Bram Vanderborght

List of Publications by Year
in descending order

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326 papers	10,984 citations	44066 48 h-index	49904 87 g-index
336 all docs	336 docs citations	336 times ranked	5799 citing authors

#	Article	IF	Citations
1	Variable impedance actuators: A review. Robotics and Autonomous Systems, 2013, 61, 1601-1614.	5.1	822
2	Compliant actuator designs. IEEE Robotics and Automation Magazine, 2009, 16, 81-94.	2.0	672
3	Self-healing soft pneumatic robots. Science Robotics, 2017, 2, .	17.6	359
4	MACCEPA, the mechanically adjustable compliance and controllable equilibrium position actuator: Design and implementation in a biped robot. Robotics and Autonomous Systems, 2007, 55, 761-768.	5.1	334
5	Variable Stiffness Actuators: Review on Design and Components. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2418-2430.	5.8	293
6	A compact soft actuator unit for small scale human friendly robots. , 2009, , .		168
7	Variable stiffness actuators: The userâ€™s point of view. International Journal of Robotics Research, 2015, 34, 727-743.	8.5	160
8	The Pneumatic Biped ?Lucy? Actuated with Pleated Pneumatic Artificial Muscles. Autonomous Robots, 2005, 18, 201-213.	4.8	153
9	Using the social robot probo as a social story telling agent for children with ASD. Interaction Studies, 2012, 13, 348-372.	0.6	152
10	A review on self-healing polymers for soft robotics. Materials Today, 2021, 47, 187-205.	14.2	150
11	A Survey of Expectations About the Role of Robots in Robot-Assisted Therapy for Children with ASD: Ethical Acceptability, Trust, Sociability, Appearance, and Attachment. Science and Engineering Ethics, 2016, 22, 47-65.	2.9	143
12	A novel actuator with adjustable stiffness (AwAS). , 2010, , .		133
13	Expressing Emotions with the Social Robot Probo. International Journal of Social Robotics, 2010, 2, 377-389.	4.6	131
14	Comparison of Mechanical Design and Energy Consumption of Adaptable, Passive-compliant Actuators. International Journal of Robotics Research, 2009, 28, 90-103.	8.5	128
15	Design and Validation of the Ankle Mimicking Prosthetic (AMP-) Foot 2.0. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 138-148.	4.9	126
16	Passive Back Support Exoskeleton Improves Range of Motion Using Flexible Beams. Frontiers in Robotics and AI, 2018, 5, 72.	3.2	120
17	Lock Your Robot: A Review of Locking Devices in Robotics. IEEE Robotics and Automation Magazine, 2015, 22, 106-117.	2.0	114
18	Proxy-based Sliding Mode Control of a Planar Pneumatic Manipulator. International Journal of Robotics Research, 2009, 28, 266-284.	8.5	105

