

Liang Ding

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

1,822
citations

23
h-index

36
g-index

175
ext. papers

2,360
ext. citations

3.8
avg. IF

5.25
L-index

#	Paper	IF	Citations
152	Dual-User Haptic Teleoperation of Complementary Motions of a Redundant Wheeled Mobile Manipulator Considering Task Priority. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-13	7.3	2
151	A 2-year locomotive exploration and scientific investigation of the lunar farside by the Yutu-2 rover.. <i>Science Robotics</i> , 2022 , 7, eabj6660	18.6	1
150	Velocity following control of a pseudo-driven wheel for reducing internal forces between wheels. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	0
149	Teleoperation of wheeled mobile robots subject to longitudinal slipping and lateral sliding by time-domain passivity controller. <i>Mechatronics</i> , 2022 , 81, 102705	3	1
148	Estimation of interaction forces with minimal parameters for rigid wheels on deformable terrain using modified Hooke's law. <i>Mechanism and Machine Theory</i> , 2022 , 169, 104663	4	0
147	Contact Sequence Planning for Hexapod Robots in Sparse Foothold Environment Based on Monte-Carlo Tree. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 826-833	4.2	4
146	Suppression in any configuration : A versatile coupling improved multi-objective manipulation framework for modular active vibration isolation system. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108478	7.8	0
145	Human-Robot Variable Impedance Skills Transfer Learning Based on Dynamic Movement Primitives. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	1
144	Pressing and Rubbing: Physics-Informed Features Facilitate Haptic Terrain Classification for Legged Robots.. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	2
143	Wheel Slip Ratio and Sinkage Estimation for Planetary Rovers Moving on Deformable Terrain. <i>Journal of Physics: Conference Series</i> , 2022 , 2203, 012046	0.3	
142	Surface characteristics of the Zhurong Mars rover traverse at Utopia Planitia. <i>Nature Geoscience</i> , 2022 , 15, 171-176	18.3	3
141	Tension distribution algorithm based on graphics with high computational efficiency and robust optimization for two-redundant cable-driven parallel robots. <i>Mechanism and Machine Theory</i> , 2022 , 172, 104739	4	2
140	High-Fidelity Dynamic Modeling and Simulation of Planetary Rovers Using Single-Input-Multi-Output Joints With Terrain Property Mapping. <i>IEEE Transactions on Robotics</i> , 2022 , 1-10	6.5	1
139	VDC-based admittance control of multi-DOF manipulators considering joint flexibility via hierarchical control framework. <i>Control Engineering Practice</i> , 2022 , 124, 105186	3.9	0
138	Teleoperation of Wheeled Mobile Robot With Dynamic Longitudinal Slippage. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-15	4.8	
137	Intelligent assistance for older adults via an admittance-controlled wheeled mobile manipulator with task-dependent end-effectors. <i>Mechatronics</i> , 2022 , 85, 102821	3	1
136	Human-Robot Collaboration for Heavy Object Manipulation: Kinesthetic Teaching of the Role of Wheeled Mobile Manipulator 2021 ,		1

