Dapeng Yang

List of Publications by Citations

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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.

94 papers	1,177 citations	21 h-index	31 g-index
112 ext. papers	1,501 ext. citations	2.9 avg, IF	4.63 L-index

#	Paper	IF	Citations
94	An anthropomorphic robot hand developed based on underactuated mechanism and controlled by EMG signals. *Journal of Bionic Engineering*, **2009**, 6, 255-263	2.7	97
93	Combined Use of FSR Sensor Array and SVM Classifier for Finger Motion Recognition Based on Pressure Distribution Map. *Journal of Bionic Engineering*, **2012**, 9, 39-47	2.7	77
92	Switching-State Phase Shift Method for Three-Phase-Current Reconstruction With a Single DC-Link Current Sensor. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 5186-5194	8.9	69
91	Robust EMG pattern recognition in the presence of confounding factors: features, classifiers and adaptive learning. *Expert Systems With Applications*, **2018**, 96, 208-217	7.8	68
90	Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. *IEEE Sensors Journal*, **2013**, 13, 510-518	4	53
89	Classification of Multiple Finger Motions During Dynamic Upper Limb Movements. *IEEE Journal of Biomedical and Health Informatics*, **2017**, 21, 134-141	7.2	41
88	Fingertip Three-Axis Tactile Sensor for Multifingered Grasping. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 1875-1885	5.5	36
87	The Mechanical Design and Experiments of HIT/DLR Prosthetic Hand **2006**,		34
86	DYNAMIC HAND MOTION RECOGNITION BASED ON TRANSIENT AND STEADY-STATE EMG SIGNALS. *International Journal of Humanoid Robotics*, **2012**, 09, 1250007	1.2	32
85	Decoding Simultaneous Multi-DOF Wrist Movements From Raw EMG Signals Using a Convolutional Neural Network. *IEEE Transactions on Human-Machine Systems*, **2019**, 49, 411-420	4.1	28
84	EMG Control for a Five-fingered Underactuated Prosthetic Hand Based on Wavelet Transform and Sample Entropy **2006**,		28
83	A Novel Unsupervised Adaptive Learning Method for Long-Term Electromyography (EMG) Pattern Recognition. *Sensors*, **2017**, 17,	3.8	26
82	Improving the functionality, robustness, and adaptability of myoelectric control for dexterous motion restoration. *Experimental Brain Research*, **2019**, 237, 291-311	2.3	26
81	Design and Functional Evaluation of a Dexterous Myoelectric Hand Prosthesis With Biomimetic Tactile Sensor. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 1391-1399	4.8	26
80	Accurate EMG onset detection in pathological, weak and noisy myoelectric signals. *Biomedical Signal Processing and Control*, **2017**, 33, 306-315	4.9	25
79	Development of a multi-DOF prosthetic hand with intrinsic actuation, intuitive control and sensory feedback. *Industrial Robot*, **2014**, 41, 381-392	1.4	25
78	EMG pattern recognition and grasping force estimation: Improvement to the myocontrol of multi-DOF prosthetic hands **2009**,		24

77	Levenberg-Marquardt Based Neural Network Control for a Five-fingered Prosthetic Hand		24
76	Experimental Study of an EMG-Controlled 5-DOF Anthropomorphic Prosthetic Hand for Motion Restoration. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2014**, 76, 427-441	2.9	23
75	Estimation of hand grasp force based on forearm surface EMG **2009**,		21
74	A Five-fingered Underactuated Prosthetic Hand Control Scheme		21
73	A Five-fingered Underactuated Prosthetic Hand System **2006**,		20
72	Dynamic training protocol improves the robustness of PR-based myoelectric control. *Biomedical Signal Processing and Control*, **2017**, 31, 249-256	4.9	17
71	A novel grasping force control strategy for multi-fingered prosthetic hand. *Journal of Central South University*, **2012**, 19, 1537-1542	2.1	16
70	An Inverse-Kinematics Table-Based Solution of a Humanoid Robot Finger With Nonlinearly Coupled Joints. *IEEE/ASME Transactions on Mechatronics*, **2009**, 14, 273-281	5.5	16
69	On the development of intrinsically-actuated, multisensory dexterous robotic hands. *ROBOMECH Journal*, **2016**, 3,	2.1	15
68	EMG Control for a Five-fingered Prosthetic Hand Based on Wavelet Transform and Autoregressive Model **2006**,		15
67	Development and experimental evaluation of multi-fingered robot hand with adaptive impedance control for unknown environment grasping. *Robotica*, **2016**, 34, 1168-1185	2.1	14
66	Biomechatronic design and control of an anthropomorphic artificial hand for prosthetic applications. *Robotica*, **2016**, 34, 2291-2308	2.1	12
65	EMG Pattern Recognition Using Convolutional Neural Network with Different Scale Signal/Spectra Input. *International Journal of Humanoid Robotics*, **2019**, 16, 1950013	1.2	12
64	Dexterous motion recognition for myoelectric control of multifunctional transradial prostheses. *Advanced Robotics*, **2014**, 28, 1533-1543	1.7	11
63	Computer Vision-Based Grasp Pattern Recognition With Application to Myoelectric Control of Dexterous Hand Prosthesis. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2020**, 28, 2090-2099	4.8	11
62	Design and control of a coupling mechanism-based prosthetic hand. *Journal of Shanghai Jiaotong University (Science)*, **2010**, 15, 571-577	0.6	9
61	Analysis of Hand and Wrist Postural Synergies in Tolerance Grasping of Various Objects. *PLoS ONE*, **2016**, 11, e0161772	3.7	9
60	A modular multisensory prosthetic hand **2014**,		8