#	Article	IF	Citations
19	Series and Parallel Elastic Actuation: Impact of natural dynamics on power and energy consumption. Mechanism and Machine Theory, 2016, 102, 232-246.	4.5	101
20	How to Build a Supervised Autonomous System for Robot-Enhanced Therapy for Children with Autism Spectrum Disorder. Paladyn, 2017, 8, 18-38.	2.7	100
21	MACCEPA 2.0: compliant actuator used for energy efficient hopping robot Chobino1D. Autonomous Robots, 2011, 31, 55-65.	4.8	93
22	Thirdâ€“Generation Pleated Pneumatic Artificial Muscles for Robotic Applications: Development and Comparison with McKibben Muscle. Advanced Robotics, 2012, 26, 1205-1227.	1.8	93
23	Variable Recruitment of Parallel Elastic Elements: Seriesâ€“Parallel Elastic Actuators (SPEA) With Dephased Mutilated Gears. IEEE/ASME Transactions on Mechatronics, 2015, 20, 594-602.	5.8	89
24	Human-like compliant locomotion: state of the art of robotic implementations. Bioinspiration and Biomimetics, 2016, 11, 051002.	2.9	87
25	Safe and Compliant Guidance by a Powered Knee Exoskeleton for Robot-Assisted Rehabilitation of Gait. Advanced Robotics, 2011, 25, 513-535.	1.8	85
26	Children with Autism Spectrum Disorders Make a Fruit Salad with Probo, the Social Robot: An Interaction Study. Journal of Autism and Developmental Disorders, 2016, 46, 113-126.	2.7	82
27	Pleated Pneumatic Artificial Muscle-Based Actuator System as a Torque Source for Compliant Lower Limb Exoskeletons. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1046-1056.	5.8	81
28	MACCEPA 2.0: Adjustable compliant actuator with stiffening characteristic for energy efficient hopping. , 2009, , .		80
29	Processing of Selfâ€Healing Polymers for Soft Robotics. Advanced Materials, 2022, 34, e2104798.	21.0	80
30	Second generation pleated pneumatic artificial muscle and its robotic applications. Advanced Robotics, 2006, 20, 783-805.	1.8	79
31	Working with Walt: How a Cobot Was Developed and Inserted on an Auto Assembly Line. IEEE Robotics and Automation Magazine, 2018, 25, 51-58.	2.0	76
32	Misalignment Compensation for Full Human-Exoskeleton Kinematic Compatibility: State of the Art and Evaluation. Applied Mechanics Reviews, 2018, 70, .	10.1	73
33	Overview of the Lucy Project: Dynamic Stabilization of a Biped Powered by Pneumatic Artificial Muscles. Advanced Robotics, 2008, 22, 1027-1051.	1.8	72
34	Robot-Assisted Therapy for Autism Spectrum Disorders with (Partially) Autonomous Control: Challenges and Outlook. Paladyn, 2012, 3, .	2.7	70
35	Design and control of a lower limb exoskeleton for robot-assisted gait training. Applied Bionics and Biomechanics, 2009, 6, 229-243.	1.1	67
36	Modeling and design of geared DC motors for energy efficiency: Comparison between theory and experiments. Mechatronics, 2015, 30, 198-213.	3.3	67

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37	A Review of Gait Phase Detection Algorithms for Lower Limb Prostheses. Sensors, 2020, 20, 3972.	3.8	67
38	Development of a compliance controller to reduce energy consumption for bipedal robots. Autonomous Robots, 2008, 24, 419-434.	4.8	66
39	Ankleâ€“knee prosthesis with active ankle and energy transfer: Development of the CYBERLEGs Alpha-Prosthesis. Robotics and Autonomous Systems, 2015, 73, 4-15.	5.1	64
40	The influence of stereochemistry on the reactivity of the Dielsâ€“Alder cycloaddition and the implications for reversible network polymerization. Polymer Chemistry, 2019, 10, 473-485.	3.9	61
41	HyQ - Hydraulically actuated quadruped robot: Hopping leg prototype. , 2008, , .		60
42	An Overview on Principles for Energy Efficient Robot Locomotion. Frontiers in Robotics and AI, 2018, 5, 129.	3.2	60
43	ED-FNN: A New Deep Learning Algorithm to Detect Percentage of the Gait Cycle for Powered Prostheses. Sensors, 2018, 18, 2389.	3.8	60
44	Prevalence and incidence of work-related musculoskeletal disorders in secondary industries of 21st century Europe: a systematic review and meta-analysis. BMC Musculoskeletal Disorders, 2021, 22, 751.	1.9	60
45	Design of Smart Modular Variable Stiffness Actuators for Robotic-Assistive Devices. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1777-1785.	5.8	57
46	CAN THE SOCIAL ROBOT PROBO HELP CHILDREN WITH AUTISM TO IDENTIFY SITUATION-BASED EMOTIONS? A SERIES OF SINGLE CASE EXPERIMENTS. International Journal of Humanoid Robotics, 2013, 10, 1350025.	1.1	56
47	The Effects of Robot-Enhanced Psychotherapy: A Meta-Analysis. Review of General Psychology, 2014, 18, 127-136.	3.2	56
48	Estimating robot end-effector force from noisy actuator torque measurements. , 2011, , .		54
49	Social Robots vs. Computer Display: Does the Way Social Stories are Delivered Make a Difference for Their Effectiveness on ASD Children?. Journal of Educational Computing Research, 2013, 49, 381-401.	5.5	54
50	Reversal Learning Task in Children with Autism Spectrum Disorder: A Robot-Based Approach. Journal of Autism and Developmental Disorders, 2015, 45, 3715-3725.	2.7	54
51	Additive Manufacturing for Self-Healing Soft Robots. Soft Robotics, 2020, 7, 711-723.	8.0	54
52	Robot-Enhanced Therapy: Development and Validation of Supervised Autonomous Robotic System for Autism Spectrum Disorders Therapy. IEEE Robotics and Automation Magazine, 2019, 26, 49-58.	2.0	52
53	Step Length and Velocity Control of a Dynamic Bipedal Walking Robot With Adaptable Compliant Joints. IEEE/ASME Transactions on Mechatronics, 2013, 18, 598-611.	5.8	50
54	Series and Parallel Elastic Actuation: Influence of Operating Positions on Design and Control. IEEE/ASME Transactions on Mechatronics, 2017, 22, 521-529.	5.8	50

