

# Poramate Manoonpong

## List of Publications by Year in descending order

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147  
papers

2,216  
citations

236612

25  
h-index

301761

39  
g-index

162  
all docs

162  
docs citations

162  
times ranked

1342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organized adaptation of a simple neural circuit enables complex robot behaviour. <i>Nature Physics</i> , 2010, 6, 224-230.	6.5	182
2	Neural control and adaptive neural forward models for insect-like, energy-efficient, and adaptable locomotion of walking machines. <i>Frontiers in Neural Circuits</i> , 2013, 7, 12.	1.4	119
3	Adaptive Control Strategies for Interlimb Coordination in Legged Robots: A Review. <i>Frontiers in Neurobotics</i> , 2017, 11, 39.	1.6	116
4	Adaptive, Fast Walking in a Biped Robot under Neuronal Control and Learning. <i>PLoS Computational Biology</i> , 2007, 3, e134.	1.5	83
5	Sensor-driven neural control for omnidirectional locomotion and versatile reactive behaviors of walking machines. <i>Robotics and Autonomous Systems</i> , 2008, 56, 265-288.	3.0	83
6	Adaptive and Energy Efficient Walking in a Hexapod Robot Under Neuromechanical Control and Sensorimotor Learning. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 2521-2534.	6.2	64
7	Decoding EEG Rhythms During Action Observation, Motor Imagery, and Execution for Standing and Sitting. <i>IEEE Sensors Journal</i> , 2020, 20, 13776-13786.	2.4	58
8	A Bio-inspired Climbing Robot with Flexible Pads and Claws. <i>Journal of Bionic Engineering</i> , 2018, 15, 368-378.	2.7	47
9	Inversion of friction anisotropy in a bio-inspired asymmetrically structured surface. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170629.	1.5	46
10	Multiple chaotic central pattern generators with learning for legged locomotion and malfunction compensation. <i>Information Sciences</i> , 2015, 294, 666-682.	4.0	43
11	Small-Sized Reconfigurable Quadruped Robot With Multiple Sensory Feedback for Studying Adaptive and Versatile Behaviors. <i>Frontiers in Neurobotics</i> , 2020, 14, 14.	1.6	40
12	Visual terrain classification for selecting energy efficient gaits of a hexapod robot. , 2013, , .		38
13	Biologically-inspired adaptive obstacle negotiation behavior of hexapod robots. <i>Frontiers in Neurobotics</i> , 2014, 8, 3.	1.6	37
14	Information dynamics based self-adaptive reservoir for delay temporal memory tasks. <i>Evolving Systems</i> , 2013, 4, 235-249.	2.4	36
15	Enhanced Locomotion Efficiency of a Bio-inspired Walking Robot using Contact Surfaces with Frictional Anisotropy. <i>Scientific Reports</i> , 2016, 6, 39455.	1.6	36
16	Simple analytical model reveals the functional role of embodied sensorimotor interaction in hexapod gaits. <i>PLoS ONE</i> , 2018, 13, e0192469.	1.1	36
17	Fast Dynamical Coupling Enhances Frequency Adaptation of Oscillators for Robotic Locomotion Control. <i>Frontiers in Neurobotics</i> , 2017, 11, 14.	1.6	33
18	A Single-Channel Consumer-Grade EEG Device for Brain-Computer Interface: Enhancing Detection of SSVEP and Its Amplitude Modulation. <i>IEEE Sensors Journal</i> , 2020, 20, 3366-3378.	2.4	33

