

Zheng Hong

List of Publications by Year in descending order

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196
papers

4,274
citations

101543

36
h-index

149698

56
g-index

199
all docs

199
docs citations

199
times ranked

2533
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	230
2	Modeling electrical conductivities of nanocomposites with aligned carbon nanotubes. <i>Nanotechnology</i> , 2011, 22, 485704.	2.6	122
3	Postbuckling of sandwich plates with nanotube-reinforced composite face sheets resting on elastic foundations. <i>European Journal of Mechanics, A/Solids</i> , 2012, 35, 10-21.	3.7	120
4	Carbon nanotube agglomeration effect on piezoresistivity of polymer nanocomposites. <i>Polymer</i> , 2014, 55, 5488-5499.	3.8	115
5	Anisotropic electrical conductivity of polymer composites with aligned carbon nanotubes. <i>Polymer</i> , 2015, 56, 498-506.	3.8	113
6	A novel approach to predict the electrical conductivity of multifunctional nanocomposites. <i>Mechanics of Materials</i> , 2012, 46, 129-138.	3.2	110
7	On the mechanism of piezoresistivity of carbon nanotube polymer composites. <i>Polymer</i> , 2014, 55, 4136-4149.	3.8	99
8	Fractional-Order Tension Control Law for Deployment of Space Tether System. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 2057-2062.	2.8	94
9	Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. <i>Mechanics of Materials</i> , 2013, 58, 1-11.	3.2	90
10	Position-based visual servo control of autonomous robotic manipulators. <i>Acta Astronautica</i> , 2015, 115, 291-302.	3.2	87
11	Constrained tension control of a tethered space-tug system with only length measurement. <i>Acta Astronautica</i> , 2016, 119, 110-117.	3.2	85
12	Characterization of carbon nanotube enhanced interlaminar fracture toughness of woven carbon fiber reinforced polymer composites. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 480-489.	6.7	77
13	Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	71
14	Fractional order sliding mode control for tethered satellite deployment with disturbances. <i>Advances in Space Research</i> , 2017, 59, 263-273.	2.6	71
15	Electron tunnelling and hopping effects on the temperature coefficient of resistance of carbon nanotube/polymer nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5113-5120.	2.8	70
16	Modeling electrical conductivity of nanocomposites by considering carbon nanotube deformation at nanotube junctions. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	67
17	Dynamic modeling of cable towed body using nodal position finite element method. <i>Ocean Engineering</i> , 2011, 38, 529-540.	4.3	62
18	Dynamics of Nanosatellite Deorbit by Bare Electrodynamic Tether in Low Earth Orbit. <i>Journal of Spacecraft and Rockets</i> , 2013, 50, 691-700.	1.9	57

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19	Autonomous robotic capture of non-cooperative target by adaptive extended Kalman filter based visual servo. <i>Acta Astronautica</i> , 2016, 122, 209-218.	3.2	57
20	Modeling and characterization of carbon nanotube agglomeration effect on electrical conductivity of carbon nanotube polymer composites. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	52
21	Optimal Control of Nanosatellite Fast Deorbit Using Electrodynamic Tether. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 1182-1194.	2.8	51
22	Space Tether Deployment Control with Explicit Tension Constraint and Saturation Function. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 916-921.	2.8	50
23	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	49
24	Temperature-independent piezoresistive sensors based on carbon nanotube/polymer nanocomposite. <i>Carbon</i> , 2018, 137, 188-195.	10.3	49
25	Analysis of cracks perpendicular to bimaterial interfaces using a novel finite element. <i>International Journal of Fracture</i> , 1995, 73, 1-23.	2.2	48
26	Autonomous robotic capture of non-cooperative target using visual servoing and motion predictive control. <i>Autonomous Robots</i> , 2014, 37, 157-167.	4.8	48
27	Elastodynamic Analysis of Aerial Refueling Hose Using Curved Beam Element. <i>AIAA Journal</i> , 2006, 44, 1317-1324.	2.6	46
28	Fractional order tension control for stable and fast tethered satellite retrieval. <i>Acta Astronautica</i> , 2014, 104, 304-312.	3.2	41
29	Model predictive control for spacecraft rendezvous in elliptical orbit. <i>Acta Astronautica</i> , 2018, 146, 339-348.	3.2	41
30	Investigation of electrical conductivity and electromagnetic interference shielding performance of Au@CNT/sodium alginate/polydimethylsiloxane flexible composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105762.	7.6	41
31	Long-term dynamic modeling of tethered spacecraft using nodal position finite element method and symplectic integration. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2015, 123, 363-386.	1.4	40
32	Line-of-sight nonlinear model predictive control for autonomous rendezvous in elliptical orbit. <i>Aerospace Science and Technology</i> , 2017, 69, 236-243.	4.8	40
33	Effect of carbon nanotubes on electromagnetic interference shielding of carbon fiber reinforced polymer composites. <i>Polymer Composites</i> , 2018, 39, E655.	4.6	39
34	Elastodynamic analysis of low tension cables using a new curved beam element. <i>International Journal of Solids and Structures</i> , 2006, 43, 1490-1504.	2.7	38
35	Libration dynamics and stability of electrodynamic tethers in satellite deorbit. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2013, 116, 279-298.	1.4	38
36	Prediction Interval Estimation of Aeroengine Remaining Useful Life Based on Bidirectional Long Short-Term Memory Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	4.7	38