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55	Energy Consumption of Geared DC Motors in Dynamic Applications: Comparing Modeling Approaches. IEEE Robotics and Automation Letters, 2016, 1, 524-530.	5.1	49
56	New frontiers in the rubber hand experiment: when a robotic hand becomes oneâ€™s own. Behavior Research Methods, 2015, 47, 744-755.	4.0	48
57	Strategies for Humanoid Robots to Dynamically Walk Over Large Obstacles. IEEE Transactions on Robotics, 2009, 25, 960-967.	10.3	47
58	Controlling a bipedal walking robot actuated by pleated pneumatic artificial muscles. Robotica, 2006, 24, 401-410.	1.9	46
59	Task allocation for improved ergonomics in Human-Robot Collaborative Assembly. Interaction Studies, 2019, 20, 102-133.	0.6	46
60	Advances in Propulsive Bionic Feet and Their Actuation Principles. Advances in Mechanical Engineering, 2014, 6, 984046.	1.6	45
61	From stopping to shopping: An observational study comparing a humanoid service robot with a tablet service kiosk to attract and convert shoppers. Journal of Business Research, 2021, 134, 263-274.	10.2	44
62	Design and Control of a Lower Limb Exoskeleton for Robot-Assisted Gait Training. Applied Bionics and Biomechanics, 2009, 6, 229-243.	1.1	43
63	MECHANICAL DESIGN OF THE HUGGABLE ROBOT PROBO. International Journal of Humanoid Robotics, 2011, 08, 481-511.	1.1	43
64	Robot Enhanced Therapy for Children with Autism Disorders: Measuring Ethical Acceptability. IEEE Technology and Society Magazine, 2016, 35, 54-66.	0.8	43
65	Piezoresistive sensor fiber composites based on silicone elastomers for the monitoring of the position of a robot arm. Sensors and Actuators A: Physical, 2021, 318, 112433.	4.1	43
66	Social Processes: What Determines Industrial Workersâ€™ Intention to Use Exoskeletons?. Human Factors, 2020, 62, 337-350.	3.5	42
67	Enhancing play skills, engagement and social skills in a play task in ASD children by using robot-based interventions. A pilot study. Interaction Studies, 2014, 15, 292-320.	0.6	41
68	Variable stiffness ankle actuator for use in robotic-assisted walking: Control strategy and experimental characterization. Mechanism and Machine Theory, 2019, 134, 604-624.	4.5	41
69	Dynamically Stepping Over Obstacles by the Humanoid Robot HRP-2. , 2006, , .		40
70	Optimizing the power and energy consumption of powered prosthetic ankles with series and parallel elasticity. Mechanism and Machine Theory, 2017, 116, 419-432.	4.5	40
71	Smart Collaborative Systems for Enabling Flexible and Ergonomic Work Practices [Industry Activities]. IEEE Robotics and Automation Magazine, 2020, 27, 169-176.	2.0	40
72	How do typically developing children and children with autism perceive different social robots?. Computers in Human Behavior, 2014, 41, 268-277.	8.5	39