135	Direct method for tension feasible region calculation in multi-redundant cable-driven parallel robots using computational geometry. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104225	4	2
134	An admittance-controlled wheeled mobile manipulator for mobility assistance: Human-robot interaction estimation and redundancy resolution for enhanced force exertion ability. <i>Mechatronics</i> , 2021 , 74, 102497	3	9
133	In-situ wheel sinkage estimation under high slip conditions for grouser-wheeled planetary rovers: Another immobility index. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104243	4	1
132	Slippage-Dependent Teleoperation of Wheeled Mobile Robots on Soft Terrains. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4962-4969	4.2	3
131	Payload-agnostic decoupling and hybrid vibration isolation control for a maglev platform with redundant actuation. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 106985	7.8	4
130	Simultaneous control of trajectory tracking and coordinated allocation of rocker-bogie planetary rovers. <i>Mechanical Systems and Signal Processing</i> , 2021 , 151, 107312	7.8	2
129	Fast neural network control of a pseudo-driven wheel on deformable terrain. <i>Mechanical Systems and Signal Processing</i> , 2021 , 152, 107478	7.8	2
128	Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 3293-3303	7.3	3
127	Adaptive Neural Network-Based Finite-Time Online Optimal Tracking Control of the Nonlinear System With Dead Zone. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 382-392	10.2	35
126	Adaptive fuzzy control for a hybrid spacecraft system with spatial motion and communication constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	0
125	Dual-Master/Single-Slave Haptic Teleoperation System for Semiautonomous Bilateral Control of Hexapod Robot Subject to Deformable Rough Terrain. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-15	7.3	4
124	Footstep Planning for Hexapod Robots Based on 3D Quasi-static Equilibrium Support Region. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	1
123	Linear Expressions of Drawbar Pull and Driving Torque for Grouser-Wheeled Planetary Rovers Without Terrain Mechanical Parameters. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 8197-8204	4.2	1
122	Enhancing kinematic accuracy of redundant wheeled mobile manipulators via adaptive motion planning. <i>Mechatronics</i> , 2021 , 79, 102639	3	1
121	Fault-Tolerant Tripod Gait Planning and Verification of a Hexapod Robot. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2959	2.6	4
120	Adaptive Fuzzy Finite-Time Tracking Control for Nonstrict Full States Constrained Nonlinear System With Coupled Dead-Zone Input. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	6
119	Minimizing the Energy Consumption for a Hexapod Robot Based on Optimal Force Distribution. <i>IEEE Access</i> , 2020 , 8, 5393-5406	3.5	8
118	Optimal-switched extended H _∞ filter for nonlinear systems with stochastic uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 2850-2870	3.6	2

117	Sagittal SLIP-anchored task space control for a monopode robot traversing irregular terrain. <i>Frontiers of Mechanical Engineering</i> , 2020 , 15, 193-208	3.3	1
116	Definition and Application of Variable Resistance Coefficient for Wheeled Mobile Robots on Deformable Terrain. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 894-909	6.5	41
115	Integration and Scheduling of Core Modules. <i>Research on Intelligent Manufacturing</i> , 2020 , 105-141	0.3	
114	Adaptive NN-based finite-time tracking control for wheeled mobile robots with time-varying full state constraints. <i>Neurocomputing</i> , 2020 , 403, 421-430	5.4	8
113	In-situ evaluation of terrain mechanical parameters and wheel-terrain interactions using wheel-terrain contact mechanics for wheeled planetary rovers. <i>Mechanism and Machine Theory</i> , 2020 , 145, 103696	4	8
112	Wheels' performance of Mars exploration rovers: Experimental study from the perspective of terramechanics and structural mechanics. <i>Journal of Terramechanics</i> , 2020 , 92, 23-42	2.2	4
111	High slip wheel-terrain contact modelling for grouser-wheeled planetary rovers traversing on sandy terrains. <i>Mechanism and Machine Theory</i> , 2020 , 153, 104032	4	6
110	Improved Terzaghi-theory-based interaction modeling of rotary robotic locomotors with granular substrates. <i>Mechanism and Machine Theory</i> , 2020 , 152, 103901	4	1
109	. <i>IEEE Access</i> , 2020 , 8, 155477-155491	3.5	1
108	Enhancement of Force Exertion Capability of a Mobile Manipulator by Kinematic Reconfiguration. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5842-5849	4.2	8
107	Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 336-347	7.3	24
106	Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 4171-4182	7.3	6
105	Brain-Inspired Intelligence and Visual Perception. <i>Research on Intelligent Manufacturing</i> , 2020 ,	0.3	7
104	Neural Cognitive Computing Mechanisms. <i>Research on Intelligent Manufacturing</i> , 2020 , 69-103	0.3	
103	ADP-Based Online Tracking Control of Partially Uncertain Time-Delayed Nonlinear System and Application to Wheeled Mobile Robots. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3182-3194	10.2	20
102	Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 2512-2523	7.3	52
101	Research on feature extraction and segmentation of rover wheel imprint. <i>Journal of Supercomputing</i> , 2020 , 76, 2357-2373	2.5	2
100	Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-11	7.3	11

