

# Bram Vanderborght

## 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.

302  
papers

7,375  
citations

40  
h-index

74  
g-index

336  
ext. papers

9,323  
ext. citations

3.2  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
302	Prismatic gravity compensator for variable payloads. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	0
301	A Healable Resistive Heater as a Stimuli-Providing System in Self-Healing Soft Robots. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	1
300	A Virtual Element-Based Postural Optimization Method for Improved Ergonomics During Human-Robot Collaboration. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-12	4.9	2
299	Safe, Fast, and Efficient Distributed Receding Horizon Constrained Control of Aerial Robot Swarms. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	
298	Human-Robot Collaboration (HRC) Technologies for Reducing Work-Related Musculoskeletal Diseases in Industry 4.0. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 335-342	0.5	3
297	Real-time motion control of robotic manipulators for safe human-robot coexistence. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2022</b> , 73, 102223	9.2	1
296	Series Parallel Elastic Actuator: Variable Recruitment of Parallel Springs for Partial Gravity Compensation. <i>Mechanisms and Machine Science</i> , <b>2022</b> , 101-123	0.3	
295	Novel SPECTA Actuator to Improve Energy Recuperation and Efficiency. <i>Actuators</i> , <b>2022</b> , 11, 64	2.4	0
294	Transparent Interaction Based Learning for Human-Robot Collaboration.. <i>Frontiers in Robotics and AI</i> , <b>2022</b> , 9, 754955	2.8	0
293	The Role of Robotics in Achieving the United Nations Sustainable Development Goals—the Experts Meeting at the 2021 IEEE/RSJ IROS Workshop [Industry Activities]. <i>IEEE Robotics and Automation Magazine</i> , <b>2022</b> , 29, 92-107	3.4	1
292	An industrial exoskeleton user acceptance framework based on a literature review of empirical studies. <i>Applied Ergonomics</i> , <b>2021</b> , 100, 103615	4.2	1
291	FEA-Based Inverse Kinematic Control: Hyperelastic Material Characterization of Self-Healing Soft Robots. <i>IEEE Robotics and Automation Magazine</i> , <b>2021</b> , 2-12	3.4	2
290	Processing of Self-Healing Polymers for Soft Robotics. <i>Advanced Materials</i> , <b>2021</b> , e2104798	24	10
289	Autonomous assembly planning of demonstrated skills with reinforcement learning in simulation. <i>Autonomous Robots</i> , <b>2021</b> , 45, 1097	3	1
288	Improved Motion Classification With an Integrated Multimodal Exoskeleton Interface. <i>Frontiers in Neurorobotics</i> , <b>2021</b> , 15, 693110	3.4	
287	SMARCOS: Off-the-Shelf Smart Compliant Actuators for Human-Robot Applications. <i>Actuators</i> , <b>2021</b> , 10, 289	2.4	1
286	Integration of 3D Printed Flexible Pressure Sensors into Physical Interfaces for Wearable Robots. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3

