

Dirk J Lefeber

List of Publications by Year in descending order

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152
papers

7,056
citations

87401

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h-index

73587

79
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152
all docs

152
docs citations

152
times ranked

6833
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the performance of industrial machines with variable stiffness springs. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 115-134.	3.4	6
2	Human Musculoskeletal and Energetic Adaptations to Unilateral Robotic Knee Gait Assistance. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1141-1150.	2.5	4
3	Prismatic Gravity Compensator for Variable Payloads. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 3749-3756.	3.3	3
4	Novel SPECTA Actuator to Improve Energy Recuperation and Efficiency. <i>Actuators</i> , 2022, 11, 64.	1.2	1
5	International consensus guidelines for phosphoglucomutase 1 deficiency (<scp>PGM1â€CDG</scp>): Diagnosis, followâ€up, and management. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 148-163.	1.7	27
6	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> , 2021, 3, 146-155.	2.1	15
7	Automatic synthesis of arthrokinematically compatible exoskeletons. A case study on its application on a shoulder occupational exoskeleton. <i>Mechanism and Machine Theory</i> , 2021, 157, 104186.	2.7	9
8	Integration of 3D Printed Flexible Pressure Sensors into Physical Interfaces for Wearable Robots. <i>Sensors</i> , 2021, 21, 2157.	2.1	11
9	A Novel Wolfrom-Based Gearbox for Robotic Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1980-1988.	3.7	17
10	Design and Evaluation of a Passive Cable-Driven Occupational Shoulder Exoskeleton. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 1020-1031.	2.1	15
11	Improved Motion Classification With an Integrated Multimodal Exoskeleton Interface. <i>Frontiers in Neurobotics</i> , 2021, 15, 693110.	1.6	2
12	Congenital disorder of glycosylation caused by starting site-specific variant in syntaxin-5. <i>Nature Communications</i> , 2021, 12, 6227.	5.8	14
13	SMARCOS: Off-the-Shelf Smart Compliant Actuators for Humanâ€Robot Applications. <i>Actuators</i> , 2021, 10, 289.	1.2	4
14	Performance of the CYBERLEGS motorized lower limb prosthetic device during simulated daily activities. <i>Wearable Technologies</i> , 2021, 2, .	1.6	2
15	A Review of Gait Phase Detection Algorithms for Lower Limb Prostheses. <i>Sensors</i> , 2020, 20, 3972.	2.1	67
16	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> , 2020, 17, 98.	2.4	18
17	Letâ€™s Make Ball Balancing Great Again: Why You Should Use Temporary Speed Reduction. <i>Machines</i> , 2020, 8, 74.	1.2	0
18	A Stiffness-Fault-Tolerant Control Strategy for an Elastically Actuated Powered Knee Orthosis. , 2020, , .		3