99	. <i>IEEE Access</i> , 2019 , 7, 91582-91592	3.5	5
98	Scale effect mechanism research of insect-imitating hexapod robot. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 2873-2882	1.6	3
97	Unknown geometrical constraints estimation and trajectory planning for robotic door-opening task with visual teleoperation assists. <i>Assembly Automation</i> , 2019 , 39, 479-488	2.1	8
96	System integration and control design of a maglev platform for space vibration isolation. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 1720-1736	2	13
95	A novel localization approach for underwater welding vehicles in spent fuel pools via attitude heading reference system and altimeters. <i>International Journal of Advanced Robotic Systems</i> , 2019 , 16, 172988141983054	1.4	
94	A new local path planning approach based on improved dual covariant Hamiltonian optimization for motion planning method. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401985100	1.2	0
93	Semi-autonomous bilateral teleoperation of six-wheeled mobile robot on soft terrains. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106234	7.8	8
92	Trajectory Tracking Control for WMRs with the Time-Varying Longitudinal Slippage Based on a New Adaptive SMC Method. <i>International Journal of Aerospace Engineering</i> , 2019 , 2019, 1-13	0.9	1
91	A new optimization-driven path planning method with probabilistic completeness for wheeled mobile robots. <i>Measurement and Control</i> , 2019 , 52, 317-325	1.5	1
90	Dynamic Modeling and Experimental Validation of Door-Opening Process by a Mobile Manipulator. <i>IEEE Access</i> , 2019 , 7, 80916-80927	3.5	3
89	A Local Dynamic Path Planning Approach for WMRs Based on Fuzzy Dual CHOMP 2019 ,		2
88	Closed-Form Equations and Experimental Verification for Soft Robot Arm Based on Cosserat Theory* 2019 ,		1
87	Centroid variability modelBased control of HITUWV for automatic underwater welding with enhanced stability and accuracy. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401989021	1.2	
86	Online estimation of terrain parameters and resistance force based on equivalent sinkage for planetary rovers in longitudinal skid. <i>Mechanical Systems and Signal Processing</i> , 2019 , 119, 39-54	7.8	12
85	Low Impact Force and Energy Consumption Motion Planning for Hexapod Robot with Passive Compliant Ankles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 94, 349-370	2.9	15
84	. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 1-1	6.8	6
83	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 352-363	5.5	13
82	Adaptive neural network tracking control-based reinforcement learning for wheeled mobile robots with skidding and slipping. <i>Neurocomputing</i> , 2018 , 283, 20-30	5.4	42