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19	Insect-Inspired Robots: Bridging Biological and Artificial Systems. <i>Sensors</i> , 2021, 21, 7609.	2.1	32
20	Generic Neural Locomotion Control Framework for Legged Robots. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 4013-4025.	7.2	30
21	iCrawl: An Inchworm-Inspired Crawling Robot. <i>IEEE Access</i> , 2020, 8, 200655-200668.	2.6	30
22	Stability analysis of a hexapod robot driven by distributed nonlinear oscillators with a phase modulation mechanism. , 2013, , .		28
23	Distributed recurrent neural forward models with synaptic adaptation and CPG-based control for complex behaviors of walking robots. <i>Frontiers in Neurorobotics</i> , 2015, 9, 10.	1.6	28
24	Synaptic plasticity in a recurrent neural network for versatile and adaptive behaviors of a walking robot. <i>Frontiers in Neurorobotics</i> , 2015, 9, 11.	1.6	28
25	Modular Reactive Neurocontrol for Biologically Inspired Walking Machines. <i>International Journal of Robotics Research</i> , 2007, 26, 301-331.	5.8	27
26	A Neurocomputational Model of Goal-Directed Navigation in Insect-Inspired Artificial Agents. <i>Frontiers in Neurorobotics</i> , 2017, 11, 20.	1.6	26
27	A Fast Online Frequency Adaptation Mechanism for CPG-Based Robot Motion Control. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 3324-3331.	3.3	26
28	Adaptive Motor Control for Human-like Spatial-temporal Adaptation. , 2018, , .		25
29	Efference copies in neural control of dynamic biped walking. <i>Robotics and Autonomous Systems</i> , 2009, 57, 1140-1153.	3.0	21
30	Neuromechanical control for hexapedal robot walking on challenging surfaces and surface classification. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1777-1789.	3.0	21
31	Development of Autonomous Drones for Adaptive Obstacle Avoidance in Real World Environments. , 2018, , .		21
32	Biologically inspired reactive climbing behavior of hexapod robots. , 2012, , .		20
33	Flexible Spiking CPGs for Online Manipulation During Hexapod Walking. <i>Frontiers in Neurorobotics</i> , 2020, 14, 41.	1.6	20
34	Lateral Undulation of the Bendable Body of a Gecko-Inspired Robot for Energy-Efficient Inclined Surface Climbing. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 7917-7924.	3.3	20
35	Neuromodulatory adaptive combination of correlation-based learning in cerebellum and reward-based learning in basal ganglia for goal-directed behavior control. <i>Frontiers in Neural Circuits</i> , 2014, 8, 126.	1.4	19
36	SMOOTH Robot: Design for a Novel Modular Welfare Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 98, 19-37.	2.0	19

#	ARTICLE	IF	CITATIONS
37	A robot leg with compliant tarsus and its neural control for efficient and adaptive locomotion on complex terrains. <i>Artificial Life and Robotics</i> , 2016, 21, 274-281.	0.7	18
38	CPG Driven RBF Network Control with Reinforcement Learning for Gait Optimization of a Dung Beetle-Like Robot. <i>Lecture Notes in Computer Science</i> , 2019, , 698-710.	1.0	18
39	Lateral undulation of the flexible spine of sprawling posture vertebrates. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2018, 204, 707-719.	0.7	15
40	Error-Based Learning Mechanism for Fast Online Adaptation in Robot Motor Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 2042-2051.	7.2	15
41	Virtual agonist-antagonist mechanisms produce biological muscle-like functions. <i>Industrial Robot</i> , 2014, 41, 340-346.	1.2	14
42	General Distributed Neural Control and Sensory Adaptation for Self-Organized Locomotion and Fast Adaptation to Damage of Walking Robots. <i>Frontiers in Neural Circuits</i> , 2020, 14, 46.	1.4	14
43	Visual Goal Human-Robot Communication Framework With Few-Shot Learning: A Case Study in Robot Waiter System. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 1883-1891.	7.2	14
44	A Low-Cost, Compact, Sealed, Three-Axis Force/Torque Sensor for Walking Robots. <i>IEEE Sensors Journal</i> , 2021, 21, 8916-8926.	2.4	14
45	Continuous Online Adaptation of Bioinspired Adaptive Neuroendocrine Control for Autonomous Walking Robots. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 1833-1845.	7.2	14
46	Bio-Inspired Adaptive Locomotion Control System for Online Adaptation of a Walking Robot on Complex Terrains. <i>IEEE Access</i> , 2020, 8, 91587-91602.	2.6	13
47	Using efference copy and a forward internal model for adaptive biped walking. <i>Autonomous Robots</i> , 2010, 29, 357-366.	3.2	12
48	Hybrid soft-rigid foot with dry adhesive material designed for a gecko-inspired climbing robot. , 2020, , .		12
49	Distributed-force-feedback-based reflex with online learning for adaptive quadruped motor control. <i>Neural Networks</i> , 2021, 142, 410-427.	3.3	12
50	Dynamical Systems in the Sensorimotor Loop: On the Interrelation Between Internal and External Mechanisms of Evolved Robot Behavior. <i>Lecture Notes in Computer Science</i> , 2007, , 186-195.	1.0	12
51	Adaptive neural oscillators with synaptic plasticity for locomotion control of a snake-like robot with screw-drive mechanism. , 2013, , .		11
52	Framework for Developing Bio-Inspired Morphologies for Walking Robots. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6986.	1.3	11
53	A gecko-inspired robot with CPG-based neural control for locomotion and body height adaptation. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 036008.	1.5	11
54	A reconfigurable spherical robot. , 2011, , .		10