285	Overload Clutch Design for Collision Tolerant HighSpeed Industrial Robots. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 863-870	4.2	1
284	In or out? A field observational study on the placement of entertaining robots in retailing. <i>International Journal of Retail and Distribution Management</i> , <b>2021</b> , ahead-of-print,	3.5	5
283	A Sensorized Soft Pneumatic Actuator Fabricated with Extrusion-Based Additive Manufacturing. <i>Actuators</i> , <b>2021</b> , 10, 102	2.4	6
282	A Soft Pneumatic Actuator with Integrated Deformation Sensing Elements Produced Exclusively with Extrusion Based Additive Manufacturing. <i>Engineering Proceedings</i> , <b>2021</b> , 6, 11	0.5	1
281	Invariant Set Distributed Explicit Reference Governors for Provably Safe On-Board Control of Nano-Quadrotor Swarms. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 663809	2.8	3
280	A Reinforcement Learning Based Cognitive Empathy Framework for Social Robots. <i>International Journal of Social Robotics</i> , <b>2021</b> , 13, 1079-1093	4	8
279	Investigating the Effects of Strapping Pressure on Human-Robot Interface Dynamics Using a Soft Robotic Cuff. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2021</b> , 3, 146-155	3.1	6
278	How using brain-machine interfaces influences the human sense of agency. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245191	3.7	4
277	Piezoresistive sensor fiber composites based on silicone elastomers for the monitoring of the position of a robot arm. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 318, 112433	3.9	17
276	The Influence of the Furan and Maleimide Stoichiometry on the Thermoreversible Diels-Alder Network Polymerization. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
275	A generic algorithm for computing optimal ergonomic postures during working in an industrial environment. <i>International Journal of Industrial Ergonomics</i> , <b>2021</b> , 84, 103145	2.9	1
274	A review on self-healing polymers for soft robotics. <i>Materials Today</i> , <b>2021</b> , 47, 187-205	21.8	32
273	Prevalence and incidence of work-related musculoskeletal disorders in secondary industries of 21st century Europe: a systematic review and meta-analysis. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 751	2.8	9
272	A Novel Wolfram-Based Gearbox for Robotic Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1980-1988	5.5	4
271	From stopping to shopping: An observational study comparing a humanoid service robot with a tablet service kiosk to attract and convert shoppers. <i>Journal of Business Research</i> , <b>2021</b> , 134, 263-274	8.7	11
270	Supramolecular Self-Healing Sensor Fiber Composites for Damage Detection in Piezoresistive Electronic Skin for Soft Robots. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
269	Fabrication of a Soft Robotic Gripper With Integrated Strain Sensing Elements Using Multi-Material Additive Manufacturing.. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 615991	2.8	1
268	The Sensor-Based Biomechanical Risk Assessment at the Base of the Need for Revising of Standards for Human Ergonomics. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14

267	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible Diels-Alder Bonds. <i>Actuators</i> , <b>2020</b> , 9, 34	2.4	15
266	Smart Collaborative Systems for Enabling Flexible and Ergonomic Work Practices [Industry Activities]. <i>IEEE Robotics and Automation Magazine</i> , <b>2020</b> , 27, 169-176	3.4	21
265	Additive Manufacturing for Self-Healing Soft Robots. <i>Soft Robotics</i> , <b>2020</b> , 7, 711-723	9.2	19
264	Design, Optimization and Energetic Evaluation of an Efficient Fully Powered Ankle-Foot Prosthesis With a Series Elastic Actuator. <i>IEEE Access</i> , <b>2020</b> , 8, 61491-61503	3.5	3
263	Social Processes: What Determines Industrial Workers' Intention to Use Exoskeletons?. <i>Human Factors</i> , <b>2020</b> , 62, 337-350	3.8	12
262	Varying mechanical compliance benefits energy efficiency of a knee joint actuator. <i>Mechatronics</i> , <b>2020</b> , 66, 102318	3	4
261	Improving the performance of industrial machines with variable stiffness springs. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-20	1.7	3
260	Opportunities for Women in Robotics [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2020</b> , 27, 4-21	3.4	1
259	. <i>IEEE Robotics and Automation Magazine</i> , <b>2020</b> , 27, 44-55	3.4	9
258	An Autonomous Cognitive Empathy Model Responsive to Users' Facial Emotion Expressions. <i>ACM Transactions on Interactive Intelligent Systems</i> , <b>2020</b> , 10, 1-23	1.8	7
257	. <i>IEEE Access</i> , <b>2020</b> , 8, 223325-223334	3.5	7
256	A Review of Gait Phase Detection Algorithms for Lower Limb Prostheses. <i>Sensors</i> , <b>2020</b> , 20,	3.8	24
255	Walking with a powered ankle-foot orthosis: the effects of actuation timing and stiffness level on healthy users. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2020</b> , 17, 98	5.3	8
254	<b>2020</b> ,		1
253	United Against Racism and a Call for Action [Ethical, Legal, and Societal Issues]. <i>IEEE Robotics and Automation Magazine</i> , <b>2020</b> , 27, 10-11	3.4	1
252	The DREAM Dataset: Supporting a data-driven study of autism spectrum disorder and robot enhanced therapy. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236939	3.7	6
251	Novel Lockable and Stackable Compliant Actuation Unit for Modular +SPEA Actuators. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 4445-4451	4.2	4
250	The influence of stereochemistry on the reactivity of the Diels-Alder cycloaddition and the implications for reversible network polymerization. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 473-485	4.9	39