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19	Compact Gearboxes for Modern Robotics: A Review. <i>Frontiers in Robotics and AI</i> , 2020, 7, 103.	2.0	49
20	Varying mechanical compliance benefits energy efficiency of a knee joint actuator. <i>Mechatronics</i> , 2020, 66, 102318.	2.0	10
21	An Autonomous Cognitive Empathy Model Responsive to Users'™ Facial Emotion Expressions. <i>ACM Transactions on Interactive Intelligent Systems</i> , 2020, 10, 1-23.	2.6	14
22	Scaling laws for parallel motor-gearbox arrangements. , 2020, , .		2
23	Scaling laws for robotic transmissions. <i>Mechanism and Machine Theory</i> , 2019, 140, 601-621.	2.7	18
24	Energetic Advantages of Constant Torque Springs in Series Parallel Elastic Actuators. , 2019, , .		1
25	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> , 2019, 1, 279-296.	2.1	15
26	Model-based control for exoskeletons with series elastic actuators evaluated on sit-to-stand movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 65.	2.4	47
27	A Variable Stiffness Actuator Module With Favorable Mass Distribution for a Bio-inspired Biped Robot. <i>Frontiers in Neurorobotics</i> , 2019, 13, 20.	1.6	16
28	Dynamic Performance of a Squeeze Film Damper with a Cylindrical Roller Bearing under a Large Static Radial Loading Range. <i>Machines</i> , 2019, 7, 14.	1.2	6
29	A Hopping Robot Driven by a Series Elastic Dual-Motor Actuator. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2310-2316.	3.3	20
30	Toward understanding tissue-specific symptoms in dolichol-™phosphate-™mannose synthesis disorders; insight from DPM3-™CDG. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 984-992.	1.7	8
31	Cognitive performance and brain dynamics during walking with a novel bionic foot: A pilot study. <i>PLoS ONE</i> , 2019, 14, e0214711.	1.1	7
32	Studying Design Aspects for Social Robots Using a Generic Gesture Method. <i>International Journal of Social Robotics</i> , 2019, 11, 651-663.	3.1	12
33	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> , 2019, 4, 1823-1830.	3.3	23
34	International clinical guidelines for the management of phosphomannomutase 2-™congenital disorders of glycosylation: Diagnosis, treatment and follow up. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 5-28.	1.7	91
35	P428-™...An interesting case of a girl with a <i>de novo</i> unbalanced translocation causing distinctive metabolic markers. , 2019, , .		0
36	™œHm, Did You Hear What I Just Said?™ Development of a Re-Engagement System for Socially Interactive Robots. <i>Robotics</i> , 2019, 8, 95.	2.1	2

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37	A mutation in mannose-6-phosphate-6-epimerase reveals clinical symptoms of congenital disorders of glycosylation type I and dystroglycanopathy. <i>JIMD Reports</i> , 2019, 50, 31-39.	0.7	14
38	Variable stiffness ankle actuator for use in robotic-assisted walking: Control strategy and experimental characterization. <i>Mechanism and Machine Theory</i> , 2019, 134, 604-624.	2.7	41
39	DualKeepon: a human-robot interaction testbed to study linguistic features of speech. <i>Intelligent Service Robotics</i> , 2019, 12, 45-54.	1.6	6
40	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> , 2019, 11, 334-346.	2.6	20
41	Failure Mode and Effect Analysis (FMEA)-Driven Design of a Planetary Gearbox for Active Wearable Robotics. <i>Biosystems and Biorobotics</i> , 2019, , 460-464.	0.2	5
42	Introducing Compound Planetary Gears (C-PGTs): A Compact Way to Achieve High Gear Ratios for Wearable Robots. <i>Biosystems and Biorobotics</i> , 2019, , 485-489.	0.2	5
43	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> , 2018, 15, 3.	2.4	18
44	The efficacy of the Ankle Mimicking Prosthetic Foot prototype 4.0 during walking. <i>Prosthetics and Orthotics International</i> , 2018, 42, 504-510.	0.5	13
45	Realtime Delayless Estimation of Derivatives of Noisy Sensor Signals for Quasi-Cyclic Motions With Application to Joint Acceleration Estimation on an Exoskeleton. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 1647-1654.	3.3	8
46	EtherCAT Tutorial: An Introduction for Real-Time Hardware Communication on Windows [Tutorial]. <i>IEEE Robotics and Automation Magazine</i> , 2018, 25, 22-122.	2.2	34
47	Energetic analysis and optimization of a MACCEPA actuator in an ankle prosthesis. <i>Autonomous Robots</i> , 2018, 42, 147-158.	3.2	26
48	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 16-21.	3.3	39
49	Generic method for generating blended gestures and affective functional behaviors for social robots. <i>Autonomous Robots</i> , 2018, 42, 569-580.	3.2	10
50	Misalignment Compensation for Full Human-Exoskeleton Kinematic Compatibility: State of the Art and Evaluation. <i>Applied Mechanics Reviews</i> , 2018, 70, .	4.5	73
51	Design and Development of Customized Physical Interfaces to Reduce Relative Motion Between the User and a Powered Ankle Foot Exoskeleton. , 2018, , .		20
52	Driving Robotic Exoskeletons Using Cable-Based Transmissions: A Qualitative Analysis and Overview. <i>Applied Mechanics Reviews</i> , 2018, 70, .	4.5	20
53	The Challenges and Achievements of Experimental Implementation of an Active Transfemoral Prosthesis Based on Biological Quasi-Stiffness: The CYBERLEGS Beta-Prosthesis. <i>Frontiers in Neurobotics</i> , 2018, 12, 80.	1.6	24
54	Powered ankle-foot orthoses: the effects of the assistance on healthy and impaired users while walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 86.	2.4	36

