

Bailing Tian

List of Publications by Year in descending order

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2,780
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236833

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docs citations

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times ranked

1683
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Fixed-Time Consensus Tracking for Multiagent Systems With High-Order Integrator Dynamics. IEEE Transactions on Automatic Control, 2018, 63, 563-570. | 3.6 | 499 |
| 2 | Multivariable Finite Time Attitude Control for Quadrotor UAV: Theory and Experimentation. IEEE Transactions on Industrial Electronics, 2018, 65, 2567-2577. | 5.2 | 213 |
| 3 | Robust adaptive dynamic surface control design for a flexible air-breathing hypersonic vehicle with input constraints and uncertainty. Nonlinear Dynamics, 2014, 78, 289-315. | 2.7 | 151 |
| 4 | Real-Time Trajectory and Attitude Coordination Control for Reusable Launch Vehicle in Reentry Phase. IEEE Transactions on Industrial Electronics, 2015, 62, 1639-1650. | 5.2 | 140 |
| 5 | Finite-Time Reentry Attitude Control Based on Adaptive Multivariable Disturbance Compensation. IEEE Transactions on Industrial Electronics, 2015, 62, 5889-5898. | 5.2 | 134 |
| 6 | Adaptive Finite-Time Attitude Tracking of Quadrotors With Experiments and Comparisons. IEEE Transactions on Industrial Electronics, 2019, 66, 9428-9438. | 5.2 | 125 |
| 7 | Continuous high order sliding mode controller design for a flexible air-breathing hypersonic vehicle. ISA Transactions, 2014, 53, 690-698. | 3.1 | 107 |
| 8 | Leader-follower fixed-time consensus of multi-agent systems with high-order integrator dynamics. International Journal of Control, 2017, 90, 1420-1427. | 1.2 | 106 |
| 9 | Quasi-continuous high-order sliding mode controller and observer design for flexible hypersonic vehicle. Aerospace Science and Technology, 2013, 27, 127-137. | 2.5 | 103 |
| 10 | Neural network disturbance observer-based distributed finite-time formation tracking control for multiple unmanned helicopters. ISA Transactions, 2018, 73, 208-226. | 3.1 | 98 |
| 11 | Distributed Consensus Observer for Multiagent Systems With High-Order Integrator Dynamics. IEEE Transactions on Automatic Control, 2020, 65, 1771-1778. | 3.6 | 93 |
| 12 | Multivariable finite-time output feedback trajectory tracking control of quadrotor helicopters. International Journal of Robust and Nonlinear Control, 2018, 28, 281-295. | 2.1 | 72 |
| 13 | Fixed-time stabilization of high-order integrator systems with mismatched disturbances. Nonlinear Dynamics, 2018, 94, 2889-2899. | 2.7 | 64 |
| 14 | Integrated guidance and control for reusable launch vehicle in reentry phase. Nonlinear Dynamics, 2015, 80, 397-412. | 2.7 | 53 |
| 15 | Adaptive disturbance observer-based finite-time continuous fault-tolerant control for reentry RLV. International Journal of Robust and Nonlinear Control, 2017, 27, 4275-4295. | 2.1 | 50 |
| 16 | Fuzzy Disturbance Observer-Based Adaptive Sliding Mode Control for Reusable Launch Vehicles With Aeroservoelastic Characteristic. IEEE Transactions on Industrial Informatics, 2020, 16, 1214-1223. | 7.2 | 44 |
| 17 | Output-Redefinition-Based Dynamic Inversion Control for a Nonminimum Phase Hypersonic Vehicle. IEEE Transactions on Industrial Electronics, 2018, 65, 3447-3457. | 5.2 | 43 |
| 18 | Attitude Control of UAVs Based on Event-Triggered Supertwisting Algorithm. IEEE Transactions on Industrial Informatics, 2021, 17, 1029-1038. | 7.2 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Robust Fixed-Time Stabilization Control of Generic Linear Systems With Mismatched Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 759-768. | 5.9 | 39 |
| 20 | Adaptive-gain multivariable super-twisting sliding mode control for reentry RLV with torque perturbation. International Journal of Robust and Nonlinear Control, 2017, 27, 620-638. | 2.1 | 37 |
| 21 | Comprehensive design of disturbance observer and non-singular terminal sliding mode control for reusable launch vehicles. IET Control Theory and Applications, 2015, 9, 1821-1830. | 1.2 | 36 |
| 22 | Finite-time fully distributed formation reconfiguration control for UAV helicopters. International Journal of Robust and Nonlinear Control, 2018, 28, 5943-5961. | 2.1 | 34 |
| 23 | Control-oriented modeling and adaptive backstepping control for a nonminimum phase hypersonic vehicle. ISA Transactions, 2017, 70, 161-172. | 3.1 | 31 |
| 24 | Flight control for a flexible air-breathing hypersonic vehicle based on quasi-continuous high-order sliding mode. Journal of Systems Engineering and Electronics, 2013, 24, 288-295. | 1.1 | 28 |
| 25 | Super twisting sliding mode control for a flexible air-breathing hypersonic vehicle based on disturbance observer. Science China Information Sciences, 2015, 58, 1-15. | 2.7 | 26 |
| 26 | Adaptive finite-time reconfiguration control of unmanned aerial vehicles with a moving leader. Nonlinear Dynamics, 2019, 95, 1099-1116. | 2.7 | 24 |
| 27 | Robust Adaptive Approximate Backstepping Control Design for a Flexible Air-Breathing Hypersonic Vehicle. Journal of Aerospace Engineering, 2015, 28, . | 0.8 | 22 |
| 28 | Disturbance observer-based sliding mode backstepping control for a re-entry vehicle with input constraint and external disturbance. Transactions of the Institute of Measurement and Control, 2016, 38, 165-181. | 1.1 | 22 |
| 29 | A Continuous Finite-Time Output Feedback Control Scheme and Its Application in Quadrotor UAVs. IEEE Access, 2018, 6, 19807-19813. | 2.6 | 22 |
| 30 | Comprehensive design of uniform robust exact disturbance observer and fixed-time controller for reusable launch vehicles. IET Control Theory and Applications, 2018, 12, 638-648. | 1.2 | 22 |
| 31 | Finite-time fault-tolerant formation control for multi-quadrotor systems with actuator fault. International Journal of Robust and Nonlinear Control, 2018, 28, 5386-5405. | 2.1 | 21 |
| 32 | Distributed finite-time formation control for multiple quadrotors via local communications. International Journal of Robust and Nonlinear Control, 2019, 29, 5588-5608. | 2.1 | 18 |
| 33 | Reentry attitude control for a reusable launch vehicle with aeroservoelastic model using type-2 adaptive fuzzy sliding mode control. International Journal of Robust and Nonlinear Control, 2018, 28, 5858-5875. | 2.1 | 15 |
| 34 | Anti-Windup Robust Backstepping Control for an Underactuated Reusable Launch Vehicle. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1492-1502. | 5.9 | 15 |
| 35 | Multiple-time scale smooth second order sliding mode controller design for flexible hypersonic vehicles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 781-791. | 0.7 | 14 |
| 36 | Continuous robust fault-tolerant control and vibration suppression for flexible spacecraft without angular velocity. International Journal of Robust and Nonlinear Control, 2019, 29, 3915-3935. | 2.1 | 14 |