249	Kinematically redundant actuators, a solution for conflicting torque&speed requirements. <i>International Journal of Robotics Research</i> , <b>2019</b> , 38, 612-629	5.7	8
248	Scaling laws of compliant elements for high energy storage capacity in robotics. <i>Mechanism and Machine Theory</i> , <b>2019</b> , 139, 482-505	4	4
247	Robot-Enhanced Therapy: Development and Validation of Supervised Autonomous Robotic System for Autism Spectrum Disorders Therapy. <i>IEEE Robotics and Automation Magazine</i> , <b>2019</b> , 26, 49-58	3.4	32
246	A Variable Stiffness Actuator Module With Favorable Mass Distribution for a Bio-inspired Biped Robot. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 20	3.4	10
245	Robotic Dreams, Robotic Realities [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2019</b> , 26, 4-5	3.4	2
244	A Hopping Robot Driven by a Series Elastic Dual-Motor Actuator. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 2310-2316	4.2	9
243	Cognitive performance and brain dynamics during walking with a novel bionic foot: A pilot study. <i>PLoS ONE</i> , <b>2019</b> , 14, e0214711	3.7	4
242	Studying Design Aspects for Social Robots Using a Generic Gesture Method. <i>International Journal of Social Robotics</i> , <b>2019</b> , 11, 651-663	4	7
241	Modeling, Design and Test-Bench Validation of a Semi-Active Propulsive Ankle Prosthesis With a Clutched Series Elastic Actuator. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 1823-1830	4.2	15
240	Why Children Prefer Extrovert or Introvert Robots: A Pilot Study Using Pairwise Robot Comparison <b>2019</b> ,		1
239	Scaling laws for robotic transmissions. <i>Mechanism and Machine Theory</i> , <b>2019</b> , 140, 601-621	4	6
238	A Multi-Material Self-Healing Soft Gripper <b>2019</b> ,		8
237	Energetic Advantages of Constant Torque Springs in Series Parallel Elastic Actuators <b>2019</b> ,		1
236	Customizing planetary gear trains for human limb assistance and replication. <i>MATEC Web of Conferences</i> , <b>2019</b> , 287, 01014	0.3	1
235	Guidelines and Recommendations to Investigate the Efficacy of a Lower-Limb Prosthetic Device: A Systematic Review. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2019</b> , 1, 279-296	3.1	7
234	Decisions, Decisions [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2019</b> , 26, 4-13	3.4	
233	Trunk Range of Motion in the Sagittal Plane with and Without a Flexible Back Support Exoskeleton. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 239-243	0.2	
232	A Series Elastic Dual-Motor Actuator Concept for Wearable Robotics. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 165-169	0.2	4