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55	Pathogenic variants in glutamyl-tRNACln amidotransferase subunits cause a lethal mitochondrial cardiomyopathy disorder. <i>Nature Communications</i> , 2018, 9, 4065.	5.8	44
56	On the Electrical Energy Consumption of Active Ankle Prostheses with Series and Parallel Elastic Elements. , 2018, , .		8
57	Online Reconfiguration of a Variable-Stiffness Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 1866-1876.	3.7	12
58	Intact transferrin and total plasma glycoprofiling for diagnosis and therapy monitoring in phosphoglucomutase-I deficiency. <i>Translational Research</i> , 2018, 199, 62-76.	2.2	22
59	Passive Back Support Exoskeleton Improves Range of Motion Using Flexible Beams. <i>Frontiers in Robotics and AI</i> , 2018, 5, 72.	2.0	120
60	Design and evaluation of a torque-controllable knee joint actuator with adjustable series compliance and parallel elasticity. <i>Mechanism and Machine Theory</i> , 2018, 130, 71-85.	2.7	37
61	Desialylation of Platelets by Pneumococcal Neuraminidase A Induces ADP-Dependent Platelet Hyperreactivity. <i>Infection and Immunity</i> , 2018, 86, .	1.0	26
62	Integrating glycomics and genomics uncovers SLC10A7 as essential factor for bone mineralization by regulating post-Golgi protein transport and glycosylation. <i>Human Molecular Genetics</i> , 2018, 27, 3029-3045.	1.4	37
63	A Collaborative Homeostatic-Based Behavior Controller for Social Robots in Human-Robot Interaction Experiments. <i>International Journal of Social Robotics</i> , 2017, 9, 675-690.	3.1	14
64	Design of Smart Modular Variable Stiffness Actuators for Robotic-Assistive Devices. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 1777-1785.	3.7	57
65	Biallelic variants inWARS2encoding mitochondrial tryptophanyl-tRNA synthase in six individuals with mitochondrial encephalopathy. <i>Human Mutation</i> , 2017, 38, 1786-1795.	1.1	24
66	Self-healing soft pneumatic robots. <i>Science Robotics</i> , 2017, 2, .	9.9	359
67	Series and Parallel Elastic Actuation: Influence of Operating Positions on Design and Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 521-529.	3.7	50
68	Discrete binary muscle-inspired actuation with motor unit overpowering and binary control strategy. , 2017, , .		1
69	Multi-Axis Force Sensor for Human-Robot Interaction Sensing in a Rehabilitation Robotic Device. <i>Sensors</i> , 2017, 17, 1294.	2.1	36
70	Bilateral, Misalignment-Compensating, Full-DOF Hip Exoskeleton: Design and Kinematic Validation. <i>Applied Bionics and Biomechanics</i> , 2017, 2017, 1-14.	0.5	31
71	The Variable Boundary Layer Sliding Mode Control: A Safe and Performant Control for Compliant Joint Manipulators. <i>IEEE Robotics and Automation Letters</i> , 2016, , 1-1.	3.3	11
72	The AMP-Foot 3, new generation propulsive prosthetic feet with explosive motion characteristics: design and validation. <i>BioMedical Engineering OnLine</i> , 2016, 15, 145.	1.3	28

