

# Akira Komatsu

## List of Publications by Year in descending order

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15  
papers

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citations

2258059

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2053705

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docs citations

15  
times ranked

9  
citing authors

#	ARTICLE	IF	CITATIONS
1	Association between global sagittal malalignment and increasing hip joint contact force, analyzed by a novel musculoskeletal modeling system. PLoS ONE, 2021, 16, e0259049.	2.5	9
2	Construction and validation of a three-dimensional trunk musculoskeletal model by using data from Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). Transactions of the JSME (in Japanese), 2019, 85, 19-00323-19-00323.	0.1	0
3	Construction and validation under dynamic conditions of a novel thoracolumbar spine model with defined muscle paths using the wrapping method. Journal of Biomechanical Science and Engineering, 2019, 14, 18-00432-18-00432.	0.3	4
4	Comparison of MARG Sensor Results for Different Mounting Positions and Physiques for Accurate Knee Joint Motion Measurement. , 2019, , .		3
5	Calculation of Intervertebral Disc Pressure in the Thoracic and Lumbar Spine in Elderly Women with Kyphosis Using a Novel Musculoskeletal Model with Isolated Thoracic Vertebrae and Rib Cage. Open Journal of Orthopedics, 2019, 09, 241-253.	0.1	3
6	Validation of the hip contact force for a novel lower extremity musculoskeletal model. , 2019, , .		2
7	Estimation of the hip joint contact force using 3-dimensional model analysis and stress analysis of acetabular dysplasia around shelf acetabuloplasty. Transactions of the JSME (in Japanese), 2017, 83, 16-00559-16-00559.	0.2	1
8	A study on sensor position for thigh and lower leg motion sensors during walking (Focusing on the) Transactions of the JSME (in Japanese), 2017, 83, 16-00559-16-00559.	0.2	1
9	Estimation of electrical stimulation pattern in FES cycling using neural network. The Proceedings of the Symposium on Sports and Human Dynamics, 2017, 2017, B-27.	0.0	0
10	Evaluation of crank position in Functional Electrical Stimulation cycle using three-dimensional musculoskeletal model. The Proceedings of the Symposium on Sports and Human Dynamics, 2017, 2017, D-16.	0.0	0
11	Comparison of lower limb joint moment and EMG value by riding posture of various bicycles. The Proceedings of the Symposium on Sports and Human Dynamics, 2017, 2017, D-23.	0.0	0
12	Effectiveness of Dynamical Thoracic Spine Model using Wrapping. Journal of the Society of Biomechanisms, 2018, 42, 125-128.	0.0	0
13	Construction and Validation of A Muscle Path in Lower Extremity Using Three-Dimensional Musculoskeletal Model. The Proceedings of Mechanical Engineering Congress Japan, 2019, 2019, J02516P.	0.0	0
14	Stress analysis of shelf acetabuloplasty for acetabular dysplasia patients using dynamical load during walking. , 2019, , .		0
15	Wheelchair cycle crankshaft center height effects on lower limb joint moments for cycling under low workload. Transactions of the JSME (in Japanese), 2020, 86, 19-00323-19-00323.	0.2	0