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73	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. IEEE Robotics and Automation Letters, 2018, 3, 16-21.	5.1	39
74	A biomechatronical transtibial prosthesis powered by pleated pneumatic artificial muscles. International Journal of Modelling, Identification and Control, 2008, 4, 394.	0.2	38
75	Development of a self-healing soft pneumatic actuator: a first concept. Bioinspiration and Biomimetics, 2015, 10, 046007.	2.9	38
76	Design and evaluation of a torque-controllable knee joint actuator with adjustable series compliance and parallel elasticity. Mechanism and Machine Theory, 2018, 130, 71-85.	4.5	37
77	Proxy-Based Sliding Mode Control of a Manipulator Actuated by Pleated Pneumatic Artificial Muscles. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	36
78	Variable impedance actuators: Moving the robots of tomorrow. , 2012, , .		36
79	Design of a collaborative architecture for human-robot assembly tasks. , 2017, , .		36
80	Multi-Axis Force Sensor for Humanâ€“Robot Interaction Sensing in a Rehabilitation Robotic Device. Sensors, 2017, 17, 1294.	3.8	36
81	Powered ankle-foot orthoses: the effects of the assistance on healthy and impaired users while walking. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 86.	4.6	36
82	Multi-level control of zero-moment point-based humanoid biped robots: a review. Robotica, 2016, 34, 2440-2466.	1.9	35
83	The Ankle Mimicking Prosthetic Foot 3â€”Locking mechanisms, actuator design, control and experiments with an amputee. Robotics and Autonomous Systems, 2017, 91, 327-336.	5.1	35
84	Robot Enhanced Therapy for Children with Autism (DREAM): A Social Model of Autism. IEEE Technology and Society Magazine, 2018, 37, 30-39.	0.8	35
85	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible Dielsâ€“Alder Bonds. Actuators, 2020, 9, 34.	2.3	35
86	Ankle-Knee prosthesis with powered ankle and energy transfer for CYBERLEGs α-prototype. , 2013, 2013, 6650352.		34
87	Passive Ankle-Foot Prosthesis Prototype with Extended Push-Off. International Journal of Advanced Robotic Systems, 2013, 10, 101.	2.1	34
88	EtherCAT Tutorial: An Introduction for Real-Time Hardware Communication on Windows [Tutorial]. IEEE Robotics and Automation Magazine, 2018, 25, 22-122.	2.0	34
89	An industrial exoskeleton user acceptance framework based on a literature review of empirical studies. Applied Ergonomics, 2022, 100, 103615.	3.1	34
90	An exoskeleton for gait rehabilitation: Prototype design and control principle. , 2008, , .		33

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91	The Safety of a Robot Actuated by Pneumatic Musclesâ€"A Case Study. International Journal of Social Robotics, 2010, 2, 289-303.	4.6	33
92	The AMP-Foot 2.0: Mimicking intact ankle behavior with a powered transtibial prosthesis. , 2012, , .		33
93	Proxy-based position control of manipulators with passive compliant actuators: Stability analysis and experiments. Robotics and Autonomous Systems, 2016, 75, 398-408.	5.1	33
94	Biarticular elements as a contributor to energy efficiency: biomechanical review and application in bio-inspired robotics. Bioinspiration and Biomimetics, 2017, 12, 061001.	2.9	33
95	Mechatronic design of a sit-to-stance exoskeleton. , 2014, , .		32
96	Attitudes of Factory Workers towards Industrial and Collaborative Robots. , 2017, , .		32
97	Room Temperature Self-Healing in Soft Pneumatic Robotics: Autonomous Self-Healing in a Diels-Alder Polymer Network. IEEE Robotics and Automation Magazine, 2020, 27, 44-55.	2.0	32
98	The MACCEPA actuation system as torque actuator in the gait rehabilitation robot ALTACRO. , 2010, , .		31
99	Reduction of the torque requirements of an active ankle prosthesis using a parallel spring. Robotics and Autonomous Systems, 2017, 92, 187-196.	5.1	31
100	Bilateral, Misalignment-Compensating, Full-DOF Hip Exoskeleton: Design and Kinematic Validation. Applied Bionics and Biomechanics, 2017, 2017, 1-14.	1.1	31
101	The Sensor-Based Biomechanical Risk Assessment at the Base of the Need for Revising of Standards for Human Ergonomics. Sensors, 2020, 20, 5750.	3.8	31
102	Dynamic Stabilisation of the Biped Lucy Powered by Actuators with Controllable Stiffness. Springer Tracts in Advanced Robotics, 2010, , .	0.4	29
103	Concept of a Series-Parallel Elastic Actuator for a Powered Transtibial Prosthesis. Actuators, 2013, 2, 59-73.	2.3	29
104	A Sensorized Soft Pneumatic Actuator Fabricated with Extrusion-Based Additive Manufacturing. Actuators, 2021, 10, 102.	2.3	29
105	The AMP-Foot 2.1 : actuator design, control and experiments with an amputee. Robotica, 2014, 32, 1347-1361.	1.9	28
106	The AMP-Foot 3, new generation propulsive prosthetic feet with explosive motion characteristics: design and validation. BioMedical Engineering OnLine, 2016, 15, 145.	2.7	28
107	Real-time motion control of robotic manipulators for safe humanâ€"robot coexistence. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102223.	9.9	28
108	Control architecture for the pneumatically actuated dynamic walking biped â€œLucyâ€• Mechatronics, 2005, 15, 703-729.	3.3	27