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37	Modeling and simulation of aerial refueling by finite element method. <i>International Journal of Solids and Structures</i> , 2007, 44, 8057-8073.	2.7	37
38	Libration suppression of tethered space system with a moving climber in circular orbit. <i>Nonlinear Dynamics</i> , 2018, 91, 923-937.	5.2	37
39	Timescale Separate Optimal Control of Tethered Space-Tug Systems for Space-Debris Removal. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2540-2545.	2.8	35
40	Model Predictive Control with Output Feedback for a Deorbiting Electrodynamic Tether System. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2455-2460.	2.8	34
41	Three-Dimensional High-Fidelity Dynamic Modeling of Tether Transportation System with Multiple Climbers. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 1797-1811.	2.8	34
42	Nonlinear FE-based investigation of flexural damping of slacking wire cables. <i>International Journal of Solids and Structures</i> , 2007, 44, 5122-5132.	2.7	33
43	Reflection and refraction of plane waves at interface between two piezoelectric media. <i>Acta Mechanica</i> , 2012, 223, 2509-2521.	2.1	32
44	Libration and transverse dynamic stability control of flexible bare electrodynamic tether systems in satellite deorbit. <i>Aerospace Science and Technology</i> , 2016, 49, 112-129.	4.8	32
45	Vibration analysis of a new curved beam element. <i>Journal of Sound and Vibration</i> , 2008, 309, 86-95.	3.9	30
46	Giant piezoresistivity in aligned carbon nanotube nanocomposite: account for nanotube structural distortion at crossed tunnel junctions. <i>Nanoscale</i> , 2015, 7, 1339-1348.	5.6	30
47	Incremental inverse kinematics based vision servo for autonomous robotic capture of non-cooperative space debris. <i>Advances in Space Research</i> , 2016, 57, 1508-1514.	2.6	30
48	A percolation network model to predict the electrical property of flexible CNT/PDMS composite films fabricated by spin coating technique. <i>Composites Part B: Engineering</i> , 2019, 174, 107034.	12.0	30
49	Libration Control of Bare Electrodynamic Tethers Considering Elastic-Thermal-Electrical Coupling. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 642-654.	2.8	29
50	Effect of temperature on the electrical property of epoxy composites with carbon nanotube. <i>Composites Science and Technology</i> , 2017, 149, 48-54.	7.8	29
51	A virtual experiment for partial space elevator using a novel high-fidelity FE model. <i>Nonlinear Dynamics</i> , 2019, 95, 2717-2727.	5.2	28
52	Adaptive learning observer for spacecraft attitude control with actuator fault. <i>Aerospace Science and Technology</i> , 2021, 108, 106389.	4.8	28
53	State dependent model predictive control for orbital rendezvous using pulse-width pulse-frequency modulated thrusters. <i>Advances in Space Research</i> , 2016, 58, 64-73.	2.6	27
54	Multiphysics elastodynamic finite element analysis of space debris deorbit stability and efficiency by electrodynamic tethers. <i>Acta Astronautica</i> , 2017, 137, 320-333.	3.2	27