59	DEVELOPMENT AND EXPERIMENT ANALYSIS OF ANTHROPOMORPHIC PROSTHETIC HAND WITH FLEXIBLE THREE-AXIS TACTILE SENSOR. *International Journal of Humanoid Robotics*, **2013**, 10, 1350028	1.2	8
58	Design and development of a 7-DOF humanoid arm **2012**,		8
57	Solving the Time-Jerk Optimal Trajectory Planning Problem of a Robot Using Augmented Lagrange Constrained Particle Swarm Optimization. *Mathematical Problems in Engineering*, **2017**, 2017, 1-10	1.1	7
56	A Novel EMG Motion Pattern Classifier Based on Wavelet Transform and Nonlinearity Analysis Method **2006**,		7
55	A 3-DOF hemi-constrained wrist motion/force detection device for deploying simultaneous myoelectric control. *Medical and Biological Engineering and Computing*, **2018**, 56, 1669-1681	3.1	6
54	Hand motion recognition based on pressure distribution maps and LS-SVM **2014**,		6
53	Design and control of a multisensory five-finger prosthetic hand **2014**,		6
52	Multifingered robot hand dynamic grasping control based on fingertip three-axis tactile sensor feedback **2014**,		6
51	Noise cancellation for electrotactile sensory feedback of myoelectric forearm prostheses **2014**,		6
50	Development of an Anthropomorphic Prosthetic Hand for Man-Machine Interaction. *Lecture Notes in Computer Science*, **2010**, 38-46	0.9	6
49	A BIO-MECHANICAL DESIGNED PROSTHETIC HAND WITH MULTI-CONTROL STRATEGIES. *International Journal of Humanoid Robotics*, **2012**, 09, 1250013	1.2	6
48	EMG dataset augmentation approaches for improving the multi-DOF wrist movement regression accuracy and robustness **2018**,		6
47	. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	6
46	Analysis of the multi-finger dynamics for robot hand system based on EtherCAT **2014**,		5
45	Observer-Based Dynamic Control of an Underactuated Hand. *Advanced Robotics*, **2010**, 24, 123-137	1.7	5
44	Design of an Underactuated Finger Based on a Novel Nine-Bar Mechanism. *Journal of Mechanisms and Robotics*, **2020**, 12,	2.2	5
43	A synthetic framework for evaluating and designing an anthropomorphic prosthetic hand. *Journal of Bionic Engineering*, **2018**, 15, 69-82	2.7	4
42	A novel hybrid closed-loop control approach for dexterous prosthetic hand based on myoelectric control and electrical stimulation. *Industrial Robot*, **2018**, 45, 526-538	1.4	4

41	Design of a highly integrated underactuated finger towards prosthetic hand **2017**,		4
40	A design approach to the configuration of a prosthetic hand. *Industrial Robot*, **2015**, 42, 359-370	1.4	4
39	Capacitive Sensor Combining Proximity and Pressure Sensing for Accurate Grasping of a Prosthetic Hand. *ACS Applied Electronic Materials*,	4	4
38	A fast robotic arm gravity compensation updating approach for industrial application using sparse selection and reconstruction. *Robotics and Autonomous Systems*, **2022**, 149, 103971	3.5	4
37	Analysis on the joint independence of hand and wrist **2016**,		4
36	**2019**,		4
35	Human-machine shared control: New avenue to dexterous prosthetic hand manipulation. *Science China Technological Sciences*, **2021**, 64, 767-773	3.5	4
34	A synthetic framework for evaluating the anthropomorphic characteristics of prosthetic hands **2015**,		3
33	Inverse kinematic optimizations of 7R humanoid arms based on a joint parameterization **2014**,		3
32	An integrated inverse kinematic approach for the 7-DOF humanoid arm with offset wrist **2013**,		3
31	Simultaneous estimation of 2-DOF wrist movements based on constrained non-negative matrix factorization and Hadamard product. *Biomedical Signal Processing and Control*, **2020**, 56, 101729	4.9	3
30	A design of a miniaturized prosthetic wrist based on repetition rate of human wrist daily tasks **2016** ,		3
29	A Novel Grasping Control Method for Dexterous Prosthesis based on Eye-tracking* **2019**,		3
28	An adaptive socket with auto-adjusting air bladders for interfacing transhumeral prosthesis: A pilot study. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2019**, 233, 812-822	1.7	2
27	Design and control of an anthropomorphic prosthetic hand with a cosmesis **2016**,		2
26	Optimal kinematic control of humanoid arms with offset wrist **2014**,		2
25	A novel actuation configuration of robotic hand and the mechanical implementation via postural synergies **2017**,		2
24	An analytical inverse kinematic solution with the reverse coordinates for 6-DOF manipulators **2013**,		2

