23 g-index

50	50	50	285
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Control Moment Gyro Singularity-Avoidance Steering Control Based on Singular-Surface Cost Function. Journal of Guidance, Control, and Dynamics, 2010, 33, 1442-1450.	1.6	50
2	Stability analysis of in-plane and out-of-plane periodic motions of electrodynamic tether system in inclined elliptic orbit. Acta Astronautica, 2009, 65, 477-488.	1.7	40
3	Adaptive Deflection-Limiting Control for Slewing Flexible Space Structures. Journal of Guidance, Control, and Dynamics, 2007, 30, 61-67.	1.6	39
4	Experimental study on dynamics and control of tethered satellite systems with climber. Acta Astronautica, 2011, 69, 96-108.	1.7	37
5	Spacecraft attitude maneuver using two single-gimbal control moment gyros. Acta Astronautica, 2013, 84, 88-98.	1.7	37
6	Sounding rocket experiment of bare electrodynamic tether system. Acta Astronautica, 2009, 64, 313-324.	1.7	32
7	Mission-function control of tethered satellite/climber system. Acta Astronautica, 2015, 106, 24-32.	1.7	31
8	Singularity analysis and steering control laws for adaptive-skew pyramid-type control moment gyros. Acta Astronautica, 2013, 85, 120-137.	1.7	27
9	Trajectories of in-plane periodic solutions of tethered satellite system projected on van der Pol planes. Acta Astronautica, 2011, 68, 1024-1030.	1.7	24
10	Switching delayed feedback control for an electrodynamic tether system in an inclined elliptic orbit. Acta Astronautica, 2010, 66, 1072-1080.	1.7	23
11	Study on acceptable offsets of ejected nets from debris center for successful capture of debris. Advances in Space Research, 2020, 66, 450-461.	1.2	23
12	Solar Sail Orbital Control Using Reflectivity Variations near the Earthâ€“Moon L2 Point. Journal of Guidance, Control, and Dynamics, 2018, 41, 417-430.	1.6	17
13	Experimental Verification of Periodic Libration of Tethered Satellite System in Elliptic Orbit. Journal of Guidance, Control, and Dynamics, 2011, 34, 614-618.	1.6	15
14	Nonlinear Control of a Double Pendulum Electrodynamic Tether System. Journal of Spacecraft and Rockets, 2007, 44, 280-284.	1.3	14
15	Calculation and fitting of boundaries between elliptic and hyperbolic singularities of pyramid-type control moment gyros. Acta Astronautica, 2014, 104, 33-44.	1.7	14
16	Stabilization of Angular Velocity of Asymmetrical Rigid Body Using Two Constant Torques. Journal of Guidance, Control, and Dynamics, 2007, 30, 1163-1168.	1.6	13
17	Spherical gyroscopic moment stabilizer for attitude control of microsatellites. Acta Astronautica, 2018, 143, 9-15.	1.7	11
18	Receding Horizon Control on Steering of Control Moment Gyro for Fast Attitude Maneuver. Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 52, 1-10.	0.4	10