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109	MACCEPA: the mechanically adjustable compliance and controllable equilibrium position actuator for 'controlled passive walking'. , 0, , .		27
110	Modeling Hysteresis in Pleated Pneumatic Artificial Muscles. , 2008, , .		27
111	Stabilization for the compliant humanoid robot COMAN exploiting intrinsic and controlled compliance. , 2012, , .		27
112	Mechanical design of a lightweight compliant and adaptable active ankle foot orthosis. , 2016, , .		27
113	The DREAM Dataset: Supporting a data-driven study of autism spectrum disorder and robot enhanced therapy. PLoS ONE, 2020, 15, e0236939.	2.5	27
114	How to achieve the huggable behavior of the social robot Probo? A reflection on the actuators. Mechatronics, 2011, 21, 490-500.	3.3	26
115	Modeling and design of an energy-efficient dual-motor actuation unit with a planetary differential and holding brakes. Mechatronics, 2018, 49, 134-148.	3.3	26
116	Energetic analysis and optimization of a MACCEPA actuator in an ankle prosthesis. Autonomous Robots, 2018, 42, 147-158.	4.8	26
117	Fabrication of a Soft Robotic Gripper With Integrated Strain Sensing Elements Using Multi-Material Additive Manufacturing. Frontiers in Robotics and AI, 2021, 8, 615991.	3.2	26
118	A Motion System for Social and Animated Robots. International Journal of Advanced Robotic Systems, 2014, 11, 72.	2.1	25
119	Sliding-Bar MACCEPA for a Powered Ankle Prosthesis. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	25
120	Objective locomotion parameters based inverted pendulum trajectory generator. Robotics and Autonomous Systems, 2008, 56, 738-750.	5.1	24
121	INTEGRATING WALKING AND VISION TO INCREASE HUMANOID AUTONOMY. International Journal of Humanoid Robotics, 2008, 05, 287-310.	1.1	24
122	Successful Preliminary Walking Experiments on a Transtibial Amputee Fitted with a Powered Prosthesis. Prosthetics and Orthotics International, 2009, 33, 368-377.	1.0	24
123	New Friends: Social Robots in Therapy and Education. International Journal of Social Robotics, 2016, 8, 443-444.	4.6	24
124	Toward Self-Healing Actuators: A Preliminary Concept. IEEE Transactions on Robotics, 2016, 32, 736-743.	10.3	24
125	The Challenges and Achievements of Experimental Implementation of an Active Transfemoral Prosthesis Based on Biological Quasi-Stiffness: The CYBERLEGs Beta-Prosthesis. Frontiers in Neurorobotics, 2018, 12, 80.	2.8	24
126	Trajectory Planning for the Walking Biped â€œLucyâ€• International Journal of Robotics Research, 2006, 25, 867-887.	8.5	23