23	Embedded Control System for Multi-DOF Anthropomorphic Prosthetic Hand and Its Grasping Strategy. *Jiqiren/Robot*, **2011**, 33, 22-27		2
22	Three-Dimensional Simultaneous EMG Control Based on Multi-layer Support Vector Regression with Interactive Structure. *Lecture Notes in Computer Science*, **2015**, 282-293	0.9	2
21	A Systematic Analysis of Hand Movement Functionality: Qualitative Classification and Quantitative Investigation of Hand Grasp Behavior. *Frontiers in Neurorobotics*, **2021**, 15, 658075	3.4	2
20	An actuation configuration of inter-module coordination and the evaluation for the mechanical implementation to a prosthetic hand **2016**,		2
19	A Compact Control System and A Myoelectric Control Method for Multi-DOFs Prosthetic Hand **2019** ,		2
18	Design and Preliminary Ground Experiment for Robotic Assembly of a Modular Space Telescope. *IEEE Access*, **2019**, 7, 160870-160878	3.5	2
17	Bio-inspired design of alternate rigid-flexible segments to improve the stiffness of a continuum manipulator. *Science China Technological Sciences*, **2020**, 63, 1549-1559	3.5	1
16	Adaptive learning of multi-finger motion recognition based on support vector machine **2013**,		1
15	sEMG-based estimation of human arm force using regression model **2017**,		1
14	A real-time controller development framework for high degrees of freedom systems **2012**,		1
13	A novel phase current reconstruction method using a single DC-link current sensor **2009**,		1
12	A Biomimetic impedance controller for Robotic Hand Variable Stiffness Grasping **2020**,		1
11	Quantitative Investigation of Hand Grasp Functionality: Thumb Grasping Behavior Adapting to Different Object Shapes, Sizes, and Relative Positions. *Applied Bionics and Biomechanics*, **2021**, 2021, 2640422	1.6	1
10	Design of a Highly Compliant Underactuated Prosthetic Hand* **2019**,		1
9	Design of Multi-channel Electrical Stimulator Integrated with Online Impedance Measurement. *Journal of Medical and Biological Engineering*, **2020**, 40, 943-950	2.2	1
8	A Hybrid Mapping Method with Position and Stiffness for Manipulator Teleoperation. *Applied Sciences (Switzerland)*, **2019**, 9, 5005	2.6	1
7	Electrode Design for Electrotactile Feedback With Reduced Interference to Myoelectric Signal. *IEEE Sensors Journal*, **2021**, 21, 16350-16358	4	1
6	VRM: A Unified Framework for Closed-Form Solutions of a Special Class of Serial Manipulators. *International Journal of Advanced Robotic Systems*, **2015**, 12, 38	1.4	0

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5	EMG Onset Detection Based on Teager-Kaiser Energy Operator and Morphological Close Operation. *Lecture Notes in Computer Science*, **2015**, 257-268	0.9
4	An anthropomorphic controlled hand prosthesis system. *Journal of Zhejiang University: Science C*, **2012**, 13, 769-780	
3	Research on Virtual Training System for Intelligent Upper Limb Prosthesis with Bidirectional Neural Channels. *Lecture Notes in Computer Science*, **2021**, 314-323	0.9
2	Learning Grasp Configuration Through Object-Specific Hand Primitives for Posture Planning of Anthropomorphic Hands. *Frontiers in Neurorobotics*, **2021**, 15, 740262	3.4
1	Quantitative Investigation of Hand Grasp Functionality: Hand Joint Motion Correlation, Independence, and Grasping Behavior.. *Applied Bionics and Biomechanics*, **2021**, 2021, 2787832	1.6