81	MPC motion planning-based sliding mode control for underactuated WPS vehicle via Olfati transformation. <i>IET Control Theory and Applications</i> , 2018 , 12, 495-503	2.5	6
80	Trajectory tracking control of wheeled mobile manipulator based on fuzzy neural network and extended Kalman filtering. <i>Neural Computing and Applications</i> , 2018 , 30, 447-462	4.8	17
79	Robust adaptive control of door opening by a mobile rescue manipulator based on unknown-force-related constraints estimation. <i>Robotica</i> , 2018 , 36, 119-140	2.1	12
78	A novel bilateral haptic teleoperation approach for hexapod robot walking and manipulating with legs. <i>Robotics and Autonomous Systems</i> , 2018 , 108, 1-12	3.5	4
77	State estimation of a heavy-duty hexapod robot with passive compliant ankles based on the leg kinematics and IMU data fusion. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 3885-3897	1.6	4
76	A new iterative synthetic data generation method for CNN based stroke gesture recognition. <i>Multimedia Tools and Applications</i> , 2018 , 77, 17181-17205	2.5	2
75	A multi-mode real-time terrain parameter estimation method for wheeled motion control of mobile robots. <i>Mechanical Systems and Signal Processing</i> , 2018 , 104, 758-775	7.8	17
74	Semi-Autonomous Bilateral Teleoperation of Hexapod Robot Based on Haptic Force Feedback. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 91, 583-602	2.9	6
73	Optimal Energy Consumption for Mobile Manipulators Executing Door-Opening Task. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-11	1.1	3
72	Neural Network Identification of a Racing Car Tire Model. <i>Journal of Engineering (United States)</i> , 2018 , 2018, 1-11	1.5	5
71	Static Force Analysis of Foot of Electrically Driven Heavy-Duty Six-Legged Robot under Tripod Gait. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018 , 31,	2.5	3
70	Design and terramechanics analysis of a Mars rover utilising active suspension. <i>Mechanism and Machine Theory</i> , 2018 , 128, 125-149	4	22
69	Trajectory tracking control of WMRs with lateral and longitudinal slippage based on active disturbance rejection control. <i>Robotics and Autonomous Systems</i> , 2018 , 107, 236-245	3.5	19
68	Diagonal recurrent neural networks for parameters identification of terrain based on wheel/soil interaction analysis. <i>Neural Computing and Applications</i> , 2017 , 28, 797-804	4.8	5
67	Linear normal stress under a wheel in skid for wheeled mobile robots running on sandy terrain. <i>Journal of Terramechanics</i> , 2017 , 70, 49-57	2.2	15
66	Terramechanics-based modeling of sinkage and moment for in-situ steering wheels of mobile robots on deformable terrain. <i>Mechanism and Machine Theory</i> , 2017 , 116, 14-33	4	17
65	Adaptive Neural Network-Based Tracking Control for Full-State Constrained Wheeled Mobile Robotic System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2410-2419	7.3	65
64	Sinkage definition and visual detection for planetary rovers wheels on rough terrain based on wheel/soil interaction boundary. <i>Robotics and Autonomous Systems</i> , 2017 , 98, 222-240	3.5	9

63	Design and control of a novel six-DOF maglev platform for positioning and vibration isolation 2017 ,		1
62	Tracking control of WMRs on loose soil based on mixed H ₂ / H _∞ control with longitudinal slip ratio estimation. <i>Acta Astronautica</i> , 2017 , 140, 49-58	2.9	7
61	Longitudinal skid model for wheels of planetary rovers based on improved wheel sinkage considering soil bulldozing effect. <i>Journal of Terramechanics</i> , 2017 , 74, 45-56	2.2	6
60	Kinematic Bilateral Teledriving of Wheeled Mobile Robots Coupled With Slippage. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2147-2157	8.9	29
59	Robust Stabilization of a Wheeled Mobile Robot Using Model Predictive Control Based on Neurodynamics Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 505-516	8.9	77
58	An omnidirectional mobile operating robot based on mecanum wheel 2017 ,		3
57	Hydrodynamic calculation and analysis of a complex-shaped underwater robot based on computational fluid dynamics and prototype test. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401773450	1.2	8
56	2016 ,		2
55	Dynamic analysis of a cable underwater robot in a nuclear reaction pool 2016 ,		1
54	Switch control for operating constrained mechanisms using a rescuing mobile manipulator with multiple working modes 2016 ,		2
53	Gait Generation With Smooth Transition Using CPG-Based Locomotion Control for Hexapod Walking Robot. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5488-5500	8.9	30
52	Locally supervised neural networks for approximating terramechanics models. <i>Mechanical Systems and Signal Processing</i> , 2016 , 75, 57-74	7.8	4
51	Enhancement of tensile strength of embedded parts in carbon fiber-reinforced plastic/aluminum honeycomb sandwich structures for vehicle. <i>Composite Structures</i> , 2016 , 152, 800-806	5.3	7
50	Trilateral Predictor-Mediated Teleoperation of a Wheeled Mobile Robot With Slippage. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 738-745	4.2	11
49	Kinematic bilateral teleoperation of wheeled mobile robots subject to longitudinal slippage. <i>IET Control Theory and Applications</i> , 2016 , 10, 111-118	2.5	12
48	Attitude-based dynamic and kinematic models for wheels of mobile robot on deformable slope. <i>Robotics and Autonomous Systems</i> , 2016 , 75, 161-175	3.5	5
47	Efficient force distribution algorithm for hexapod robot walking on uneven terrain 2016 ,		2
46	Bond strength between carbon fiber-reinforced plastic tubes and aluminum joints for racing car suspension. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401667462	1.2	6