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55	COMBINING CORRELATION-BASED AND REWARD-BASED LEARNING IN NEURAL CONTROL FOR POLICY IMPROVEMENT. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350015.	0.9	10
56	The RunBot Architecture for Adaptive, Fast, Dynamic Walking. , 2007, , .		9
57	Multiple chaotic central pattern generators for locomotion generation and leg damage compensation in a hexapod robot. , 2012, , .		9
58	Adaptive neural control for self-organized locomotion and obstacle negotiation of quadruped robots. , 2018, , .		9
59	Adaptive parallel reflex- and decoupled CPG-based control for complex bipedal locomotion. Robotics and Autonomous Systems, 2020, 134, 103663.	3.0	9
60	Locomotion Control With Frequency and Motor Pattern Adaptations. Frontiers in Neural Circuits, 2021, 15, 743888.	1.4	9
61	Versatile modular neural locomotion control with fast learning. Nature Machine Intelligence, 2022, 4, 169-179.	8.3	9
62	Modular Neural Control for Gait Adaptation and Obstacle Avoidance of a Tailless Gecko Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	8
63	Robust Actuator Fault Diagnosis Algorithm for Autonomous Hexacopter UAVs. IFAC-PapersOnLine, 2020, 53, 682-687.	0.5	8
64	Neural Processing of Auditory Signals and Modular Neural Control for Sound Tropism of Walking Machines. International Journal of Advanced Robotic Systems, 2005, 2, 22.	1.3	7
65	Reinforcement learning approach to generate goal-directed locomotion of a snake-like robot with screw-drive units. , 2014, , .		7
66	Bio-inspired design and movement generation of dung beetle-like legs. Artificial Life and Robotics, 2018, 23, 555-563.	0.7	7
67	Integrating Non-spiking Interneurons in Spiking Neural Networks. Frontiers in Neuroscience, 2021, 15, 633945.	1.4	7
68	Echo State Networks for Estimating Exteroceptive Conditions From Proprioceptive States in Quadruped Robots. Frontiers in Neurorobotics, 2021, 15, 655330.	1.6	7
69	Mini Review: Comparison of Bio-Inspired Adhesive Feet of Climbing Robots on Smooth Vertical Surfaces. Frontiers in Bioengineering and Biotechnology, 2021, 9, 765718.	2.0	7
70	Biologically inspired modular neural control for a leg-wheel hybrid robot. Advances in Robotics Research, 2014, 1, 101-126.	0.1	7
71	Adaptive Neural Oscillator with Synaptic Plasticity Enabling Fast Resonance Tuning. Lecture Notes in Computer Science, 2012, , 451-458.	1.0	6
72	Reservoir-based online adaptive forward models with neural control for complex locomotion in a hexapod robot. , 2014, , .		6

