

# Gabriele Armbrecht

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,477  
citations

218677

26  
h-index

197818

49  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Use of Quantitative Computed Tomography and Peripheral Quantitative Computed Tomography in the Management of Osteoporosis in Adults: The 2007 ISCD Official Positions. <i>Journal of Clinical Densitometry</i> , 2008, 11, 123-162.	1.2	430
2	Prevention of bone loss during 56 days of strict bed rest by side-alternating resistive vibration exercise. <i>Bone</i> , 2010, 46, 137-147.	2.9	128
3	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. <i>Medical Image Analysis</i> , 2018, 45, 41-54.	11.6	110
4	Muscle Atrophy and Changes in Spinal Morphology. <i>Spine</i> , 2011, 36, 137-145.	2.0	104
5	Collagen Type III and VI Turnover in Response to Long-Term Immobilization. <i>PLoS ONE</i> , 2015, 10, e0144525.	2.5	91
6	Resistive vibration exercise attenuates bone and muscle atrophy in 56 days of bed rest: biochemical markers of bone metabolism. <i>Osteoporosis International</i> , 2010, 21, 597-607.	3.1	90
7	Evidence for an additional effect of whole-body vibration above resistive exercise alone in preventing bone loss during prolonged bed rest. <i>Osteoporosis International</i> , 2011, 22, 1581-1591.	3.1	89
8	Differential atrophy of the lower-limb musculature during prolonged bed-rest. <i>European Journal of Applied Physiology</i> , 2009, 107, 489-499.	2.5	86
9	Fully Automatic Localization and Segmentation of 3D Vertebral Bodies from CT/MR Images via a Learning-Based Method. <i>PLoS ONE</i> , 2015, 10, e0143327.	2.5	86
10	Countermeasures against lumbar spine deconditioning in prolonged bed rest: resistive exercise with and without whole body vibration. <i>Journal of Applied Physiology</i> , 2010, 109, 1801-1811.	2.5	81
11	How to prevent the detrimental effects of two months of bed-rest on muscle, bone and cardiovascular system: an RCT. <i>Scientific Reports</i> , 2017, 7, 13177.	3.3	80
12	Trabecular and cortical bone density and architecture in women after 60 days of bed rest using high-resolution pQCT: WISE 2005. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2399-2410.	2.8	77
13	Heterogeneous atrophy occurs within individual lower limb muscles during 60 days of bed rest. <i>Journal of Applied Physiology</i> , 2012, 113, 1545-1559.	2.5	65
14	The effects of rehabilitation on the muscles of the trunk following prolonged bed rest. <i>European Spine Journal</i> , 2011, 20, 808-818.	2.2	61
15	Highly Demanding Resistive Vibration Exercise Program is Tolerated During 56 Days of Strict Bed-Rest. <i>International Journal of Sports Medicine</i> , 2006, 27, 553-559.	1.7	59
16	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. <i>Medical Image Analysis</i> , 2017, 35, 327-344.	11.6	59
17	Localization and Segmentation of 3D Intervertebral Discs in MR Images by Data Driven Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1719-1729.	8.9	57
18	Age-related collagen turnover of the interstitial matrix and basement membrane: Implications of age- and sex-dependent remodeling of the extracellular matrix. <i>PLoS ONE</i> , 2018, 13, e0194458.	2.5	55

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19	WISE-2005: Bed-rest induced changes in bone mineral density in women during 60 days simulated microgravity. <i>Bone</i> , 2011, 49, 858-866.	2.9	50
20	Effects of 60-day bed rest with and without exercise on cellular and humoral immunological parameters. <i>Cellular and Molecular Immunology</i> , 2015, 12, 483-492.	10.5	42
21	In Vivo Measurements of Cortical Thickness and Porosity at the Proximal Third of the Tibia Using Guided Waves: Comparison with Site-Matched Peripheral Quantitative Computed Tomography and Distal High-Resolution Peripheral Quantitative Computed Tomography. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1234-1242.	1.5	39
22	Differential atrophy of the postero-lateral hip musculature during prolonged bedrest and the influence of exercise countermeasures. <i>Journal of Applied Physiology</i> , 2011, 110, 926-934.	2.5	38
23	Serum sclerostin and DKK1 in relation to exercise against bone loss in experimental bed rest. <i>Journal of Bone and Mineral Metabolism</i> , 2016, 34, 354-365.	2.7	38
24	Resistive exercises, with or without whole body vibration, prevent vertebral marrow fat accumulation during 60 days of head-down tilt bed rest in men. <i>Journal of Applied Physiology</i> , 2012, 112, 1824-1831.	2.5	36
25	Influence of vibration resistance training on knee extensor and plantar flexor size, strength, and contractile speed characteristics after 60 days of bed rest. <i>Journal of Applied Physiology</i> , 2009, 107, 1789-1798.	2.5	35
26	Muscle Atrophy, Pain, and Damage in Bed Rest Reduced by Resistive (Vibration) Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 1506-1516.	0.4	35
27	Hypertrophy in the cervical muscles and thoracic discs in bed rest?. <i>Journal of Applied Physiology</i> , 2013, 115, 586-596.	2.5	25
28	Preferential deposition of visceral adipose tissue occurs due to physical inactivity. <i>International Journal of Obesity</i> , 2014, 38, 1478-1480.	3.4	25
29	Plyometrics Can Preserve Peak Power During 2 Months of Physical Inactivity: An RCT Including a One-Year Follow-Up. <i>Frontiers in Physiology</i> , 2018, 9, 633.	2.8	25
30	Incomplete Recovery of Lumbar Intervertebral Discs 2 Years After 60-Day Bed Rest. <i>Spine</i> , 2012, 37, 1245-1251.	2.0	24
31	Real-time ultrasound measures of lumbar erector spinae and multifidus: reliability and comparison to magnetic resonance imaging. <i>Physiological Measurement</i> , 2015, 36, 2285-2299.	2.1	23
32	Impact of oral ibandronate 150mg once monthly on bone structure and density in post-menopausal osteoporosis or osteopenia derived from in vivo $^{14}\text{C}$ . <i>Bone</i> , 2012, 50, 317-324.	2.9	22
33	Measurement of a MMP-2 degraded Titin fragment in serum reflects changes in muscle turnover induced by atrophy. <i>Experimental Gerontology</i> , 2014, 58, 83-89.	2.8	21
34	Bone density and neuromuscular function in older competitive athletes depend on running distance. <i>Osteoporosis International</i> , 2013, 24, 2033-2042.	3.1	18
35	Influence of prolonged bed-rest on spectral and temporal electromyographic motor control characteristics of the superficial lumbo-pelvic musculature. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 170-179.	1.7	15
36	Resistive vibration exercise during bed-rest reduces motor control changes in the lumbo-pelvic musculature. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 21-30.	1.7	15

