

Simon Brumagne Pt

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,532
citations

218677

26
h-index

233421

45
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50
all docs

50
docs citations

50
times ranked

2027
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Paraspinal Muscle Spindles in Lumbosacral Position Sense in Individuals With and Without Low Back Pain. <i>Spine</i> , 2000, 25, 989-994.	2.0	392
2	Proprioceptive weighting changes in persons with low back pain and elderly persons during upright standing. <i>Neuroscience Letters</i> , 2004, 366, 63-66.	2.1	239
3	Persons with recurrent low back pain exhibit a rigid postural control strategy. <i>European Spine Journal</i> , 2008, 17, 1177-1184.	2.2	229
4	Altered postural control in anticipation of postural instability in persons with recurrent low back pain. <i>Gait and Posture</i> , 2008, 28, 657-662.	1.4	151
5	Decreased variability in postural control strategies in young people with non-specific low back pain is associated with altered proprioceptive reweighting. <i>European Journal of Applied Physiology</i> , 2011, 111, 115-123.	2.5	143
6	Effect of Paraspinal Muscle Vibration on Position Sense of the Lumbosacral Spine. <i>Spine</i> , 1999, 24, 1328.	2.0	93
7	The effect of acute back muscle fatigue on postural control strategy in people with and without recurrent low back pain. <i>European Spine Journal</i> , 2011, 20, 2152-2159.	2.2	87
8	Proprioceptive Changes Impair Balance Control in Individuals with Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2013, 8, e57949.	2.5	84
9	The Effect of Inspiratory Muscles Fatigue on Postural Control in People With and Without Recurrent Low Back Pain. <i>Spine</i> , 2010, 35, 1088-1094.	2.0	75
10	Inspiratory Muscle Training Affects Proprioceptive Use and Low Back Pain. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 12-19.	0.4	63
11	The assessment of inspiratory muscle fatigue in healthy individuals: A systematic review. <i>Respiratory Medicine</i> , 2013, 107, 331-346.	2.9	60
12	Ankle proprioception is not targeted by exercises on an unstable surface. <i>European Journal of Applied Physiology</i> , 2012, 112, 1577-1585.	2.5	58
13	Neuroplasticity of Sensorimotor Control in Low Back Pain. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 402-414.	3.5	58
14	Resting-State Functional Connectivity of the Sensorimotor Network in Individuals with Nonspecific Low Back Pain and the Association with the Sit-to-Stand-to-Sit Task. <i>Brain Connectivity</i> , 2015, 5, 303-311.	1.7	49
15	Greater diaphragm fatigability in individuals with recurrent low back pain. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 119-123.	1.6	48
16	Young individuals with a more ankle-steered proprioceptive control strategy may develop mild non-specific low back pain. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 329-338.	1.7	46
17	Impaired Postural Control Reduces Sit-to-Stand-to-Sit Performance in Individuals with Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2014, 9, e88247.	2.5	45
18	Altered interpretation of neck proprioceptive signals in persons with subclinical recurrent neck pain. <i>Journal of Rehabilitation Medicine</i> , 2008, 40, 426-432.	1.1	44