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73	A neural path integration mechanism for adaptive vector navigation in autonomous agents. , 2015, , .		6
74	A dung beetle-inspired robotic model and its distributed sensor-driven control for walking and ball rolling. Artificial Life and Robotics, 2018, 23, 435-443.	0.7	6
75	A scalable Echo State Networks hardware generator for embedded systems using high-level synthesis. , 2019, , .		6
76	Rules for the Leg Coordination of Dung Beetle Ball Rolling Behaviour. Scientific Reports, 2020, 10, 9278.	1.6	6
77	A Comparative Study of Adaptive Interlimb Coordination Mechanisms for Self-Organized Robot Locomotion. Frontiers in Robotics and AI, 2021, 8, 638684.	2.0	6
78	Getting grip in changing environments: the effect of friction anisotropy inversion on robot locomotion. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	6
79	A SIMPLIFIED VARIABLE ADMITTANCE CONTROLLER BASED ON A VIRTUAL AGONIST-ANTAGONIST MECHANISM FOR ROBOT JOINT CONTROL. , 2013, , .		6
80	Learning-Based Multifunctional Elbow Exoskeleton Control. IEEE Transactions on Industrial Electronics, 2022, 69, 9216-9224.	5.2	6
81	The SMOOTH-Robot: A Modular, Interactive Service Robot. Frontiers in Robotics and AI, 2021, 8, 645639.	2.0	6
82	Compliant ankles and flat feet for improved self-stabilization and passive dynamics of the biped robot &#x201C;RunBot&#x201D;. , 2011, , .		5
83	A PZT modeling for energy harvesting circuits. , 2011, , .		5
84	Editorial: Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology. Frontiers in Neurorobotics, 2018, 12, 53.	1.6	5
85	No Need for Landmarks: An Embodied Neural Controller for Robust Insect-Like Navigation Behaviors. IEEE Transactions on Cybernetics, 2022, 52, 12893-12904.	6.2	5
86	OBSTACLE/GAP DETECTION AND TERRAIN CLASSIFICATION OF WALKING ROBOTS BASED ON A 2D LASER RANGE FINDER. , 2013, , .		5
87	Modular neural control for a reactive behavior of walking machines. , 2005, , .		4
88	Exploring the dynamic walking range of the biped robot "Run Bot" with an active upper-body component. , 2006, , .		4
89	Modular Neural Control for Bio-Inspired Walking and Ball Rolling of a Dung Beetle-Like Robot. , 2018, , .		4
90	Neural computational model GrowthEstimate: A model for studying living resources through digestive efficiency. PLoS ONE, 2019, 14, e0216030.	1.1	4