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73	Enhancing Emotional Facial Expressiveness on NAO. International Journal of Social Robotics, 2016, 8, 513-521.	3.1	13
74	+SPEA introduction: Drastic actuator energy requirement reduction by symbiosis of parallel motors, springs and locking mechanisms. , 2016, , .		18
75	Defining the Phenotype and Assessing Severity in Phosphoglucomutase-1 Deficiency. Journal of Pediatrics, 2016, 175, 130-136.e8.	0.9	43
76	Energy Consumption of Geared DC Motors in Dynamic Applications: Comparing Modeling Approaches. IEEE Robotics and Automation Letters, 2016, 1, 524-530.	3.3	49
77	Variable Stiffness Actuators: Review on Design and Components. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2418-2430.	3.7	293
78	Temporal and spatial organization of gait-related electrocortical potentials. Neuroscience Letters, 2015, 599, 75-80.	1.0	22
79	CYBERLEGS Beta-Prosthesis active knee system. , 2015, , .		15
80	Real-time physical layer architecture for CORBYS gait rehabilitation robot. , 2015, , .		2
81	A compliant 2-DoF ankle-foot system for a biologically inspired humanoid robot. , 2015, , .		1
82	Psychophysiological response to cognitive workload during symmetrical, asymmetrical and dual-task walking. Human Movement Science, 2015, 40, 248-263.	0.6	43
83	Variable stiffness actuators: The user's point of view. International Journal of Robotics Research, 2015, 34, 727-743.	5.8	160
84	Cylindrical cam mechanism for unlimited subsequent spring recruitment in Series-Parallel Elastic Actuators. , 2015, , .		11
85	Development of a self-healing soft pneumatic actuator: a first concept. Bioinspiration and Biomimetics, 2015, 10, 046007.	1.5	38
86	Ankle-knee prosthesis with active ankle and energy transfer: Development of the CYBERLEGS Alpha-Prosthesis. Robotics and Autonomous Systems, 2015, 73, 4-15.	3.0	64
87	Development of a generic method to generate upper-body emotional expressions for different social robots. Advanced Robotics, 2015, 29, 597-609.	1.1	16
88	Instrumenting complex exoskeletons for improved human-robot interaction. IEEE Instrumentation and Measurement Magazine, 2015, 18, 5-10.	1.2	18
89	Torque control of a push-pull cable driven powered orthosis for the CORBYS platform. , 2015, , .		2
90	Clinical utility gene card for: DPAGT1 defective congenital disorder of glycosylation. European Journal of Human Genetics, 2015, 23, 1-3.	1.4	8

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91	Investigation of self-healing compliant actuators for robotics. , 2015, , .		9
92	Clinical utility gene card for: ALG1 defective congenital disorder of glycosylation. European Journal of Human Genetics, 2015, 23, 1431-1431.	1.4	27
93	Torsion MACCEPA: A novel compact compliant actuator designed around the drive axis. , 2015, , .		15
94	Conceptual design of a novel variable stiffness actuator for use in lower limb exoskeletons. , 2015, , .		17
95	Further Delineation of the ALG9-CDG Phenotype. JIMD Reports, 2015, 27, 107-112.	0.7	17
96	Variable Recruitment of Parallel Elastic Elements: Seriesâ€“Parallel Elastic Actuators (SPEA) With Dephased Mutilated Gears. IEEE/ASME Transactions on Mechatronics, 2015, 20, 594-602.	3.7	89
97	A light-weight active orthosis for hip movement assistance. Robotics and Autonomous Systems, 2015, 73, 123-134.	3.0	210
98	Human-Robot Interaction: Does Robotic Guidance Force Affect Gait-Related Brain Dynamics during Robot-Assisted Treadmill Walking?. PLoS ONE, 2015, 10, e0140626.	1.1	39
99	A Two-Degree of Freedom Variable Stiffness Actuator Based on the MACCEPA Concept. Actuators, 2014, 3, 20-40.	1.2	8
100	Prototype design of a novel modular two-degree-of-freedom variable stiffness actuator. , 2014, , .		2
101	Design of a novel intermittent self-closing mechanism for a MACCEPA-based Series-Parallel Elastic Actuator (SPEA). , 2014, , .		5
102	Clinical and biochemical features guiding the diagnostics in neurometabolic cutis laxa. European Journal of Human Genetics, 2014, 22, 888-895.	1.4	34
103	Clinical utility gene card for: Phosphomannose isomerase deficiency. European Journal of Human Genetics, 2014, 22, 1153-1153.	1.4	10
104	Online Phase Detection Using Wearable Sensors for Walking with a Robotic Prosthesis. Sensors, 2014, 14, 2776-2794.	2.1	107
105	Clinical utility gene card for: Phosphomannomutase 2 deficiency. European Journal of Human Genetics, 2014, 22, 1054-1054.	1.4	2
106	Enhancing My Keepon robot: A simple and low-cost solution for robot platform in Human-Robot Interaction studies. , 2014, , .		11
107	Design of a modular add-on compliant actuator to convert an orthosis into an assistive exoskeleton. , 2014, , .		19
108	The AMP-Foot 2.1 : actuator design, control and experiments with an amputee. Robotica, 2014, 32, 1347-1361.	1.3	28

