Gabriele Armbrecht

List of Publications by Year
in descending order

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54	2,477	218677	197818
papers	citations	26 h-index	49 g-index

55	55	55	3112
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Balance and prospective falls in patients with rheumatoid arthritis. BMC Musculoskeletal Disorders, 2022, 23, .	1.9	1
2	Quantitative assessment of the lumbar intervertebral disc via T2 shows excellent long-term reliability. PLoS ONE, 2021, 16, e0249855.	2.5	2
3	Poreâ€Size Distribution and Frequencyâ€Dependent Attenuation in Human Cortical Tibia Bone Discriminate Fragility Fractures in Postmenopausal Women With Low Bone Mineral Density. JBMR Plus, 2021, 5, e10536.	2.7	11
4	Longitudinal changes in muscle power compared to muscle strength and mass. Journal of Musculoskeletal Neuronal Interactions, 2021, 21, 13-25.	0.1	2
5	Testing the deconditioning hypothesis of low back pain: A study in 1182 older women. European Journal of Sport Science, 2020, 20, 17-23.	2.7	5
6	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. Physiological Reports, 2020, 8, e14560.	1.7	8
7	Balance Performance across the Lifespan Assessed by the Leonardo MechanographÂ®: A Cross-Sectional Study. Journal of Functional Morphology and Kinesiology, 2020, 5, 1.	2.4	10
8	Whey protein supplementation with vibration exercise ameliorates lumbar paraspinal muscle atrophy in prolonged bed rest. Journal of Applied Physiology, 2020, 128, 1568-1578.	2.5	13
9	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. Ultrasound in Medicine and Biology, 2019, 45, 1234-1242.	1.5	39
10	OP0285â€…PARE SARCOPENIA IN PATIENTS WITH RHEUMATIC DISEASES. , 2019, , .		1
11	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. Medical Image Analysis, 2018, 45, 41-54.	11.6	110
12	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. Frontiers in Physiology, 2018, 9, 1713.	2.8	14
13	Plyometrics Can Preserve Peak Power During 2 Months of Physical Inactivity: An RCT Including a One-Year Follow-Up. Frontiers in Physiology, 2018, 9, 633.	2.8	25
14	Age-related collagen turnover of the interstitial matrix and basement membrane: Implications of age- and sex-dependent remodeling of the extracellular matrix. PLoS ONE, 2018, 13, e0194458.	2.5	55
15	Effects of singleâ€agent bortezomib as postâ€transplant consolidation therapy on multiple myelomaâ€related bone disease: a randomized phase <scp>II</scp> study. British Journal of Haematology, 2017, 178, 61-71.	2.5	12
16	How to prevent the detrimental effects of two months of bed-rest on muscle, bone and cardiovascular system: an RCT. Scientific Reports, 2017, 7, 13177.	3.3	80
17	Degenerative inter-vertebral disc disease osteochondrosis intervertebralis in Europe: prevalence, geographic variation and radiological correlates in men and women aged 50 and over. Rheumatology, 2017, 56, 1189-1199.	1.9	11
18	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. Medical Image Analysis, 2017, 35, 327-344.	11.6	59

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19	Greater association of peak neuromuscular performance with cortical bone geometry, bone mass and bone strength than bone density: A study in 417 older women. Bone, 2016, 83, 119-126.	2.9	8
20	Serum sclerostin and DKK1 in relation to exercise against bone loss in experimental bed rest. Journal of Bone and Mineral Metabolism, 2016, 34, 354-365.	2.7	38
21	Fully Automatic Localization and Segmentation of 3D Vertebral Bodies from CT/MR Images via a Learning-Based Method. PLoS ONE, 2015, 10, e0143327.	2.5	86
22	Collagen Type III and VI Turnover in Response to Long-Term Immobilization. PLoS ONE, 2015, 10, e0144525.	2.5	91
23	Evaluation of neck muscle size: long-term reliability and comparison of methods. Physiological Measurement, 2015, 36, 503-512.	2.1	4
24	Real-time ultrasound measures of lumbar erector spinae and multifidus: reliability and comparison to magnetic resonance imaging. Physiological Measurement, 2015, 36, 2285-2299.	2.1	23
25	Localization and Segmentation of 3D Intervertebral Discs in MR Images by Data Driven Estimation. IEEE Transactions on Medical Imaging, 2015, 34, 1719-1729.	8.9	57
26	Effects of 60-day bed rest with and without exercise on cellular and humoral immunological parameters. Cellular and Molecular Immunology, 2015, 12, 483-492.	10.5	42
27	Muscle Atrophy, Pain, and Damage in Bed Rest Reduced by Resistive (Vibration) Exercise. Medicine and Science in Sports and Exercise, 2014, 46, 1506-1516.	0.4	35
28	Preferential deposition of visceral adipose tissue occurs due to physical inactivity. International Journal of Obesity, 2014, 38, 1478-1480.	3.4	25
29	Measurement of a MMP-2 degraded Titin fragment in serum reflects changes in muscle turnover induced by atrophy. Experimental Gerontology, 2014, 58, 83-89.	2.8	21
30	Bone density and neuromuscular function in older competitive athletes depend on running distance. Osteoporosis International, 2013, 24, 2033-2042.	3.1	18
31	Hypertrophy in the cervical muscles and thoracic discs in bed rest?. Journal of Applied Physiology, 2013, 115, 586-596.	2.5	25
32	Evaluation of lumbar disc and spine morphology: long-term repeatability and comparison of methods. Physiological Measurement, 2012, 33, 1313-1321.	2.1	5
33	Heterogeneous atrophy occurs within individual lower limb muscles during 60 days of bed rest. Journal of Applied Physiology, 2012, 113, 1545-1559.	2.5	65
34	Resistive exercises, with or without whole body vibration, prevent vertebral marrow fat accumulation during 60 days of head-down tilt bed rest in men. Journal of Applied Physiology, 2012, 112, 1824-1831.	2.5	36
35	Incomplete Recovery of Lumbar Intervertebral Discs 2 Years After 60-Day Bed Rest. Spine, 2012, 37, 1245-1251.	2.0	24
36	Resistive vibration exercise during bed-rest reduces motor control changes in the lumbo-pelvic musculature. Journal of Electromyography and Kinesiology, 2012, 22, 21-30.	1.7	15