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91	Neural Control for Gait Generation and Adaptation of a Gecko Robot. , 2019, , .		4
92	A neuroplasticity-inspired neural circuit for acoustic navigation with obstacle avoidance that learns smooth motion paths. Neural Computing and Applications, 2019, 31, 1765-1781.	3.2	4
93	Concurrent intramodal learning enhances multisensory responses of symmetric crossmodal learning in robotic audio-visual tracking. Cognitive Systems Research, 2019, 54, 138-153.	1.9	4
94	Adaptive Neuromechanical Control for Robust Behaviors of Bio-Inspired Walking Robots. Lecture Notes in Computer Science, 2020, , 775-786.	1.0	4
95	Electromagnetic Feet With Soft Toes for Adaptive, Versatile, and Stable Locomotion of an Inchworm-Inspired Pipe Crawling Robot. Frontiers in Bioengineering and Biotechnology, 2022, 10, 842816.	2.0	4
96	Neural preprocessing of auditory-wind sensory signals and modular neural control for auditory- and wind-evoked escape responses of walking machines. , 2009, , .		3
97	Neural Combinatorial Learning of Goal-Directed Behavior with Reservoir Critic and Reward Modulated Hebbian Plasticity. , 2013, , .		3
98	Learning and Chaining of Motor Primitives for Goal-directed Locomotion of a Snakelike Robot with Screw-drive Units. International Journal of Advanced Robotic Systems, 0, , 1.	1.3	3
99	Adaptive Combinatorial Neural Control for Robust Locomotion of a Biped Robot. Lecture Notes in Computer Science, 2016, , 317-328.	1.0	3
100	An Adaptive Neural Mechanism with a Lizard Ear Model for Binaural Acoustic Tracking. Lecture Notes in Computer Science, 2016, , 79-90.	1.0	3
101	Modular Neural Mechanisms for Gait Phase Tracking, Prediction, and Selection in Personalizable Knee-Ankle-Foot-Orthoses. Frontiers in Neurobotics, 2018, 12, 37.	1.6	3
102	Teaching Hardware Implementation of Neural Networks using High-Level Synthesis in Less Than Four Hours for Engineering Education of Intelligent Embedded Computing. , 2019, , .		3
103	Neural Control with an Artificial Hormone System for Energy-Efficient Compliant Terrain Locomotion and Adaptation of Walking Robots. , 2019, , .		3
104	Generic Mechanism for Waveform Regulation and Synchronization of Oscillators: An Application for Robot Behavior Diversity Generation. IEEE Transactions on Cybernetics, 2022, 52, 4495-4507.	6.2	3
105	Online sensorimotor learning and adaptation for inverse dynamics control. Neural Networks, 2021, 143, 525-536.	3.3	3
106	A Neuromechanical Controller of a Hexapod Robot for Walking on Sponge, Gravel and Snow Surfaces. , 0, , .		3
107	A Variable Soft Finger Exoskeleton for Quantifying Fatigue-induced Mechanical Impedance. , 2021, , .		3
108	Cylindrical Terrain Classification Using a Compliant Robot Foot with a Flexible Tactile-Array Sensor for Legged Robots. Lecture Notes in Computer Science, 2018, , 136-146.	1.0	3

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109	Online Gait Adaptation of a Hexapod Robot Using an Improved Artificial Hormone Mechanism. Lecture Notes in Computer Science, 2018, , 212-222.	1.0	3
110	Fin Ray Crossbeam Angles for Efficient Foot Design for Energy-Efficient Robot Locomotion. Advanced Intelligent Systems, 2022, 4, 2100133.	3.3	3
111	An Adaptive Neural Mechanism for Acoustic Motion Perception with Varying Sparsity. Frontiers in Neurobotics, 2017, 11, 11.	1.6	2
112	Development of a Real-Time Motor-Imagery-Based EEG Brain-Machine Interface. Lecture Notes in Computer Science, 2018, , 610-622.	1.0	2
113	AHEAD: Automatic Holistic Energy-Aware Design Methodology for MLP Neural Network Hardware Generation in Proactive BMI Edge Devices. Energies, 2020, 13, 2180.	1.6	2
114	VENOM: Versatile, Adhesive, and Soft Material for Various Surface Adhesion. , 2021, , .		2
115	Towards Crossmodal Learning for Smooth Multimodal Attention Orientation. Lecture Notes in Computer Science, 2018, , 318-328.	1.0	2
116	Adaptive Neural CPG-Based Control for a Soft Robotic Tentacle. Lecture Notes in Computer Science, 2020, , 762-774.	1.0	2
117	Artificial Neural Network Based Compliant Control for Robot Arms. Lecture Notes in Computer Science, 2016, , 91-100.	1.0	2
118	Extraction of Reward-Related Feature Space Using Correlation-Based and Reward-Based Learning Methods. Lecture Notes in Computer Science, 2010, , 414-421.	1.0	2
119	Adaptive Landmark-Based Navigation System Using Learning Techniques. Lecture Notes in Computer Science, 2014, , 121-131.	1.0	2
120	Neural Control and Synaptic Plasticity for Adaptive Obstacle Avoidance of Autonomous Drones. Lecture Notes in Computer Science, 2018, , 177-188.	1.0	2
121	Adaptive Neural Control for Efficient Rhythmic Movement Generation and Online Frequency Adaptation of a Compliant Robot Arm. Communications in Computer and Information Science, 2020, , 695-703.	0.4	2
122	NeuroVis: Real-Time Neural Information Measurement and Visualization of Embodied Neural Systems. Frontiers in Neural Circuits, 2021, 15, 743101.	1.4	2
123	Neural Control and Online Learning for Speed Adaptation of Unmanned Aerial Vehicles. Frontiers in Neural Circuits, 2022, 16, 839361.	1.4	2
124	Neural Control and Learning for Versatile, Adaptive, Autonomous Behavior of Walking Machines. , 2008, , .		1
125	The development of a biomechanical leg system and its neural control. , 2009, , .		1
126	Reservoir of neurons with adaptive time constants: a hybrid model for robust motor-sensory temporal processing. BMC Neuroscience, 2014, 15, .	0.8	1