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55	Characteristics of coupled orbital-attitude dynamics of flexible electric solar wind sail. <i>Acta Astronautica</i> , 2019, 159, 593-608.	3.2	27
56	Prescribed performance slide mode guidance law with terminal line-of-sight angle constraint against maneuvering targets. <i>Nonlinear Dynamics</i> , 2017, 88, 2101-2110.	5.2	24
57	Dynamics and control of de-spinning giant asteroids by small tethered spacecraft. <i>Aerospace Science and Technology</i> , 2019, 94, 105394.	4.8	24
58	Dynamic Predictive Maintenance Scheduling Using Deep Learning Ensemble for System Health Prognostics. <i>IEEE Sensors Journal</i> , 2021, 21, 26878-26891.	4.7	24
59	A novel finite element for treating inhomogeneous solids. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 1579-1592.	2.8	22
60	Optimal Current Switching Control of Electrodynamic Tethers for Fast Deorbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 1501-1511.	2.8	22
61	Tension control of space tether via online quasi-linearization iterations. <i>Advances in Space Research</i> , 2016, 57, 754-763.	2.6	22
62	On libration suppression of partial space elevator with a moving climber. <i>Nonlinear Dynamics</i> , 2019, 97, 2107-2125.	5.2	22
63	Long-Term Libration Dynamics and Stability Analysis of Electrodynamic Tethers in Spacecraft Deorbit. <i>Journal of Aerospace Engineering</i> , 2014, 27, 04014020.	1.4	20
64	Stable orbital transfer of partial space elevator by tether deployment and retrieval. <i>Acta Astronautica</i> , 2018, 152, 624-629.	3.2	20
65	Dynamics and control of tethered multi-satellites in elliptic orbits. <i>Aerospace Science and Technology</i> , 2019, 91, 41-48.	4.8	20
66	Mass Ratio of Electrodynamic Tether to Spacecraft on Deorbit Stability and Efficiency. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2192-2198.	2.8	19
67	Adaptive sliding mode disturbance observer-based control for rendezvous with non-cooperative spacecraft. <i>Acta Astronautica</i> , 2021, 183, 59-74.	3.2	19
68	Data-driven predictive maintenance strategy considering the uncertainty in remaining useful life prediction. <i>Neurocomputing</i> , 2022, 494, 79-88.	5.9	19
69	Long term dynamics and optimal control of nano-satellite deorbit using a short electrodynamic tether. <i>Advances in Space Research</i> , 2013, 52, 1530-1544.	2.6	18
70	High temperature response capability in carbon nanotube/polymer nanocomposites. <i>Composites Science and Technology</i> , 2018, 167, 563-570.	7.8	18
71	A unified energy-based control framework for tethered spacecraft deployment. <i>Nonlinear Dynamics</i> , 2019, 95, 1117-1131.	5.2	18
72	Analytical and Experimental Investigation of Stabilizing Rotating Uncooperative Target by Tethered Space Tug. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021, 57, 2426-2437.	4.7	18

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73	Deorbiting Dynamics of Electrodynamical Tether. <i>International Journal of Aerospace and Lightweight Structures (IJALS)</i> , 2011, 01, 47.	0.1	18
74	Dynamics and operation optimization of partial space elevator with multiple climbers. <i>Advances in Space Research</i> , 2019, 63, 3213-3222.	2.6	17
75	Attitude Stabilization of Towed Space Target by Thrust Regulation in Orbital Transfer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 373-383.	5.8	17
76	Flight Dynamics and Control Strategy of Electric Solar Wind Sails. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 462-474.	2.8	17
77	Dynamic modeling of cable system using a new nodal position finite element method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 692-704.	2.1	16
78	Compressive and thermal postbuckling behaviors of laminated plates with piezoelectric fiber reinforced composite actuators. <i>Applied Mathematical Modelling</i> , 2011, 35, 1829-1845.	4.2	16
79	Kinematics-based incremental visual servo for robotic capture of non-cooperative target. <i>Robotics and Autonomous Systems</i> , 2019, 112, 221-228.	5.1	16
80	Automatic orbital maneuver for mega-constellations maintenance with electrodynamic tethers. <i>Aerospace Science and Technology</i> , 2020, 105, 105910.	4.8	16
81	Effect of nano-scale Cu particles on the electrical property of CNT/polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 143, 106325.	7.6	16
82	Parallel Optimization of Trajectory Planning and Tracking for Three-Body Tethered Space System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 240-247.	5.8	15
83	Rigid-flexible coupling effect on attitude dynamics of electric solar wind sail. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105663.	3.3	15
84	Piezoresistive Strain Sensors Based on Carbon Nanotube Networks: Contemporary approaches related to electrical conductivity. <i>IEEE Nanotechnology Magazine</i> , 2015, 9, 11-23.	1.3	14
85	Predictive visual servo kinematic control for autonomous robotic capture of non-cooperative space target. <i>Acta Astronautica</i> , 2018, 151, 173-181.	3.2	14
86	Fractional-order sliding mode control for deployment of tethered spacecraft system. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 4721-4734.	1.3	14
87	Analysis of thrust-induced sail plane coning and attitude motion of electric sail. <i>Acta Astronautica</i> , 2021, 178, 129-142.	3.2	14
88	A novel looped space tether transportation system with multiple climbers for high efficiency. <i>Acta Astronautica</i> , 2021, 179, 253-265.	3.2	14
89	Dual quaternion-based adaptive iterative learning control for flexible spacecraft rendezvous. <i>Acta Astronautica</i> , 2021, 189, 99-118.	3.2	14
90	Dynamics and control of three-body tethered system in large elliptic orbits. <i>Acta Astronautica</i> , 2018, 144, 397-404.	3.2	13