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19	Postural sway and integration of proprioceptive signals in subjects with LBP. <i>Human Movement Science</i> , 2015, 39, 109-120.	1.4	43
20	Lumbosacral Position Sense During Pelvic Tilting in Men and Women Without Low Back Pain: Test Development and Reliability Assessment. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1999, 29, 345-351.	3.5	37
21	Lumbosacral repositioning accuracy in standing posture: a combined electrogoniometric and videographic evaluation. <i>Clinical Biomechanics</i> , 1999, 14, 361-363.	1.2	33
22	Altered preparatory pelvic control during the sit-to-stance-to-sit movement in people with non-specific low back pain. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 821-828.	1.7	33
23	Association Between Sensorimotor Impairments and Functional Brain Changes in Patients With Low Back Pain. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, 200-211.	1.4	33
24	Exercise programs for older men: mode and intensity to induce the highest possible health-related benefits. <i>Preventive Medicine</i> , 2004, 39, 823-833.	3.4	32
25	The presence of respiratory disorders in individuals with low back pain: A systematic review. <i>Manual Therapy</i> , 2016, 26, 77-86.	1.6	32
26	Microstructural Integrity of the Superior Cerebellar Peduncle Is Associated with an Impaired Proprioceptive Weighting Capacity in Individuals with Non-Specific Low Back Pain. <i>PLoS ONE</i> , 2014, 9, e100666.	2.5	32
27	Sensor-based postural feedback is more effective than conventional feedback to improve lumbopelvic movement control in patients with chronic low back pain: a randomised controlled trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 85.	4.6	27
28	Sagittal evaluation of usual standing and sitting spinal posture. <i>Journal of Bodywork and Movement Therapies</i> , 2016, 20, 326-333.	1.2	21
29	The development of the Dutch version of the Fremantle Back Awareness Questionnaire. <i>Musculoskeletal Science and Practice</i> , 2017, 32, 84-91.	1.3	21
30	Differences in brain processing of proprioception related to postural control in patients with recurrent non-specific low back pain and healthy controls. <i>NeuroImage: Clinical</i> , 2019, 23, 101881.	2.7	21
31	Integrated clinical approach to motor control interventions in low back and pelvic pain. , 2013, , 243-309.		20
32	The Effectiveness of Technology-Supported Exercise Therapy for Low Back Pain. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2017, 96, 347-356.	1.4	20
33	Test-Retest Reliability and Concurrent Validity of an fMRI-Compatible Pneumatic Vibrator to Stimulate Muscle Proprioceptors. <i>Multisensory Research</i> , 2016, 29, 465-492.	1.1	17
34	Postural Strategy and Back Muscle Oxygenation during Inspiratory Muscle Loading. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1355-1362.	0.4	15
35	Test-retest reliability of muscle vibration effects on postural sway. <i>Gait and Posture</i> , 2014, 40, 166-171.	1.4	15
36	Changes in the Organization of the Secondary Somatosensory Cortex While Processing Lumbar Proprioception and the Relationship With Sensorimotor Control in Low Back Pain. <i>Clinical Journal of Pain</i> , 2019, 35, 394-406.	1.9	14

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37	Scaling and non-scaling of muscle activity, kinematics, and dynamics in sit-ups with different degrees of difficulty. <i>Journal of Electromyography and Kinesiology</i> , 2006, 16, 506-521.	1.7	13
38	Postoperative bracing after lumbar surgery: a survey amongst spinal surgeons in Belgium. <i>European Spine Journal</i> , 2019, 28, 442-449.	2.2	13
39	Factors Associated With the Ultrasound Characteristics of the Lumbar Multifidus: A Systematic Review. <i>PM and R</i> , 2020, 12, 82-100.	1.6	13
40	Associations between Measures of Structural Morphometry and Sensorimotor Performance in Individuals with Nonspecific Low Back Pain. <i>American Journal of Neuroradiology</i> , 2017, 38, 183-191.	2.4	12
41	Structural Brain Connectivity and the Sit-to-Stand-to-Sit Performance in Individuals with Nonspecific Low Back Pain: A Diffusion Magnetic Resonance Imaging-Based Network Analysis. <i>Brain Connectivity</i> , 2016, 6, 795-803.	1.7	11
42	Proprioceptive use and sit-to-stand-to-sit after lumbar microdiscectomy: The effect of surgical approach and early physiotherapy. <i>Clinical Biomechanics</i> , 2016, 32, 40-48.	1.2	10
43	Rehabilitation to improve outcomes of lumbar fusion surgery: a systematic review with meta-analysis. <i>European Spine Journal</i> , 2022, 31, 1525-1545.	2.2	10
44	Linear and Non-linear Dynamic Methods Toward Investigating Proprioception Impairment in Non-specific Low Back Pain Patients. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 584952.	4.1	7
45	The Function Assessment Scale for Spinal Deformity. <i>Spine</i> , 2022, 47, E64-E72.	2.0	6
46	Altered variability in proprioceptive postural strategy in people with recurrent low back pain. , 2013, , 135-144.		3
47	What is the relation between proprioception and low back pain?. , 2013, , 219-230.		2
48	Reliability and agreement of lumbar multifidus volume and fat fraction quantification using magnetic resonance imaging. <i>Musculoskeletal Science and Practice</i> , 2022, 59, 102532.	1.3	2
49	Response to letter to the Editor "Altered breathing pattern valuation relative to dyspnea assessment and treatment for low back pain: Effects of clinical practice"™. <i>Musculoskeletal Science and Practice</i> , 2017, 27, e3-e4.	1.3	0
50	Response to the Letter to the Editor on "The Effectiveness of Technology-Supported Exercise Therapy for Low Back Pain: A Systematic Review"€. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, e96-e97.	1.4	0