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37	Impact of oral ibandronate 150mg once monthly on bone structure and density in post-menopausal osteoporosis or osteopenia derived from in vivo Î¼CT. Bone, 2012, 50, 317-324.	2.9	22
38	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. Journal of Endocrinological Investigation, 2012, 35, 54-62.	3.3	5
39	WISE-2005: Bed-rest induced changes in bone mineral density in women during 60 days simulated microgravity. Bone, 2011, 49, 858-866.	2.9	50
40	Muscle Atrophy and Changes in Spinal Morphology. Spine, 2011, 36, 137-145.	2.0	104
41	Differential atrophy of the postero-lateral hip musculature during prolonged bedrest and the influence of exercise countermeasures. Journal of Applied Physiology, 2011, 110, 926-934.	2.5	38
42	The effects of rehabilitation on the muscles of the trunk following prolonged bed rest. European Spine Journal, 2011, 20, 808-818.	2.2	61
43	Evidence for an additional effect of whole-body vibration above resistive exercise alone in preventing bone loss during prolonged bed rest. Osteoporosis International, 2011, 22, 1581-1591.	3.1	89
44	Trabecular and cortical bone density and architecture in women after 60 days of bed rest using high-resolution pQCT: WISE 2005. Journal of Bone and Mineral Research, 2011, 26, 2399-2410.	2.8	77
45	Resistive vibration exercise attenuates bone and muscle atrophy in 56Âdays of bed rest: biochemical markers of bone metabolism. Osteoporosis International, 2010, 21, 597-607.	3.1	90
46	Prediction of Vertebral Fractures Is Specific for Gender and Site of Bone Mineral Density Measurement. Journal of Rheumatology, 2010, 37, 149-154.	2.0	6
47	Countermeasures against lumbar spine deconditioning in prolonged bed rest: resistive exercise with and without whole body vibration. Journal of Applied Physiology, 2010, 109, 1801-1811.	2.5	81
48	Influence of prolonged bed-rest on spectral and temporal electromyographic motor control characteristics of the superficial lumbo-pelvic musculature. Journal of Electromyography and Kinesiology, 2010, 20, 170-179.	1.7	15
49	Prevention of bone loss during 56 days of strict bed rest by side-alternating resistive vibration exercise. Bone, 2010, 46, 137-147.	2.9	128
50	Influence of vibration resistance training on knee extensor and plantar flexor size, strength, and contractile speed characteristics after 60 days of bed rest. Journal of Applied Physiology, 2009, 107, 1789-1798.	2.5	35
51	Differential atrophy of the lower-limb musculature during prolonged bed-rest. European Journal of Applied Physiology, 2009, 107, 489-499.	2.5	86
52	Vertebral Fracture Diagnosis in the Multinational BONE Study of Oral Ibandronate: Quality Management in Radiology. Journal of Clinical Densitometry, 2008, 11, 221-231.	1.2	8
53	Clinical Use of Quantitative Computed Tomography and Peripheral Quantitative Computed Tomography in the Management of Osteoporosis in Adults: The 2007 ISCD Official Positions. Journal of Clinical Densitometry, 2008, 11, 123-162.	1.2	430
54	Highly Demanding Resistive Vibration Exercise Program is Tolerated During 56 Days of Strict Bed-Rest. International Journal of Sports Medicine, 2006, 27, 553-559.	1.7	59