45	A real-time, high fidelity dynamic simulation platform for hexapod robots on soft terrain. <i>Simulation Modelling Practice and Theory</i> , 2016 , 68, 125-145	3.9	9
44	Optimal-Switched H _∞ Robust Tracking for Maneuvering Space Target. <i>IFAC-PapersOnLine</i> , 2016 , 49, 415-419	1.7	3
43	Optimized control for longitudinal slip ratio with reduced energy consumption. <i>Acta Astronautica</i> , 2015 , 115, 1-17	2.9	12
42	Study of space micro-vibration active isolation platform acceleration measurement 2015 ,		1
41	Three-layer intelligence of planetary exploration wheeled mobile robots: Robint, virtint, and humint. <i>Science China Technological Sciences</i> , 2015 , 58, 1299-1317	3.5	10
40	Identifying mechanical property parameters of planetary soil using in-situ data obtained from exploration rovers. <i>Planetary and Space Science</i> , 2015 , 119, 121-136	2	10
39	Motion planning and simulation verification of a hydraulic hexapod robot based on reducing energy/flow consumption. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 4427-4436	1.6	14
38	Interaction Mechanics Model for Rigid Driving Wheels of Planetary Rovers Moving on Sandy Terrain with Consideration of Multiple Physical Effects. <i>Journal of Field Robotics</i> , 2015 , 32, 827-859	6.7	53
37	Measurement Model and Precision Analysis of Accelerometers for Maglev Vibration Isolation Platforms. <i>Sensors</i> , 2015 , 15, 20053-68	3.8	8
36	Dynamic Modeling and Vibration Analysis for the Vehicles with Rigid Wheels Based on Wheel-Terrain Interaction Mechanics. <i>Shock and Vibration</i> , 2015 , 2015, 1-9	1.1	0
35	Approach to imitate maneuvering of lunar roving vehicle under lunar gravity using a terrestrial vehicle. <i>Mechatronics</i> , 2015 , 30, 383-398	3	5
34	Effect of size and shape of joining insert on the strength of sandwich-structured laminate panels for wheeled vehicle body. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 1823-1832	2.9	3
33	Turning gait planning and simulation validation of a hydraulic hexapod robot 2015 ,		4
32	Improved explicit-form equations for estimating dynamic wheel sinkage and compaction resistance on deformable terrain. <i>Mechanism and Machine Theory</i> , 2015 , 86, 235-264	4	33
31	Longitudinal Skid Experimental Investigation for Wheels of Planetary Exploration Rovers. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2015 , 51, 99	1.3	11
30	A review of heavy-duty legged robots. <i>Science China Technological Sciences</i> , 2014 , 57, 298-314	3.5	30
29	Design of Underwater Welding Robot Used in Nuclear Plant. <i>Key Engineering Materials</i> , 2014 , 620, 484-489	1.4	3
28	Error-Tolerant Switched Robust Extended Kalman Filter With Application to Parameter Estimation of Wheel-Soil Interaction. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1448-1460	4.8	20

