Nai-Ming Qi

List of Publications by Year
in descending order

35 papers	374 citations	933264 10 h-index	839398 18 g-index
35 all docs	35 docs citations	35 times ranked	242 citing authors

#	Article	IF	Citations
1	Hysteresis and creep modeling and compensation for a piezoelectric actuator using a fractional-order Maxwell resistive capacitor approach. Smart Materials and Structures, 2013, 22, 115020.	1.8	63
2	Electric sail trajectory design with Bezier curve-based shaping approach. Aerospace Science and Technology, 2019, 88, 126-135.	2.5	40
3	A Distributed Parameter Maxwell-Slip Model for the Hysteresis in Piezoelectric Actuators. IEEE Transactions on Industrial Electronics, 2019, 66, 7150-7158.	5.2	33
4	Initial Trajectory Design of Electric Solar Wind Sail Based on Finite Fourier Series Shape-Based Method. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3674-3683.	2.6	27
5	Evasion and pursuit guidance law against defended target. Chinese Journal of Aeronautics, 2017, 30, 1958-1973.	2.8	24
6	Bounded curvature path planning with expected length for Dubins vehicle entering target manifold. Robotics and Autonomous Systems, 2017, 97, 217-229.	3.0	19
7	Coupled Attitude-Orbit Dynamics and Control for an Electric Sail in a Heliocentric Transfer Mission. PLoS ONE, 2015, 10, e0125901.	1.1	18
8	Differential game strategy in three-player evasion and pursuit scenarios. Journal of Systems Engineering and Electronics, 2018, 29, 352-366.	1.1	13
9	Logic-Based Guidance Law for Interceptor Missiles Steered by Aerodynamic Lift and Divert Thruster. IEEE Transactions on Control Systems Technology, 2011, 19, 884-890.	3.2	11
10	An optimal one-way cooperative strategy for two defenders against an attacking missile. Chinese Journal of Aeronautics, 2017, 30, 1506-1518.	2.8	11
11	Spacecraft Propellant Sloshing Suppression Using Input Shaping Technique. , 2009, , .		10
12	Curvature-Bounded Lengthening and Shortening for Restricted Vehicle Path Planning. IEEE Transactions on Automation Science and Engineering, 2020, 17, 15-28.	3.4	10
13	Fast initial design of low-thrust multiple gravity-assist three-dimensional trajectories based on the Bezier shape-based method. Acta Astronautica, 2021, 178, 233-240.	1.7	10
14	Fast Cooperative Trajectory Optimization for Close-Range Satellite Formation Using Bezier Shape-Based Method. IEEE Access, 2020, 8, 30918-30927.	2.6	9
15	Mission Analysis for Vesta and Ceres Exploration Using Electric Sail With Classical and Advanced Thrust Models. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2796-2804.	2.6	8
16	The Coupled Orbit-Attitude Dynamics and Control of Electric Sail in Displaced Solar Orbits. International Journal of Aerospace Engineering, 2017, 2017, 1-12.	0.5	7
17	Fast costate estimation for indirect trajectory optimization using Bezier-curve-based shaping approach. Aerospace Science and Technology, 2022, 126, 107582.	2.5	7
18	Rapid optimization of continuous trajectory for multi-target exploration propelled by electric sails. Aerospace Science and Technology, 2022, 129, 107678.	2.5	7

#	Article	IF	Citations
19	Initial Three-Dimensional Trajectory Design for Solar Sails Using Bezier Shaping Approach. IEEE Access, 2019, 7, 150842-150850.	2.6	6
20	A simplified backstepping sliding mode controller based on adaptive control for BTT missiles. , 2009, , .		5
21	Displaced Electric Sail Orbits Design and Transition Trajectory Optimization. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	5
22	Initial design of low-thrust trajectories based on the Bezier curve-based shaping approach. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 1825-1835.	0.7	5
23	Evasion-Pursuit Strategy against Defended Aircraft Based on Differential Game Theory. International Journal of Aerospace Engineering, 2019, 2019, 1-12.	0.5	4
24	Fast Cooperative Trajectory Generation of Unmanned Aerial Vehicles Using a Bezier Curve-Based Shaping Method. IEEE Access, 2022, 10, 1626-1636.	2.6	4
25	Effects of Divert-Thrusters on Homing Performance of Endo-atmospheric Interceptors. Journal of Optimization Theory and Applications, 2013, 156, 345-364.	0.8	3
26	A Finite-Memory Discretization Algorithm for the Distributed Parameter Maxwell-Slip Model. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1138-1142.	3.7	3
27	Hybrid Model Based on Maxwell-Slip Model and Relevance Vector Machine. IEEE Transactions on Industrial Electronics, 2021, 68, 10050-10057.	5.2	3
28	Fast Trajectory Generation and Asteroid Sequence Selection in Multispacecraft for Multiasteroid Exploration. IEEE Transactions on Cybernetics, 2022, 52, 6071-6082.	6.2	3
29	Fast cooperative angular trajectory planning for multiple on-orbit service spacecraft based on the Bezier shape-based method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 2426-2435.	0.7	2
30	Optimal Geometry for Cable Wrapping to Minimize Dynamic Impacts on Cable-Harnessed Beam Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.0	2
31	Interceptor guidance law based on relative heading error angle. , 2009, , .		1
32	Bounded Differential Game Guidance Law for Interceptor with Second-Order Maneuvering Dynamics. , 2011, , .		1
33	Mechanical analogy of propellant sloshing using finite element structural codes. , 2009, , .		0
34	Capture condition for endo-atmospheric interceptors steered by ALCS and ARCS. Control Theory and Technology, 2014, 12, 56-67.	1.0	0
35	Trajectory optimization for Ceres exploration using electric solar wind sail with a refined thrust model. , 2017, , .		0