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|----|--|-----|-----------|
| 37 | Disturbance Observer-Based Active Vibration Suppression and Attitude Control for Flexible Spacecraft. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 893-901. | 5.9 | 14 |
| 38 | An Intensity-Augmented LiDAR-Inertial SLAM for Solid-State LiDARs in Degenerated Environments. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10. | 2.4 | 12 |
| 39 | Finite-Time Distributed Attitude Synchronization for Multiple Spacecraft With Angular Velocity and Input Constraints. IEEE Transactions on Control Systems Technology, 2022, 30, 1612-1624. | 3.2 | 11 |
| 40 | Finite-time output feedback attitude synchronization for multiple spacecraft. Transactions of the Institute of Measurement and Control, 2018, 40, 3023-3039. | 1.1 | 10 |
| 41 | Input-to-state-stability modular command filtered back-stepping attitude control of a generic reentry vehicle. International Journal of Control, Automation and Systems, 2013, 11, 734-741. | 1.6 | 9 |
| 42 | Nonsingular terminal sliding mode control for reusable launch vehicle with atmospheric disturbances. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2019-2033. | 0.7 | 9 |
| 43 | Disturbance observer-based fault-tolerant attitude tracking control for rigid spacecraft with finite-time convergence. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 616-628. | 0.7 | 9 |
| 44 | Trajectory Optimization and Finite-Time Control for Unmanned Helicopters Formation. IEEE Access, 2019, 7, 93023-93034. | 2.6 | 8 |
| 45 | Adaptive tracking and command shaped vibration control of flexible spacecraft. IET Control Theory and Applications, 2019, 13, 1121-1128. | 1.2 | 8 |
| 46 | Adaptive Multivariable Reentry Attitude Control of RLV With Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6674-6678. | 5.9 | 8 |
| 47 | Adaptive High Order Sliding Mode Controller Design for Hypersonic Vehicle with Flexible Body Dynamics. Mathematical Problems in Engineering, 2013, 2013, 1-11. | 0.6 | 7 |
| 48 | Fixed-time stabilization of second-order uncertain multivariable nonlinear systems. , 2016, , . | | 7 |
| 49 | UAV Autonomous Trajectory Planning in Target Tracking Tasks via a DQN Approach. , 2019, , . | | 7 |
| 50 | Reentry Attitude Control for RLV Based on Adaptive Event-Triggered Sliding Mode. IEEE Access, 2019, 7, 68429-68435. | 2.6 | 6 |
| 51 | Adaptive multivariable finite-time continuous fault-tolerant control of rigid spacecraft. International Journal of Robust and Nonlinear Control, 2019, 29, 2927-2940. | 2.1 | 6 |
| 52 | Nash network formation among unmanned aerial vehicles. Wireless Networks, 2020, 26, 1781-1793. | 2.0 | 6 |
| 53 | Fixed-time distributed event-triggered formation control with state-dependent threshold. International Journal of Robust and Nonlinear Control, 2022, 32, 1209-1228. | 2.1 | 6 |
| 54 | A Continuous Multivariable Finite-Time Control Scheme for Double Integrator Systems With Bounded Control Input. IEEE Transactions on Automatic Control, 2022, 67, 6068-6073. | 3.6 | 6 |