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109	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.	3.7	81
110	Design and Validation of the Ankle Mimicking Prosthetic (AMP-) Foot 2.0. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 138-148.	2.7	126
111	Search for rare liver diseases: The case of glycosylation defects mimicking Wilson Disease >. Clinics and Research in Hepatology and Gastroenterology, 2014, 38, 403-406.	0.7	15
112	A Motion System for Social and Animated Robots. International Journal of Advanced Robotic Systems, 2014, 11, 72.	1.3	25
113	Case Study on Human Walking during Wearing a Powered Prosthetic Device: Effectiveness of the System “Human-Robot”. Advances in Mechanical Engineering, 2014, 6, 365265.	0.8	10
114	Step Length and Velocity Control of a Dynamic Bipedal Walking Robot With Adaptable Compliant Joints. IEEE/ASME Transactions on Mechatronics, 2013, 18, 598-611.	3.7	50
115	Mutations in GDP-Mannose Pyrophosphorylase B Cause Congenital and Limb-Girdle Muscular Dystrophies Associated with Hypoglycosylation of Î±-Dystroglycan. American Journal of Human Genetics, 2013, 93, 29-41.	2.6	197
116	Series-parallel elastic actuation (SPEA) with intermittent mechanism for reduced motor torque and increased efficiency. , 2013, , .		10
117	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.	0.6	56
118	Passive Ankle-Foot Prosthesis Prototype with Extended Push-Off. International Journal of Advanced Robotic Systems, 2013, 10, 101.	1.3	34
119	Concept of a Series-Parallel Elastic Actuator for a Powered Transtibial Prosthesis. Actuators, 2013, 2, 59-73.	1.2	29
120	Using the social robot probo as a social story telling agent for children with ASD. Interaction Studies, 2012, 13, 348-372.	0.4	152
121	DPM2â€œCDG: A muscular dystrophyâ€œdystroglycanopathy syndrome with severe epilepsy. Annals of Neurology, 2012, 72, 550-558.	2.8	121
122	Thirdâ€œGeneration Pleated Pneumatic Artificial Muscles for Robotic Applications: Development and Comparison with McKibben Muscle. Advanced Robotics, 2012, 26, 1205-1227.	1.1	93
123	The AMP-Foot 2.0: Mimicking intact ankle behavior with a powered transtibial prosthesis. , 2012, , .		33
124	MECHANICAL DESIGN OF THE HUGGABLE ROBOT PROBO. International Journal of Humanoid Robotics, 2011, 08, 481-511.	0.6	43
125	Autosomal Recessive Dilated Cardiomyopathy due to DOLK Mutations Results from Abnormal Dystroglycan O-Mannosylation. PLoS Genetics, 2011, 7, e1002427.	1.5	130
126	The Safety of a Robot Actuated by Pneumatic Musclesâ€œA Case Study. International Journal of Social Robotics, 2010, 2, 289-303.	3.1	33

