

Axel S Koopman

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

683
citations

1040056

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1281871

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all docs

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docs citations

12
times ranked

439
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a passive exoskeleton on the mechanical loading of the low back in static holding tasks. <i>Journal of Biomechanics</i> , 2019, 83, 97-103.	2.1	135
2	Passive Back Support Exoskeleton Improves Range of Motion Using Flexible Beams. <i>Frontiers in Robotics and AI</i> , 2018, 5, 72.	3.2	120
3	Rationale, Implementation and Evaluation of Assistive Strategies for an Active Back-Support Exoskeleton. <i>Frontiers in Robotics and AI</i> , 2018, 5, 53.	3.2	106
4	SPEXOR passive spinal exoskeleton decreases metabolic cost during symmetric repetitive lifting. <i>European Journal of Applied Physiology</i> , 2020, 120, 401-412.	2.5	72
5	Biomechanical evaluation of a new passive back support exoskeleton. <i>Journal of Biomechanics</i> , 2020, 105, 109795.	2.1	71
6	The effect of control strategies for an active back-support exoskeleton on spine loading and kinematics during lifting. <i>Journal of Biomechanics</i> , 2019, 91, 14-22.	2.1	65
7	Effects of a passive back exoskeleton on the mechanical loading of the low-back during symmetric lifting. <i>Journal of Biomechanics</i> , 2020, 102, 109486.	2.1	60
8	Continuous ambulatory hand force monitoring during manual materials handling using instrumented force shoes and an inertial motion capture suit. <i>Journal of Biomechanics</i> , 2018, 70, 235-241.	2.1	25
9	Estimating the L5/S1 flexion/extension moment in symmetrical lifting using a simplified ambulatory measurement system. <i>Journal of Biomechanics</i> , 2018, 70, 242-248.	2.1	22
10	Selecting the appropriate input variables in a regression approach to estimate actively generated muscle moments around L5/S1 for exoskeleton control. <i>Journal of Biomechanics</i> , 2020, 102, 109650.	2.1	6
11	Trunk Range of Motion in the Sagittal Plane with and Without a Flexible Back Support Exoskeleton. <i>Biosystems and Biorobotics</i> , 2019, , 239-243.	0.3	1
12	Biomechanical Evaluation of the Effect of Three Trunk Support Exoskeletons on Spine Loading During Lifting. <i>Biosystems and Biorobotics</i> , 2022, , 177-181.	0.3	0