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37	High Intensity Jump Exercise Preserves Posture Control, Gait, and Functional Mobility During 60 Days of Bed-Rest: An RCT Including 90 Days of Follow-Up. <i>Frontiers in Physiology</i> , 2018, 9, 1713.	2.8	14
38	Whey protein supplementation with vibration exercise ameliorates lumbar paraspinal muscle atrophy in prolonged bed rest. <i>Journal of Applied Physiology</i> , 2020, 128, 1568-1578.	2.5	13
39	Effects of single-agent bortezomib as post-transplant consolidation therapy on multiple myeloma-related bone disease: a randomized phase II study. <i>British Journal of Haematology</i> , 2017, 178, 61-71.	2.5	12
40	Degenerative inter-vertebral disc disease osteochondrosis intervertebralis in Europe: prevalence, geographic variation and radiological correlates in men and women aged 50 and over. <i>Rheumatology</i> , 2017, 56, 1189-1199.	1.9	11
41	Pore Size Distribution and Frequency-Dependent Attenuation in Human Cortical Tibia Bone Discriminate Fragility Fractures in Postmenopausal Women With Low Bone Mineral Density. <i>JBMR Plus</i> , 2021, 5, e10536.	2.7	11
42	Balance Performance across the Lifespan Assessed by the Leonardo Mechanograph <sup>®</sup> : A Cross-Sectional Study. <i>Journal of Functional Morphology and Kinesiology</i> , 2020, 5, 1.	2.4	10
43	Vertebral Fracture Diagnosis in the Multinational BONE Study of Oral Ibandronate: Quality Management in Radiology. <i>Journal of Clinical Densitometry</i> , 2008, 11, 221-231.	1.2	8
44	Greater association of peak neuromuscular performance with cortical bone geometry, bone mass and bone strength than bone density: A study in 417 older women. <i>Bone</i> , 2016, 83, 119-126.	2.9	8
45	Effects of 8 weeks of bed rest with or without resistance exercise intervention on the volume of the muscle tissue and the adipose tissues of the thigh. <i>Physiological Reports</i> , 2020, 8, e14560.	1.7	8
46	Prediction of Vertebral Fractures Is Specific for Gender and Site of Bone Mineral Density Measurement. <i>Journal of Rheumatology</i> , 2010, 37, 149-154.	2.0	6
47	Evaluation of lumbar disc and spine morphology: long-term repeatability and comparison of methods. <i>Physiological Measurement</i> , 2012, 33, 1313-1321.	2.1	5
48	Testing the deconditioning hypothesis of low back pain: A study in 1182 older women. <i>European Journal of Sport Science</i> , 2020, 20, 17-23.	2.7	5
49	The effects of bed-rest and countermeasure exercise on the endocrine system in male adults: evidence for immobilization-induced reduction in sex hormone-binding globulin levels. <i>Journal of Endocrinological Investigation</i> , 2012, 35, 54-62.	3.3	5
50	Evaluation of neck muscle size: long-term reliability and comparison of methods. <i>Physiological Measurement</i> , 2015, 36, 503-512.	2.1	4
51	Quantitative assessment of the lumbar intervertebral disc via T2 shows excellent long-term reliability. <i>PLoS ONE</i> , 2021, 16, e0249855.	2.5	2
52	Longitudinal changes in muscle power compared to muscle strength and mass. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2021, 21, 13-25.	0.1	2
53	OPO285...PARE SARCOPENIA IN PATIENTS WITH RHEUMATIC DISEASES. , 2019, , .		1
54	Balance and prospective falls in patients with rheumatoid arthritis. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	1.9	1