

# Jasper Homminga

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

549  
citations

840776

11  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity of muscle and intervertebral disc force computations to variations in muscle attachment sites. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1135-1143.	1.6	7
2	Twente Spine Model: A thorough investigation of the spinal loads in a complete and coherent musculoskeletal model of the human spine. <i>Medical Engineering and Physics</i> , 2019, 68, 35-45.	1.7	33
3	Inducing targeted failure in cadaveric testing of 3-segment spinal units with and without simulated metastases. <i>Medical Engineering and Physics</i> , 2018, 51, 104-110.	1.7	4
4	In situ comparison of A-mode ultrasound tracking system and skin-mounted markers for measuring kinematics of the lower extremity. <i>Journal of Biomechanics</i> , 2018, 72, 134-143.	2.1	3
5	Feasibility of A-mode ultrasound based intraoperative registration in computer-aided orthopedic surgery: A simulation and experimental study. <i>PLoS ONE</i> , 2018, 13, e0199136.	2.5	9
6	A Novel Ultrasound-Based Lower Extremity Motion Tracking System. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 131-142.	1.6	2
7	Measuring relative positions and orientations of the tibia with respect to the femur using one-channel 3D-tracked A-mode ultrasound tracking system: A cadaveric study. <i>Medical Engineering and Physics</i> , 2018, 57, 61-68.	1.7	2
8	Twente spine model: A complete and coherent dataset for musculo-skeletal modeling of the lumbar region of the human spine. <i>Journal of Biomechanics</i> , 2017, 53, 111-119.	2.1	12
9	Twente spine model: A complete and coherent dataset for musculo-skeletal modeling of the thoracic and cervical regions of the human spine. <i>Journal of Biomechanics</i> , 2017, 58, 52-63.	2.1	19
10	Prophylactic vertebroplasty can decrease the fracture risk of adjacent vertebrae: An in vitro cadaveric study. <i>Medical Engineering and Physics</i> , 2014, 36, 944-948.	1.7	23
11	Does Bone Cement In Percutaneous Vertebroplasty Act as a Stress Riser?. <i>Spine</i> , 2013, 38, 2092-2097.	2.0	19
12	Posteriorly Directed Shear Loads and Disc Degeneration Affect the Torsional Stiffness of Spinal Motion Segments. <i>Spine</i> , 2013, 38, E1313-E1319.	2.0	17
13	Can vertebral density changes be explained by intervertebral disc degeneration?. <i>Medical Engineering and Physics</i> , 2012, 34, 453-458.	1.7	41
14	Influence of Interpersonal Geometrical Variation on Spinal Motion Segment Stiffness. <i>Spine</i> , 2011, 36, E929-E935.	2.0	47
15	The Fracture Risk of Adjacent Vertebrae Is Increased by the Changed Loading Direction After a Wedge Fracture. <i>Spine</i> , 2011, 36, E408-E412.	2.0	24
16	The dependence of the elastic properties of osteoporotic cancellous bone on volume fraction and fabric. <i>Journal of Biomechanics</i> , 2003, 36, 1461-1467.	2.1	86
17	Osteoporosis Changes the Amount of Vertebral Trabecular Bone at Risk of Fracture but Not the Vertebral Load Distribution. <i>Spine</i> , 2001, 26, 1555-1560.	2.0	124
18	Introduction and evaluation of a gray-value voxel conversion technique. <i>Journal of Biomechanics</i> , 2001, 34, 513-517.	2.1	77