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127	Proxy-based sliding mode control of a robotic ankle-foot system for post-stroke rehabilitation. Advanced Robotics, 2016, 30, 992-1003.	1.8	23
128	Modeling, Design and Test-Bench Validation of a Semi-Active Propulsive Ankle Prosthesis With a Clutched Series Elastic Actuator. IEEE Robotics and Automation Letters, 2019, 4, 1823-1830.	5.1	23
129	Water/air performance analysis of a fluidic muscle. , 2010, , .		22
130	Mobility of Humanoid Robots: Stepping over Large Obstacles Dynamically. , 2006, , .		21
131	Exploiting adaptable passive behaviour to influence natural dynamics applied to legged robots. Robotica, 2005, 23, 149-158.	1.9	20
132	Design and Development of Customized Physical Interfaces to Reduce Relative Motion Between the User and a Powered Ankle Foot Exoskeleton. , 2018, , .		20
133	A Hopping Robot Driven by a Series Elastic Dual-Motor Actuator. IEEE Robotics and Automation Letters, 2019, 4, 2310-2316.	5.1	20
134	A Personalized and Platform-Independent Behavior Control System for Social Robots in Therapy: Development and Applications. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 334-346.	3.8	20
135	Robot-Enhanced CBT for dysfunctional emotions in social situations for children with ASD. Journal of Evidence-Based Psychotherapies, 2017, 17, 119-132.	0.5	20
136	Design of a modular add-on compliant actuator to convert an orthosis into an assistive exoskeleton. , 2014, , .		19
137	A muscle-like recruitment actuator with modular redundant actuation units for soft robotics. Robotics and Autonomous Systems, 2015, 74, 40-50.	5.1	19
138	Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. IEEE Transactions on Biomedical Engineering, 2018, 65, 1399-1409.	4.2	19
139	Sensing-Enhanced Therapy System for Assessing Children With Autism Spectrum Disorders: A Feasibility Study. IEEE Sensors Journal, 2019, 19, 1508-1518.	4.7	19
140	Robot-Assisted Joint Attention: A Comparative Study Between Children With Autism Spectrum Disorder and Typically Developing Children in Interaction With NAO. IEEE Access, 2020, 8, 223325-223334.	4.2	19
141	Structureâ€“Property Relationships of Self-Healing Polymer Networks Based on Reversible Dielsâ€“Alder Chemistry. Macromolecules, 2022, 55, 5497-5513.	4.8	19
142	Instrumenting complex exoskeletons for improved human-robot interaction. IEEE Instrumentation and Measurement Magazine, 2015, 18, 5-10.	1.6	18
143	+SPEA introduction: Drastic actuator energy requirement reduction by symbiosis of parallel motors, springs and locking mechanisms. , 2016, , .		18
144	Design and evaluation of a DIY construction system for educational robot kits. International Journal of Technology and Design Education, 2016, 26, 521-540.	2.6	18

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145	VUB-CYBERLEGs CYBATHLON 2016 Beta-Prosthesis: case study in control of an active two degree of freedom transfemoral prosthesis. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 3.	4.6	18
146	Independent load carrying and measurement manipulator robot arm for improved payload to mass ratio. Robotics and Computer-Integrated Manufacturing, 2018, 53, 135-140.	9.9	18
147	Scaling laws for robotic transmissions. Mechanism and Machine Theory, 2019, 140, 601-621.	4.5	18
148	Walking with a powered ankle-foot orthosis: the effects of actuation timing and stiffness level on healthy users. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 98.	4.6	18
149	A Virtual Element-Based Postural Optimization Method for Improved Ergonomics During Human-Robot Collaboration. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1772-1783.	5.2	18
150	Torqueâ€“stiffness-controlled dynamic walking with central pattern generators. Biological Cybernetics, 2014, 108, 803-823.	1.3	17
151	Conceptual design of a novel variable stiffness actuator for use in lower limb exoskeletons. , 2015, , .		17
152	A Multi-Material Self-Healing Soft Gripper. , 2019, , .		17
153	A Novel Wolfrom-Based Gearbox for Robotic Actuators. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1980-1988.	5.8	17
154	Developing new frontiers in the Rubber Hand Illusion: Design of an open source robotic hand to better understand prosthetics. , 2014, , .		16
155	Development of a generic method to generate upper-body emotional expressions for different social robots. Advanced Robotics, 2015, 29, 597-609.	1.8	16
156	A Variable Stiffness Actuator Module With Favorable Mass Distribution for a Bio-inspired Biped Robot. Frontiers in Neurorobotics, 2019, 13, 20.	2.8	16
157	In or out? A field observational study on the placement of entertaining robots in retailing. International Journal of Retail and Distribution Management, 2021, 49, 846-874.	4.7	16
158	The Influence of the Furan and Maleimide Stoichiometry on the Thermoreversible Dielsâ€“Alder Network Polymerization. Polymers, 2021, 13, 2522.	4.5	16
159	CYBERLEGS Beta-Prosthesis active knee system. , 2015, , .		15
160	Torsion MACCEPA: A novel compact compliant actuator designed around the drive axis. , 2015, , .		15
161	Guidelines and Recommendations to Investigate the Efficacy of a Lower-Limb Prosthetic Device: A Systematic Review. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 279-296.	3.2	15
162	A Reinforcement Learning Based Cognitive Empathy Framework for Social Robots. International Journal of Social Robotics, 2021, 13, 1079-1093.	4.6	15