231	Failure Mode and Effect Analysis (FMEA)-Driven Design of a Planetary Gearbox for Active Wearable Robotics. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 460-464	0.2	3
230	Introducing Compound Planetary Gears (C-PGTs): A Compact Way to Achieve High Gear Ratios for Wearable Robots. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 485-489	0.2	3
229	Task allocation for improved ergonomics in Human-Robot Collaborative Assembly. <i>Interaction Studies</i> , <b>2019</b> , 20, 102-133	1.3	18
228	Blmm, Did You Hear What I Just Said? Development of a Re-Engagement System for Socially Interactive Robots. <i>Robotics</i> , <b>2019</b> , 8, 95	2.8	1
227	The Right to Fail [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2019</b> , 26, 4-19	3.4	1
226	Accelerating Interactive Reinforcement Learning by Human Advice for an Assembly Task by a Cobot. <i>Robotics</i> , <b>2019</b> , 8, 104	2.8	6
225	Variable stiffness ankle actuator for use in robotic-assisted walking: Control strategy and experimental characterization. <i>Mechanism and Machine Theory</i> , <b>2019</b> , 134, 604-624	4	29
224	Sensing-Enhanced Therapy System for Assessing Children With Autism Spectrum Disorders: A Feasibility Study. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1508-1518	4	12
223	DualKeepon: a human-robot interaction testbed to study linguistic features of speech. <i>Intelligent Service Robotics</i> , <b>2019</b> , 12, 45-54	2.6	2
222	A Personalized and Platform-Independent Behavior Control System for Social Robots in Therapy: Development and Applications. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2019</b> , 11, 334-346	3	13
221	Metabolic Effects Induced by a Kinematically Compatible Hip Exoskeleton During STS. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1399-1409	5	16
220	VUB-CYBERLEGS CYBATHLON 2016 Beta-Prosthesis: case study in control of an active two degree of freedom transfemoral prosthesis. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2018</b> , 15, 3	5.3	10
219	Independent load carrying and measurement manipulator robot arm for improved payload to mass ratio. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2018</b> , 53, 135-140	9.2	11
218	Modeling and design of an energy-efficient dual-motor actuation unit with a planetary differential and holding brakes. <i>Mechatronics</i> , <b>2018</b> , 49, 134-148	3	17
217	Technology Is Not Neutral [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 4-4	3.4	1
216	. <i>IEEE Technology and Society Magazine</i> , <b>2018</b> , 37, 30-39	0.8	23
215	EtherCAT Tutorial: An Introduction for Real-Time Hardware Communication on Windows [Tutorial]. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 22-122	3.4	23
214	Energetic analysis and optimization of a MACCEPA actuator in an ankle prosthesis. <i>Autonomous Robots</i> , <b>2018</b> , 42, 147-158	3	12

213	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 16-21	4.2	23
212	Generic method for generating blended gestures and affective functional behaviors for social robots. <i>Autonomous Robots</i> , <b>2018</b> , 42, 569-580	3	5
211	Passive Back Support Exoskeleton Improves Range of Motion Using Flexible Beams. <i>Frontiers in Robotics and AI</i> , <b>2018</b> , 5, 72	2.8	74
210	Humanoid Robot Pepper at a Belgian Chocolate Shop <b>2018</b> ,		5
209	Design and evaluation of a torque-controllable knee joint actuator with adjustable series compliance and parallel elasticity. <i>Mechanism and Machine Theory</i> , <b>2018</b> , 130, 71-85	4	24
208	ED-FNN: A New Deep Learning Algorithm to Detect Percentage of the Gait Cycle for Powered Prostheses. <i>Sensors</i> , <b>2018</b> , 18,	3.8	36
207	Novel control strategy for the +SPEA: A redundant actuator with reconfigurable parallel elements. <i>Mechatronics</i> , <b>2018</b> , 53, 28-38	3	7
206	Constrained Control of Robotic Manipulators Using the Explicit Reference Governor <b>2018</b> ,		2
205	An Overview on Principles for Energy Efficient Robot Locomotion. <i>Frontiers in Robotics and AI</i> , <b>2018</b> , 5, 129	2.8	22
204	Misalignment Compensation for Full Human-Exoskeleton Kinematic Compatibility: State of the Art and Evaluation. <i>Applied Mechanics Reviews</i> , <b>2018</b> , 70,	8.6	36
203	Coordinating Conference and Journal Papers [From the Editor]. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 4-4	3-4	
202	On Reproducible Research [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 4-4	3-4	
201	Design and Development of Customized Physical Interfaces to Reduce Relative Motion Between the User and a Powered Ankle Foot Exoskeleton <b>2018</b> ,		10
200	The Challenges and Achievements of Experimental Implementation of an Active Transfemoral Prosthesis Based on Biological Quasi-Stiffness: The CYBERLEGS Beta-Prosthesis. <i>Frontiers in Neurorobotics</i> , <b>2018</b> , 12, 80	3.4	15
199	Powered ankle-foot orthoses: the effects of the assistance on healthy and impaired users while walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2018</b> , 15, 86	5.3	19
198	The effects of variable mechanical parameters on peak power and energy consumption of ankle-foot prostheses at different speeds. <i>Advanced Robotics</i> , <b>2018</b> , 32, 1229-1240	1.7	6
197	On the Electrical Energy Consumption of Active Ankle Prostheses with Series and Parallel Elastic Elements <b>2018</b> ,		6
196	Evaluation and Analysis of Push-Pull Cable Actuation System Used for Powered Orthoses. <i>Frontiers in Robotics and AI</i> , <b>2018</b> , 5, 105	2.8	5