27	Soil parameter modification used for boosting predictive fidelity of planetary rover's slippage. <i>Journal of Terramechanics</i> , 2014 , 56, 173-184	2.2	5
26	Adaptive motion control of wheeled mobile robot with unknown slippage. <i>International Journal of Control</i> , 2014 , 87, 1513-1522	1.5	38
25	New perspective on characterizing pressure-linkage relationship of terrains for estimating interaction mechanics. <i>Journal of Terramechanics</i> , 2014 , 52, 57-76	2.2	27
24	Parametric Design and Multiobjective Optimization of Maglev Actuators for Active Vibration Isolation System. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 215358	1.2	10
23	Path-following control of wheeled planetary exploration robots moving on deformable rough terrain. <i>Scientific World Journal, The</i> , 2014 , 2014, 793526	2.2	6
22	Analysis of driving efficiency for LRV wheels using forced-slip method. <i>Advances in Space Research</i> , 2014 , 54, 2122-2130	2.4	6
21	ROSTDyn: Rover simulation based on terramechanics and dynamics. <i>Journal of Terramechanics</i> , 2013 , 50, 199-210	2.2	19
20	The globally asymptotic stability analysis for a class of recurrent neural networks with delays. <i>Neural Computing and Applications</i> , 2013 , 22, 587-595	4.8	7
19	Method for analyzing articulated torques of heavy-duty six-legged robot. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2013 , 26, 801-812	2.5	10
18	New conditions for global exponential stability of continuous-time neural networks with delays. <i>Neural Computing and Applications</i> , 2013 , 22, 41-48	4.8	9
17	Longitudinal skid model for wheels of planetary exploration rovers based on terramechanics. <i>Journal of Terramechanics</i> , 2013 , 50, 327-343	2.2	26
16	Trilateral Teleoperation of Adaptive Fuzzy Force/Motion Control for Nonlinear Teleoperators With Communication Random Delays. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 610-624	8.3	109
15	Foot-terrain interaction mechanics for legged robots: Modeling and experimental validation. <i>International Journal of Robotics Research</i> , 2013 , 32, 1585-1606	5.7	74
14	Experimental study and analysis of the wheels-steering mechanics for planetary exploration wheeled mobile robots moving on deformable terrain. <i>International Journal of Robotics Research</i> , 2013 , 32, 712-743	5.7	27
13	A method for on-line soil parameters modification to planetary rover simulation. <i>Journal of Terramechanics</i> , 2012 , 49, 325-339	2.2	9
12	Adaptive Sliding Mode Control of Mobile Manipulators with Markovian Switching Joints. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-24	1.1	11
11	Transmission Mode Research on the Joints of a Multi-Legged Walking Robot. <i>Applied Mechanics and Materials</i> , 2012 , 151, 518-522	0.3	5
10	Planetary rovers-wheel-soil interaction mechanics: new challenges and applications for wheeled mobile robots. <i>Intelligent Service Robotics</i> , 2011 , 4, 17-38	2.6	36

9	Experimental study and analysis on driving wheels performance for planetary exploration rovers moving in deformable soil. <i>Journal of Terramechanics</i> , 2011 , 48, 27-45	2.2	134
8	Algorithm analysis for a rover simulation platform 2011 ,		2
7	Terramechanics-based high-fidelity dynamics simulation for wheeled mobile robot on deformable rough terrain 2010 ,		3
6	2010 ,		4
5	Wheel slip-sinkage and its prediction model of lunar rover. <i>Central South University</i> , 2010 , 17, 129-135		57
4	Slip ratio for lugged wheel of planetary rover in deformable soil: definition and estimation 2009 ,		25
3	Parameter identification for planetary soil based on a decoupled analytical wheel-soil interaction terramechanics model 2009 ,		28
2	Terramechanics Model for Wheel-terrain Interaction of Lunar Rover Based on Stress Distribution. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2009 , 45, 49	1.3	9
1	Design of Comprehensive High-fidelity/High-speed Virtual Simulation System for Lunar Rover 2008 ,		8