#	Article	IF	Citations
19	Experimental Study on Delayed Feedback Control for Libration of Tethered Satellite System. Journal of Guidance, Control, and Dynamics, 2012, 35, 998-1002.	1.6	10
20	Experimental study on line-of-sight (LOS) attitude control using control moment gyros under micro-gravity environment. Acta Astronautica, 2018, 143, 118-125.	1.7	10
21	Modeling of tape tether vibration and vibration sensing using smart film sensors. Acta Astronautica, 2015, 107, 97-111.	1.7	9
22	Cluster filtering/control of bending/torsional vibrations of a tape tether using smart-film sensors/actuators. Acta Astronautica, 2016, 123, 213-226.	1.7	9
23	Input-Shaped Link Motion Control of Planar Space Robot Equipped with Flexible Appendage. Transactions of the Japan Society for Aeronautical and Space Sciences, 2012, 55, 205-213.	0.4	8
24	Frequency-tuning input-shaped manifold-based switching control for underactuated space robot equipped with flexible appendages. Acta Astronautica, 2014, 101, 42-54.	1.7	8
25	Estimation of Flyable Regions for Planetary Airships. Journal of Aircraft, 2006, 43, 1177-1181.	1.7	7
26	Libration Synchronization Control of Clustered Electrodynamic Tether System Using Kuramoto Model. Journal of Guidance, Control, and Dynamics, 2011, 34, 706-718.	1.6	7
27	Discovering Method of Control of the "Dzhanibekov's Effect" and Proposing its Applications for the Possible Future Space Missions. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 72-81.	0.1	7
28	Optimization of fault-tolerant thruster configurations for satellite control. Advances in Space Research, 2018, 61, 1617-1625.	1.2	6
29	Steering control law for double-gimbal scissored-pair CMG. Advances in Space Research, 2020, 66, 771-784.	1.2	6
30	An Adaptive Invariant Manifold-Based Switching Control for a Planar Two-Link Space Robot. Transactions of the Japan Society for Aeronautical and Space Sciences, 2011, 54, 144-152.	0.4	5
31	Model predictive steering control law for double gimbal scissored-pair control moment gyros. Acta Astronautica, 2021, 183, 273-285.	1.7	5
32	Self-position estimation using terrain shadows for precise planetary landing. Acta Astronautica, 2018, 148, 345-354.	1.7	4
33	Enhancement of the attitude dynamics capabilities of the spinning spacecraft using inertial morphing. Aeronautical Journal, 2020, 124, 838-871.	1.1	4
34	Ellipse detection-based visual servo control for capturing upper-stage rocket body. Acta Astronautica, 2021, 182, 295-309.	1.7	4
35	Multi-Objective Trajectory Optimization by a Hierarchical Gradient Algorithm with Fuzzy Decision Logic-Application to Slew Maneuver Problems of a Flexible Space Structure-. Transactions of the Japan Society for Aeronautical and Space Sciences, 2004, 47, 66-74.	0.4	3
36	LMI-Based Sliding Mode Control of an Underactuated Control Moment Gyroscope System. IFAC-PapersOnLine, 2018, 51, 291-296.	0.5	3

#	Article	IF	Citations
37	Smooth Reference Model Adaptive Sliding-Mode Control for Attitude Synchronization with a Tumbling Satellite. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2004, 47, 616-625.	0.3	2
38	Model Predictive Control for Deflection-Limiting Maneuver of Flexible Structure. Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 51, 267-274.	0.4	2
39	Stabilisation of in-plane periodic motion of electrodynamic tether system by combining tether length control and current control. International Journal of Space Science and Engineering, 2015, 3, 318.	0.1	2
40	Deployment Control of a Tethered Satellite System for Rendezvous with a Target. Transactions of the Japan Society for Aeronautical and Space Sciences, 2016, 59, 313-322.	0.4	2
41	Set-oriented design of interplanetary low-thrust trajectories using Earth Gravity Assist. Acta Astronautica, 2019, 156, 208-218.	1.7	2
42	Application of order-n formulation to panel deployment problem of a spacecraft. Journal of Guidance, Control, and Dynamics, 1994, 17, 634-636.	1.6	1
43	Adaptive Time-delay Estimated Sliding Mode Control for a Bias Momentum Satellite with Two Reaction Wheels. Transactions of the Japan Society for Aeronautical and Space Sciences, 2019, 62, 236-245.	0.4	1
44	Hâˆž Feedback-Compensated Minimum-Bending-Moment Control for Flexible Space Structures. Transactions of the Japan Society for Aeronautical and Space Sciences, 2007, 49, 254-257.	0.4	1
45	Spacecraft Attitude Maneuver using Two Single-gimbal Control Moment Gyros. , 2012, , .		0
46	LMI-based control law for variable-speed control moment gyros in flexible spacecraft. International Journal of Space Science and Engineering, 2015, 3, 246.	0.1	0
47	Libration Synchronization Control of Clustered Electrodynamic Tether System Using Kuramoto Model. , 2010, , .		0
48	Optimal Oscillation Suppression Control for Tether Sling-Shot System. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2017, 15, 21-26.	0.1	0
49	Feature-based visual servo control preserving wide-angle properties of super wide-angle lens. International Journal of Space Science and Engineering, 2017, 4, 309.	0.1	0
50	Numerical Simulation of Tape Tether Deployment from a Storage Container. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 604-612.	0.1	0