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91	Orbital boost characteristics of spacecraft by electrodynamic tethers with consideration of electric-magnetic-dynamic energy coupling. <i>Acta Astronautica</i> , 2020, 171, 196-207.	3.2	13
92	Exponentially Convergent Velocity Observer for an Electrodynamic Tether in an Elliptical Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 1113-1118.	2.8	12
93	Precise Analysis of Deorbiting by Electrodynamic Tethers Using Coupled Multiphysics Finite Elements. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3348-3357.	2.8	12
94	Reduction of Libration Angle in Electrodynamic Tether Deployment by Lorentz Force. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 164-169.	2.8	12
95	Dynamics and de-spin control of massive target by single tethered space tug. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 653-659.	5.3	12
96	Optimized energy harvesting through piezoelectric functionally graded cantilever beams. <i>Smart Materials and Structures</i> , 2019, 28, 025038.	3.5	12
97	Fault-Tolerant Reduced-Attitude Control for Spacecraft Constrained Boresight Reorientation. <i>Journal of Guidance, Control, and Dynamics</i> , 2022, 45, 1481-1495.	2.8	12
98	Fractional-Order Dynamics and Control of Rigid-Flexible Coupling Space Structures. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 1324-1330.	2.8	11
99	Hybrid Cooperative Guidance Law for Active Aircraft Defense Against a Guided Missile. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 535-541.	2.8	11
100	Deployment control of tethered space systems with explicit velocity constraint and invariance principle. <i>Acta Astronautica</i> , 2019, 157, 390-396.	3.2	11
101	A high accurate hamiltonian nodal position finite element method for spatial cable structures undergoing long-term large overall motion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 70, 203-222.	3.3	11
102	PLSD: A Perceptually Accurate Line Segment Detection Approach. <i>IEEE Access</i> , 2020, 8, 42595-42607.	4.2	11
103	Flexoelectric energy harvesters utilizing controllably wrinkled micro-dielectric film. <i>Energy</i> , 2021, 224, 120056.	8.8	11
104	Stable cargo transportation of partial space elevator with multiple actuators. <i>Advances in Space Research</i> , 2021, 68, 2999-3011.	2.6	11
105	Stability and control of radial deployment of electric solar wind sail. <i>Nonlinear Dynamics</i> , 2021, 103, 481-501.	5.2	11
106	Fatigue Life Estimation of Helicopter Landing Probe Based on Dynamic Simulation. <i>Journal of Aircraft</i> , 2009, 46, 1533-1543.	2.4	10
107	WAVE REFLECTION IN PIEZOELECTRIC HALF-PLANE. <i>International Journal of Applied Mechanics</i> , 2013, 05, 1350014.	2.2	10
108	Relative State and Inertia Estimation of Unknown Tumbling Spacecraft by Stereo Vision. <i>IEEE Access</i> , 2018, 6, 54126-54138.	4.2	10