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127	Expressing Emotions with the Social Robot Probo. International Journal of Social Robotics, 2010, 2, 377-389.	3.1	131
128	A novel cerebello-ocular syndrome with abnormal glycosylation due to abnormalities in dolichol metabolism. Brain, 2010, 133, 3210-3220.	3.7	87
129	SRD5A3 Is Required for Converting Polyprenol to Dolichol and Is Mutated in a Congenital Glycosylation Disorder. Cell, 2010, 142, 203-217.	13.5	253
130	A Study on the Bandwidth Characteristics of Pleated Pneumatic Artificial Muscles. Applied Bionics and Biomechanics, 2009, 6, 3-9.	0.5	3
131	Design and Control of a Lower Limb Exoskeleton for Robot-Assisted Gait Training. Applied Bionics and Biomechanics, 2009, 6, 229-243.	0.5	43
132	Compliant actuator designs. IEEE Robotics and Automation Magazine, 2009, 16, 81-94.	2.2	672
133	Deficiency of Dol-P-Man Synthase Subunit DPM3 Bridges the Congenital Disorders of Glycosylation with the Dystroglycanopathies. American Journal of Human Genetics, 2009, 85, 76-86.	2.6	178
134	Powered ankle-foot system that mimics intact human ankle behavior: Proposal of a new concept. , 2009, , .		4
135	Use of Compliant Actuators in Robotic Applications. , 2009, , .		2
136	Development of a compliance controller to reduce energy consumption for bipedal robots. Autonomous Robots, 2008, 24, 419-434.	3.2	66
137	Overview of the Lucy Project: Dynamic Stabilization of a Biped Powered by Pneumatic Artificial Muscles. Advanced Robotics, 2008, 22, 1027-1051.	1.1	72
138	From conventional prosthetic feet to bionic feet: A review study. , 2008, , .		8
139	Design of a powered elbow orthosis for orthopaedic rehabilitation using compliant actuation. , 2008, , .		12
140	A pneumatically powered below-knee prosthesis: Design specifications and first experiments with an amputee. , 2008, , .		34
141	Mechanical Design of an Active Knee Orthosis for Gait Rehabilitation. , 2007, , .		12
142	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.	3.0	334
143	Controlling a bipedal walking robot actuated by pleated pneumatic artificial muscles. Robotica, 2006, 24, 401-410.	1.3	46
144	Second generation pleated pneumatic artificial muscle and its robotic applications. Advanced Robotics, 2006, 20, 783-805.	1.1	79

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145	Locomotion Control Architecture for the Pneumatic Biped Lucy consisting of a Trajectory Generator and Joint Trajectory Tracking Controller. , 2006, , .		1
146	MOTION GENERATION AND CONTROL FOR THE PNEUMATIC BIPED "LUCY". International Journal of Humanoid Robotics, 2006, 03, 67-103.	0.6	13
147	Exploiting adaptable passive behaviour to influence natural dynamics applied to legged robots. Robotica, 2005, 23, 149-158.	1.3	20
148	The Pneumatic Biped ?Lucy? Actuated with Pleated Pneumatic Artificial Muscles. Autonomous Robots, 2005, 18, 201-213.	3.2	153
149	Fast and Accurate Pressure Control using On-Off Valves. International Journal of Fluid Power, 2005, 6, 53-58.	0.7	11
150	Title is missing!. Multibody System Dynamics, 2003, 10, 45-59.	1.7	28
151	Null Space Integration Method for Constrained Multibody Systems with No Constraint Violation. Multibody System Dynamics, 2001, 6, 229-243.	1.7	26
152	The Concept and Design of Pleated Pneumatic Artificial Muscles. International Journal of Fluid Power, 2001, 2, 41-50.	0.7	177