195	Online Reconfiguration of a Variable-Stiffness Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1866-1876	5.5	8
194	Working with Walt: How a Cobot Was Developed and Inserted on an Auto Assembly Line. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 51-58	3.4	41
193	Humans and Robots Working Together [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2018</b> , 25, 4-4	3.4	
192	The Ankle Mimicking Prosthetic Foot 3Dlocking mechanisms, actuator design, control and experiments with an amputee. <i>Robotics and Autonomous Systems</i> , <b>2017</b> , 91, 327-336	3.5	20
191	Do-It-Yourself Design for Social Robots: An Open-Source Hardware Platform to Encourage Innovation. <i>IEEE Robotics and Automation Magazine</i> , <b>2017</b> , 24, 86-94	3.4	4
190	A Collaborative Homeostatic-Based Behavior Controller for Social Robots in HumanRobot Interaction Experiments. <i>International Journal of Social Robotics</i> , <b>2017</b> , 9, 675-690	4	11
189	Attitudes of Factory Workers towards Industrial and Collaborative Robots <b>2017</b> ,		21
188	Design of Smart Modular Variable Stiffness Actuators for Robotic-Assistive Devices. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 1777-1785	5.5	41
187	How to Build a Supervised Autonomous System for Robot-Enhanced Therapy for Children with Autism Spectrum Disorder. <i>Paladyn</i> , <b>2017</b> , 8, 18-38	2.3	77
186	Reduction of the torque requirements of an active ankle prosthesis using a parallel spring. <i>Robotics and Autonomous Systems</i> , <b>2017</b> , 92, 187-196	3.5	21
185	Study on electric energy consumed in intermittent series-parallel elastic actuators (iSPEA). <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 036008	2.6	4
184	Legged Robots with Bioinspired Morphology <b>2017</b> , 457-561		3
183	Design and experimental evaluation of a lightweight, high-torque and compliant actuator for an active ankle foot orthosis. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2017</b> , 2017, 283-288	1.3	9
182	Towards low back support with a passive biomimetic exo-spine. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2017</b> , 2017, 1165-1170	1.3	9
181	A Survey on Behavior Control Architectures for Social Robots in Healthcare Interventions. <i>International Journal of Humanoid Robotics</i> , <b>2017</b> , 14, 1750021	1.2	7
180	Biarticular elements as a contributor to energy efficiency: biomechanical review and application in bio-inspired robotics. <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 061001	2.6	19
179	Self-healing soft pneumatic robots. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	224
178	Optimizing the power and energy consumption of powered prosthetic ankles with series and parallel elasticity. <i>Mechanism and Machine Theory</i> , <b>2017</b> , 116, 419-432	4	28