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163	Investigating the Effects of Strapping Pressure on Human-Robot Interface Dynamics Using a Soft Robotic Cuff. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 146-155.	3.2	15
164	Benchmarking Human-Like Posture and Locomotion of Humanoid Robots: A Preliminary Scheme. Lecture Notes in Computer Science, 2014, , 320-331.	1.3	15
165	MACCEPA, The mechanically adjustable compliance and controllable equilibrium position actuator: A 3DOF joint with two independent compliances. International Applied Mechanics, 2007, 43, 467-474.	0.6	14
166	Sliding mode control of a â€œSoftâ€•2-DOF Planar Pneumatic Manipulator. International Applied Mechanics, 2008, 44, 1191-1199.	0.6	14
167	A Collaborative Homeostatic-Based Behavior Controller for Social Robots in Humanâ€“Robot Interaction Experiments. International Journal of Social Robotics, 2017, 9, 675-690.	4.6	14
168	Kinematically redundant actuators, a solution for conflicting torqueâ€“speed requirements. International Journal of Robotics Research, 2019, 38, 612-629.	8.5	14
169	How using brain-machine interfaces influences the human sense of agency. PLoS ONE, 2021, 16, e0245191.	2.5	14
170	An Autonomous Cognitive Empathy Model Responsive to Usersâ€™ Facial Emotion Expressions. ACM Transactions on Interactive Intelligent Systems, 2020, 10, 1-23.	3.7	14
171	Torque and compliance control of the pneumatic artificial muscles in the biped "Lucy". , 0, , .		13
172	MOTION GENERATION AND CONTROL FOR THE PNEUMATIC BIPED "LUCY". International Journal of Humanoid Robotics, 2006, 03, 67-103.	1.1	13
173	Trajectory generation of straightened knee walking for humanoid robot iCub. , 2010, , .		13
174	Enhancing Emotional Facial Expressiveness on NAO. International Journal of Social Robotics, 2016, 8, 513-521.	4.6	13
175	Bi-directional series-parallel elastic actuator and overlap of the actuation layers. Bioinspiration and Biomimetics, 2016, 11, 016005.	2.9	13
176	A pneumatic biped: experimental walking results and compliance adaptation experiments.. , 0, , .		12
177	A Survey on Behavior Control Architectures for Social Robots in Healthcare Interventions. International Journal of Humanoid Robotics, 2017, 14, 1750021.	1.1	12
178	Online Reconfiguration of a Variable-Stiffness Actuator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1866-1876.	5.8	12
179	Studying Design Aspects for Social Robots Using a Generic Gesture Method. International Journal of Social Robotics, 2019, 11, 651-663.	4.6	12
180	Accelerating Interactive Reinforcement Learning by Human Advice for an Assembly Task by a Cobot. Robotics, 2019, 8, 104.	3.5	12

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181	Design, Optimization and Energetic Evaluation of an Efficient Fully Powered Ankle-Foot Prosthesis With a Series Elastic Actuator. IEEE Access, 2020, 8, 61491-61503.	4.2	12
182	Supramolecular Self-Healing Sensor Fiber Composites for Damage Detection in Piezoresistive Electronic Skin for Soft Robots. Polymers, 2021, 13, 2983.	4.5	12
183	Fast and Accurate Pressure Control using On-Off Valves. International Journal of Fluid Power, 2005, 6, 53-58.	0.7	11
184	The mechanical design of the new lower body for the child humanoid robot ‘iCub’. , 2009, , .		11
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