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127	Modular Neural Control for Object Transportation of a Bio-inspired Hexapod Robot. Lecture Notes in Computer Science, 2016, , 67-78.	1.0	1
128	Closed-loop dynamic computations for adaptive behavior (articles based on SAB2018 conference). Adaptive Behavior, 2020, 28, 125-127.	1.1	1
129	Editorial: Biology-Inspired Engineering and Engineering-Inspired Biology. Frontiers in Neurorobotics, 2020, 14, 614683.	1.6	1
130	Advanced Collaborative Robots for the Factory of the Future. , 2021, , .		1
131	Designing Simple Nonlinear Filters Using Hysteresis of Single Recurrent Neurons for Acoustic Signal Recognition in Robots. Lecture Notes in Computer Science, 2010, , 374-383.	1.0	1
132	NEURAL CONTROL OF A THREE-LEGGED RECONFIGURABLE ROBOT WITH OMNIDIRECTIONAL WHEELS. , 2013, , .		1
133	Haptic Feedback with a Reservoir Computing-Based Recurrent Neural Network for Multiple Terrain Classification of a Walking Robot. Lecture Notes in Computer Science, 2019, , 233-244.	1.0	1
134	Dynamical State Forcing on Central Pattern Generators for Efficient Robot Locomotion Control. Lecture Notes in Computer Science, 2020, , 799-810.	1.0	1
135	GRAB: GRADient-Based Shape-Adaptive Locomotion Control. IEEE Robotics and Automation Letters, 2022, 7, 1087-1094.	3.3	1
136	The Roles and Comparison of Rigid and Soft Tails in Gecko-Inspired Climbing Robots: A Mini-Review. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	1
137	INTERNAL MODELS SUPPORT SPECIFIC GAITS IN ORTHOTIC DEVICES. , 2014, , .		0
138	Predictive Acoustic Tracking with an Adaptive Neural Mechanism. Procedia Computer Science, 2017, 105, 99-104.	1.2	0
139	Virtual Motoneuron Activation for Goal-directed Locomotion of a Hexapod Robot. , 2020, , .		0
140	Editorial: Integrated Multi-modal and Sensorimotor Coordination for Enhanced Human-Robot Interaction. Frontiers in Neurorobotics, 2021, 15, 673659.	1.6	0
141	A Compliant Leg Structure for Terrestrial and Aquatic Walking Robots. Lecture Notes in Networks and Systems, 2022, , 69-80.	0.5	0
142	COMPARING ARC-SHAPED FEET AND RIGID ANKLES WITH FLAT FEET AND COMPLIANT ANKLES FOR A DYNAMIC WALKER. , 2014, , .		0
143	Autobot for Effective Design Space Exploration and Agile Generation of RBFNN Hardware Accelerator in Embedded Real-time Computing. , 2020, , .		0
144	End-to-End Rapid FPGA Prototyping for Embedded Proactive BMI Control. , 2020, , .		0

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145	Editorial: Biological and Robotic Inter-Limb Coordination. <i>Frontiers in Robotics and AI</i> , 2022, 9, 875493.	2.0	0
146	Morphological Adaptation for Speed Control of Pipeline Inspection Gauges MC-PIG. , 2021, , .		0
147	Network Architecture Producing Swing to Stance Transitions in an Insect Walking System. <i>Frontiers in Insect Science</i> , 2022, 2, .	0.9	0