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109	De-Spin of Massive Rotating Space Object by Tethered Space Tug. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2463-2469.	2.8	10
110	Stress distribution in dissimilar materials containing inhomogeneities near the interface using a novel finite element. <i>Finite Elements in Analysis and Design</i> , 1995, 20, 283-298.	3.2	9
111	ANALYSIS OF THREE-DIMENSIONAL LOCKING-FREE CURVED BEAM ELEMENT. <i>International Journal of Computational Engineering Science</i> , 2004, 05, 535-556.	0.1	9
112	A free-standing space elevator structure: A practical alternative to the space tether. <i>Acta Astronautica</i> , 2009, 65, 365-375.	3.2	9
113	Incremental visual servo control of robotic manipulator for autonomous capture of non-cooperative target. <i>Advanced Robotics</i> , 2016, 30, 1458-1465.	1.8	9
114	Multiphysics Finite Element Modeling of Current Generation of Bare Flexible Electrodynamic Tether. <i>Journal of Propulsion and Power</i> , 2017, 33, 408-419.	2.2	9
115	Electrical characterization of flexible CNT/polydimethylsiloxane composite films with finite thickness. <i>Carbon</i> , 2019, 154, 439-447.	10.3	9
116	Barrier function based finite-time tracking control for a class of uncertain nonlinear systems with input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 83-100.	3.7	9
117	On the thermoelastic stresses of multiple interacting inhomogeneities. <i>International Journal of Solids and Structures</i> , 2000, 37, 2313-2330.	2.7	8
118	Energy-based Output Feedback Tension Control for Space Tether Deployment under Physical Constraint. , 2018, , .		8
119	Two-Dimensional Continuous Terminal Interception Guidance Law With Predefined Convergence Performance. <i>IEEE Access</i> , 2018, 6, 46771-46780.	4.2	8
120	Pose and motion estimation of unknown tumbling spacecraft using stereoscopic vision. <i>Advances in Space Research</i> , 2018, 62, 359-369.	2.6	8
121	Model predictive control for electrodynamic tether geometric profile in orbital maneuvering with finite element state estimator. <i>Nonlinear Dynamics</i> , 2021, 106, 473-489.	5.2	8
122	Dynamic multiscale simulation of towed cable and body. , 2003, , 800-803.		8
123	The Potential of Ultrasonic Non-Destructive Measurement of Residual Stresses by Modal Frequency Spacing using Leaky Lamb Waves. <i>Experimental Mechanics</i> , 2012, 52, 1329-1339.	2.0	7
124	Scalable approximate policies for Markov decision process models of hospital elective admissions. <i>Artificial Intelligence in Medicine</i> , 2014, 61, 21-34.	6.5	7
125	Fast Nonsingular Terminal Sliding Mode to Attenuate the Chattering for Missile Interception with Finite Time Convergence. <i>IFAC-PapersOnLine</i> , 2016, 49, 34-39.	0.9	7
126	Hamiltonian Nodal Position Finite Element Method for Cable Dynamics. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750109.	2.2	7

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127	Multisensor Parallel Largest Ellipsoid Distributed Data Fusion with Unknown Cross-Covariances. <i>Sensors</i> , 2017, 17, 1526.	3.8	7
128	Wrinkling of flexoelectric nano-film/substrate systems. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 075309.	2.8	7
129	Prescribed performance based dual-loop control strategy for configuration keeping of partial space elevator in cargo transportation. <i>Acta Astronautica</i> , 2021, 189, 241-249.	3.2	7
130	Micromechanics of interfacial thermal stresses in fiber reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 196-203.	7.6	6
131	Consistent element coupling in nonlinear static and dynamic analyses using explicit solvers. <i>International Journal of Mechanics and Materials in Design</i> , 2010, 6, 319-330.	3.0	6
132	A nodal position finite element method for plane elastic problems. <i>Finite Elements in Analysis and Design</i> , 2011, 47, 73-77.	3.2	6
133	Stress Evaluation Using Ultrasonic Interference Spectrum of Leaky Lamb Waves. <i>Experimental Mechanics</i> , 2011, 51, 971-980.	2.0	6
134	Libration suppression of partial space elevator by controlling climber attitude using reaction wheel. <i>Acta Astronautica</i> , 2021, 183, 126-133.	3.2	6
135	Validation of CubeSat tether deployment system by ground and parabolic flight testing. <i>Acta Astronautica</i> , 2021, 185, 299-307.	3.2	6
136	Dynamic characterization and sail angle control of electric solar wind sail by high-fidelity tether dynamics. <i>Acta Astronautica</i> , 2021, 189, 504-513.	3.2	6
137	A new looped tether transportation system with multiple rungs. <i>Acta Astronautica</i> , 2021, 189, 687-698.	3.2	6
138	Attitude Control and Stability Analysis of Electric Sail. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2022, 58, 5560-5570.	4.7	6
139	Dynamic robot manipulator trajectory planning for obstacle avoidance. <i>Mechanics Research Communications</i> , 1999, 26, 139-144.	1.8	5
140	Dynamic control of space tether deployment. <i>International Journal of Space Science and Engineering</i> , 2015, 3, 113.	0.1	5
141	Space Tether Deployment with Explicit Non-Overshooting Length and Positive Velocity Constraints. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3313-3318.	2.8	5
142	Estimation of flexible space tether state based on end measurement by finite element Kalman filter state estimator. <i>Advances in Space Research</i> , 2021, 67, 3282-3293.	2.6	5
143	Fuzzy-based continuous current control of electrodynamic tethers for stable and efficient orbital boost. <i>Aerospace Science and Technology</i> , 2021, 118, 106999.	4.8	5
144	POSITION-BASED VISUAL SERVOING IN ROBOTIC CAPTURE OF MOVING TARGET ENHANCED BY KALMAN FILTER. <i>International Journal of Robotics and Automation</i> , 2015, 30, .	0.1	5

