

# Xuechao Duan

## List of Publications by Year in descending order

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26  
papers

286  
citations

933447

10  
h-index

940533

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g-index

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all docs

26  
docs citations

26  
times ranked

234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-Term Power Load Forecasting Method Based on Improved Exponential Smoothing Grey Model. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-11.	1.1	59
2	Jacobian analysis of a long-span cable-driven manipulator and its application to forward solution. <i>Mechanism and Machine Theory</i> , 2010, 45, 1227-1238.	4.5	25
3	Workspace Classification and Quantification Calculations of Cable-Driven Parallel Robots. <i>Advances in Mechanical Engineering</i> , 2014, 6, 358727.	1.6	22
4	Modeling and Analysis of a 2-DOF Spherical Parallel Manipulator. <i>Sensors</i> , 2016, 16, 1485.	3.8	21
5	Calibration and Motion Control of a Cable-Driven Parallel Manipulator Based Triple-Level Spatial Positioner. <i>Advances in Mechanical Engineering</i> , 2014, 6, 368018.	1.6	19
6	Robust Loop Closure Detection Integrating Visual Spatial Semantic Information via Topological Graphs and CNN Features. <i>Remote Sensing</i> , 2020, 12, 3890.	4.0	18
7	Motion prediction and supervisory control of the macro-micro parallel manipulator system. <i>Robotica</i> , 2011, 29, 1005-1015.	1.9	16
8	The Application Research of Inverse Finite Element Method for Frame Deformation Estimation. <i>International Journal of Aerospace Engineering</i> , 2017, 2017, 1-8.	0.9	14
9	On the mechatronic servo bandwidth of a stewart platform for active vibration isolating in a super antenna. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 40, 66-77.	9.9	12
10	Design and DOF Analysis of a Novel Compliant Parallel Mechanism for Large Load. <i>Sensors</i> , 2019, 19, 828.	3.8	11
11	Dynamic Analysis and Vibration Attenuation of Cable-Driven Parallel Manipulators for Large Workspace Applications. <i>Advances in Mechanical Engineering</i> , 2013, 5, 361585.	1.6	9
12	Adaptive Interactive PID Supervisory Control of the Macro-micro Parallel Manipulator. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2010, 46, 10.	0.5	8
13	Improved Extreme Learning Machine Based UWB Positioning for Mobile Robots with Signal Interference. <i>Machines</i> , 2022, 10, 218.	2.2	8
14	Topology optimization of pretensioned reflector antennas with unified cable-bar model. <i>Acta Astronautica</i> , 2018, 152, 872-879.	3.2	7
15	Optimization of the workspace of a MEMS hexapod nanopositioner using an adaptive genetic algorithm. , 2014, , .		6
16	An Improved Robust Method for Pose Estimation of Cylindrical Parts with Interference Features. <i>Sensors</i> , 2019, 19, 2234.	3.8	6
17	Investigation of compact packing strategy for large rigid-panel deployable antennas. <i>Mechanism and Machine Theory</i> , 2022, 176, 104930.	4.5	6
18	Vibration Isolation and Trajectory Following Control of a Cable Suspended Stewart Platform. <i>Machines</i> , 2016, 4, 20.	2.2	5

#	ARTICLE	IF	CITATIONS
19	Modeling and Control of the Redundant Parallel Adjustment Mechanism on a Deployable Antenna Panel. <i>Sensors</i> , 2016, 16, 1632.	3.8	4
20	Real-time motion planning for the macro-micro parallel manipulator system. , 2011, , .		3
21	Nonlinear PD Control of a Long-Span Cable-Supporting Manipulator in Quasi-Static Motion. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012, 134, .	1.6	3
22	Complete real solution of the five-orientation motion generation problem for a spherical four-bar linkage. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2015, 28, 258-266.	3.7	3
23	Supervisory control of a macro-micro parallel manipulator system. , 2010, , .		1
24	A Novel Online Self-Structuring Fuzzy Control Algorithm and Its Application. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	1.1	0
25	A large-stroke compliant jointâ€‘based force/displacement integrated sensor. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401562290.	1.6	0
26	Principal Component Weighted Grey Relational Analysis Method for Power Load Characteristic Forecasting. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 222-229.	0.4	0