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|----|---|-----|-----------|
| 55 | Fixed-time re-entry attitude control based on nonsingular terminal sliding mode. IMA Journal of Mathematical Control and Information, 2018, 35, 1043-1059. | 1.1 | 5 |
| 56 | Finite-time attitude tracking control and vibration suppression for flexible spacecraft. International Journal of Robust and Nonlinear Control, 2021, 31, 2674-2689. | 2.1 | 5 |
| 57 | Event-Based Robust Optimal Consensus Control for Nonlinear Multiagent System With Local Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1073-1086. | 7.2 | 5 |
| 58 | Ascent Phase Trajectory Optimization for Vehicle with Restricted Space. Transactions of the Japan Society for Aeronautical and Space Sciences, 2011, 54, 37-43. | 0.4 | 4 |
| 59 | 3DOF ascent phase trajectory optimization for aircraft based on adaptive Gauss Pseudospectral Method. , 2012, , . | | 4 |
| 60 | Adaptive high order sliding mode controller design for hypersonic vehicle. , 2013, , . | | 4 |
| 61 | Loosely-coupled lidar-inertial odometry and mapping in real time. International Journal of Intelligent Robotics and Applications, 2021, 5, 119-129. | 1.6 | 4 |
| 62 | Flight control for hypersonic vehicle based on quasi-continuous integral high-order sliding mode. , 2012, , . | | 3 |
| 63 | Adaptive Multivariable Super-Twisting Sliding Mode Controller and Disturbance Observer Design for Hypersonic Vehicle. Mathematical Problems in Engineering, 2016, 2016, 1-9. | 0.6 | 3 |
| 64 | Ultra-wideband and Visual Odometry Based Relative Localization for Multi-UAV System. , 2020, , . | | 3 |
| 65 | Network Formation Game for Routing in Unmanned Aerial Vehicle Networks. , 2018, , . | | 2 |
| 66 | A Line/Plane Feature-based Lidar Inertial Odometry and Mapping. , 2019, , . | | 2 |
| 67 | Tightly-coupled Lidar-inertial Odometry and Mapping in Real Time. , 2020, , . | | 2 |
| 68 | A Parallel Mapping and Planning Strategy for Micro Aerial Vehicle. Research on World Agricultural Economy, 2022, 02, . | 0.8 | 2 |
| 69 | Hypersonic Vehicle control based on integral sliding mode method. , 2012, , . | | 1 |
| 70 | A Semi-dense Direct Visual Inertial Odometry for State Estimator. , 2019, , . | | 1 |
| 71 | State Estimate and Control for Multi-rotors UAV: Theory and Experimentation. , 2019, , . | | 1 |
| 72 | Trajectory Tracking Control for a generic Hypersonic Flight Vehicle Under Event-triggered Mechanism. , 2019, , . | | 1 |

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|----|---|-----|-----------|
| 73 | Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3159-3167. | 5.9 | 1 |
| 74 | PID Controller Design Based on BPNN for Helicopter Vibration Attenuation. , 2021, , . | | 1 |
| 75 | Ascent phase trajectory optimization for aircraft based on Nonlinear Programming. , 2010, , . | | 0 |
| 76 | Adaptive multivariable finite-time reentry attitude control for RLV. , 2017, , . | | 0 |
| 77 | Control for MIMO Systems with No Relative Degree: Output Redefinition versus Dynamic Extension. , 2018, , . | | 0 |
| 78 | An Online Calibration 2-DoF Attitude and Height State Estimator. , 2020, , . | | 0 |