177	Compliant Lightweight Actuator Designs for Robotic Assistance and Rehabilitation Exoskeletons. <i>Biosystems and Biorobotics</i> , <b>2017</b> , 1383-1387	0.2	
176	Series and Parallel Elastic Actuation: Influence of Operating Positions on Design and Control. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 521-529	5.5	31
175	On the Importance of a Motor Model for the Optimization of SEA-driven Prosthetic Ankles. <i>Biosystems and Biorobotics</i> , <b>2017</b> , 403-407	0.2	2
174	A Compliant Lightweight and Adaptable Active Ankle Foot Orthosis for Robotic Rehabilitation. <i>Biosystems and Biorobotics</i> , <b>2017</b> , 45-49	0.2	4
173	Discrete binary muscle-inspired actuation with motor unit overpowering and binary control strategy <b>2017</b> ,		1
172	<b>2017</b> ,		16
171	A novel modular compliant knee joint actuator for use in assistive and rehabilitation orthoses <b>2017</b> ,		4
170	Publication Impact Factors and Submission-to-Decision Times [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2017</b> , 24, 4-6	3-4	
169	Multi-Axis Force Sensor for Human-Robot Interaction Sensing in a Rehabilitation Robotic Device. <i>Sensors</i> , <b>2017</b> , 17,	3.8	24
168	Actuation in Legged Locomotion <b>2017</b> , 563-622		8
167	Bilateral, Misalignment-Compensating, Full-DOF Hip Exoskeleton: Design and Kinematic Validation. <i>Applied Bionics and Biomechanics</i> , <b>2017</b> , 2017, 5813154	1.6	17
166	Robot-Enhanced CBT for dysfunctional emotions in social situations for children with ASD. <i>Journal of Evidence-Based Psychotherapies</i> , <b>2017</b> , 17, 119-132	0.6	15
165	An End-User Interface to Generate Homeostatic Behavior for NAO Robot in Robot-Assisted Social Therapies. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 609-619	0.9	1
164	Proxy-based position control of manipulators with passive compliant actuators: Stability analysis and experiments. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 75, 398-408	3.5	15
163	Design and evaluation of a DIY construction system for educational robot kits. <i>International Journal of Technology and Design Education</i> , <b>2016</b> , 26, 521-540	1.1	14
162	Children with Autism Spectrum Disorders Make a Fruit Salad with Probo, the Social Robot: An Interaction Study. <i>Journal of Autism and Developmental Disorders</i> , <b>2016</b> , 46, 113-126	4.6	54
161	A Survey of Expectations About the Role of Robots in Robot-Assisted Therapy for Children with ASD: Ethical Acceptability, Trust, Sociability, Appearance, and Attachment. <i>Science and Engineering Ethics</i> , <b>2016</b> , 22, 47-65	3.1	101
160	Multi-level control of zero-moment point-based humanoid biped robots: a review. <i>Robotica</i> , <b>2016</b> , 34, 2440-2466	2.1	18

159	Mechanical design of a lightweight compliant and adaptable active ankle foot orthosis <b>2016</b> ,		20
158	Another Five Successful Years [From the Editor's Desk]. <i>IEEE Robotics and Automation Magazine</i> , <b>2016</b> , 23, 4-4	3-4	
157	Toward Self-Healing Actuators: A Preliminary Concept. <i>IEEE Transactions on Robotics</i> , <b>2016</b> , 32, 736-743	6.5	12
156	Robot Enhanced Therapy for Children with Autism Disorders: Measuring Ethical Acceptability. <i>IEEE Technology and Society Magazine</i> , <b>2016</b> , 35, 54-66	0.8	28
155	Enhancing Emotional Facial Expressiveness on NAO. <i>International Journal of Social Robotics</i> , <b>2016</b> , 8, 513-521	4	8
154	+SPEA introduction: Drastic actuator energy requirement reduction by symbiosis of parallel motors, springs and locking mechanisms <b>2016</b> ,		12
153	Reaching and pointing gestures calculated by a generic gesture system for social robots. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 83, 32-43	3.5	8
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3	Torque and compliance control of the pneumatic artificial muscles in the biped "Lucy"		10
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