Wanchun Chen

List of Publications by Year
in descending order

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		759233	752698
41	445	12	20
papers	citations	h-index	g-index

41	41	41	150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entry guidance with real-time planning of reference based on analytical solutions. Advances in Space Research, 2015, 55, 2325-2345.	2.6	54
2	Application of linear gauss pseudospectral method in model predictive control. Acta Astronautica, 2014, 96, 175-187.	3.2	40
3	Autonomous entry guidance using Linear Pseudospectral Model Predictive Control. Aerospace Science and Technology, 2018, 80, 38-55.	4.8	33
4	Analytical entry guidance for coordinated flight with multiple no-fly-zone constraints. Aerospace Science and Technology, 2019, 84, 273-290.	4.8	32
5	Guidance law with circular no-fly zone constraint. Nonlinear Dynamics, 2014, 78, 1953-1971.	5.2	24
6	Entry guidance for high-L/D hypersonic vehicle based on drag-vs-energy profile. ISA Transactions, 2018, 83, 176-188.	5.7	21
7	Steady Glide Dynamic Modeling and Trajectory Optimization for High Lift-to-Drag Ratio Reentry Vehicle. International Journal of Aerospace Engineering, 2016, 2016, 1-14.	0.9	19
8	Robust entry guidance using multi-segment linear pseudospectral model predictive control. Journal of Systems Engineering and Electronics, 2017, 28, 103-125.	2.2	19
9	Analytical entry guidance based on pseudo-aerodynamic profiles. Aerospace Science and Technology, 2017, 66, 315-331.	4.8	17
10	Trajectory-Shaping Guidance with final speed and load factor constraints. ISA Transactions, 2015, 56, 42-52.	5.7	15
11	Three-Dimensional Impact Time and Angle Control Guidance Based on MPSP. International Journal of Aerospace Engineering, 2019, 2019, 1-16.	0.9	13
12	Omnidirectional autonomous entry guidance based on 3-D analytical glide formulas. ISA Transactions, 2016, 65, 487-503.	5.7	12
13	Bounds for integration matrices that arise in Gauss and Radau collocation. Computational Optimization and Applications, 2019, 74, 259-273.	1.6	12
14	Analytical cooperative entry guidance for Rendezvous and formation flight. Acta Astronautica, 2020, 171, 118-138.	3.2	12
15	Analytical solutions to three-dimensional hypersonic gliding trajectory over rotating Earth. Acta Astronautica, 2021, 179, 702-716.	3.2	12
16	High-Accuracy Approximate Solutions for Hypersonic Gliding Trajectory With Large Lateral Maneuvering Range. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1498-1512.	4.7	11
17	Optimal terminal guidance for exoatmospheric interception. Chinese Journal of Aeronautics, 2016, 29, 1052-1064.	5.3	9
18	Multistage Linear Gauss Pseudospectral Method for Piecewise Continuous Nonlinear Optimal Control Problems. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2298-2310.	4.7	9

#	Article	IF	Citations
19	Entry Guidance With No-Fly Zone Avoidance Using Linear Pseudospectral Model Predictive Control. IEEE Access, 2019, 7, 98589-98602.	4.2	8
20	Pseudospectral Model Predictive Control for Exo-atmospheric Guidance. International Journal of Aeronautical and Space Sciences, 2015, 16, 64-76.	2.0	8
21	Analytical Solutions to Aeroassisted Orbital Transfer Problem. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3502-3515.	4.7	7
22	Entry Guidance Based on Analytical Trajectory Solutions. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 2438-2466.	4.7	7
23	Optimal midcourse guidance law for the exo-atmospheric interceptor with solid-propellant booster. Aerospace Science and Technology, 2022, 127, 107670.	4.8	7
24	Optimal Midcourse Guidance Algorithm for Exoatmospheric Interception Using Analytical Gradients. International Journal of Aerospace Engineering, 2019, 2019, 1-17.	0.9	6
25	Analytical solutions for longitudinal-plane motion of hypersonic skip-glide trajectory. Nonlinear Dynamics, 2019, 96, 1947-1969.	5.2	6
26	Gradient method using pseudospectral collocation scheme for two-stage optimal control with an unspecified switching time. International Journal of Control, 2021, 94, 1201-1216.	1.9	6
27	Analytical trajectory prediction for near-first-cosmic-velocity atmospheric gliding using a perturbation method. Acta Astronautica, 2021, 187, 79-88.	3.2	6
28	Suboptimal Impact-Angle-Constrained Guidance Law Using Linear Pseudospectral Model Predictive Spread Control. IEEE Access, 2020, 8, 102040-102050.	4.2	5
29	State estimation of spiral maneuvering target and simulation of three-dimensional intercept. , 2011, , .		2
30	Monocular visual based obstacle distance estimation method for ultra-low altitude flight. , 2019, , .		2
31	Optimal perturbation guidance with constraints on terminal flight-path angle and angle of attack. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 4436-4446.	1.3	2
32	Gradient Method for Solving Multisystem Integrated Optimal Control Problem With Undetermined Terminal Time. IEEE Systems Journal, 2021, 15, 1917-1928.	4.6	2
33	Successive Chebyshev pseudospectral convex optimization method for nonlinear optimal control problems. International Journal of Robust and Nonlinear Control, 0, , .	3.7	2
34	Endoatmospheric Ascent Optimal Guidance with Analytical Nonlinear Trajectory Prediction. International Journal of Aerospace Engineering, 2022, 2022, 1-26.	0.9	2
35	Analytical trajectory solutions for atmospheric pull-up phase of interplanetary return flight. Acta Astronautica, 2022, 193, 311-323.	3.2	2
36	Hypersonic vehicle trajectory design based on optimal control theory. , 2006, 6358, 539.		1

#	Article	IF	Citations
37	The control system of hypersonic missile using state-dependent Riccati equation. , 2006, 6358, 515.		0
38	Quasi-equilibrium glide trajectory design of waverider-based hypersonic vehicle. , 2010, , .		0
39	An Intercept Guidance Law with Impact-Angle-Constrained Based on Linear Gauss Pseudospectral Model Predictive Control. , 2019, , .		0
40	Cooperative Optimal Guidance Law with Simultaneous Attack and Impact Angle Constraint Using Linear Pseudospectral Model Predictive Control. , 2021, , .		0
41	Development of Distributed MDO Platform for Missile Integrated Design Analysis System. , 2009, , .		0