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145	Polymer nanocomposite for space applications. , 2014, , .		4
146	Vision-based Pose and Motion Estimation of Non-cooperative Target for Space Robotic Manipulators. , 2014, , .		4
147	Development of autonomous robot for space servicing. , 2010, , .		3
148	Optimal trajectory design of a deorbiting electrodynamic tether system. International Journal of Space Science and Engineering, 2013, 1, 128.	0.1	3
149	Mission Design for a CubeSat Deorbit Experiment Using an Electrodynamic Tether. , 2016, , .		3
150	Development of an Air-Bearing Inclined Turntable for Testing Tether Deployment. , 2016, , .		3
151	Eliminating common biases in modelling the electrical conductivity of carbon nanotube-polymer nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 13118-13121.	2.8	3
152	Parameter influence on electron collection efficiency of a bare electrodynamic tether. Science China Information Sciences, 2018, 61, 1.	4.3	3
153	Space tether deployment with explicit maximum libration angle constraint and tension disturbance. Advances in Space Research, 2018, 62, 1853-1862.	2.6	3
154	Libration suppression of moon-based partial space elevator in cargo transportation. Acta Astronautica, 2020, 177, 96-102.	3.2	3
155	Dynamic Stability Analysis of Aerial Refueling Hose/Drogue System by Finite Element Method. , 2008, , .		2
156	Characterization of Electrical Conductivity of Carbon Nanotube Composites. , 2014, , .		2
157	Ground based testing of space tether deployment using an air bearing inclined turntable. International Journal of Space Science and Engineering, 2016, 4, 1.	0.1	2
158	DESCENT: Mission Architecture and Design Overview. , 2017, , .		2
159	Hamiltonian formulation and energy-based control for space tethered system deployment and retrieval. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 463-470.	0.8	2
160	Interfacial Thermal Stresses in Fiber Reinforced Composites. Mechanics of Advanced Materials and Structures, 2012, 19, 233-240.	2.6	1
161	Dynamics of Deorbiting of Low Earth Orbit Nano-satellites by Bare Electrodynamic Tether. , 2012, , .		1
162	A generalized enriched finite element method for blunt cracks. Finite Elements in Analysis and Design, 2012, 56, 1-8.	3.2	1

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163	Experimental investigation of inflated multiple-beam structures for future space tower. International Journal of Space Science and Engineering, 2013, 1, 82.	0.1	1
164	Modeling sensor behavior of CNT/polymer nanocomposite. , 2014, , .		1
165	Fractional Order Control of Tethered Satellite System Deployment and Retrieval. , 2014, , .		1
166	Impact of Atmospheric Perturbation on Dynamics of Space Tether Systems. , 2015, , .		1
167	Autonomous Robotic Capture of Non-cooperative Target by Vision-based Kinematic Control. , 2015, , .		1
168	Implementation of three DoFs small satellite ground simulation system. , 2016, , .		1
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