

# Stuart M McGill

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,727  
citations

172457

29  
h-index

161849

54  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination of muscle activity to assure stability of the lumbar spine. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 353-359.	1.7	428
2	Electromyographic activity of the abdominal and low back musculature during the generation of isometric and dynamic axial trunk torque: Implications for lumbar mechanics. <i>Journal of Orthopaedic Research</i> , 1991, 9, 91-103.	2.3	401
3	The biomechanics of low back injury: Implications on current practice in industry and the clinic. <i>Journal of Biomechanics</i> , 1997, 30, 465-475.	2.1	361
4	Abdominal Muscle Response During Curl-ups on Both Stable and Labile Surfaces. <i>Physical Therapy</i> , 2000, 80, 564-569.	2.4	268
5	Quantification of Lumbar Stability by Using 2 Different Abdominal Activation Strategies. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 54-62.	0.9	196
6	Lumbar spine stability can be augmented with an abdominal belt and/or increased intra-abdominal pressure. <i>European Spine Journal</i> , 1999, 8, 388-395.	2.2	163
7	Exercises for Spine Stabilization: Motion/Motor Patterns, Stability Progressions, and Clinical Technique. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 118-126.	0.9	154
8	The Back Squat. <i>Strength and Conditioning Journal</i> , 2014, 36, 4-27.	1.4	147
9	Frequency response of spine extensors during rapid isometric contractions: effects of muscle length and tension. <i>Journal of Electromyography and Kinesiology</i> , 1998, 8, 227-232.	1.7	128
10	Lumbar Posture—Should It, and Can It, Be Modified? A Study of Passive Tissue Stiffness and Lumbar Position During Activities of Daily Living. <i>Physical Therapy</i> , 2003, 83, 907-917.	2.4	120
11	Previous history of LBP with work loss is related to lingering deficits in biomechanical, physiological, personal, psychosocial and motor control characteristics. <i>Ergonomics</i> , 2003, 46, 731-746.	2.1	102
12	A simple polynomial that predicts low-back compression during complex 3-D tasks. <i>Ergonomics</i> , 1996, 39, 1107-1118.	2.1	101
13	Relationship Between Muscle Force and Stiffness in the Whole Mammalian Muscle: A Simulation Study. <i>Journal of Biomechanical Engineering</i> , 1995, 117, 339-342.	1.3	79
14	Predicting Performance and Injury Resilience From Movement Quality and Fitness Scores in a Basketball Team Over 2 Years. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, 1731-1739.	2.1	71
15	Low back loads while walking and carrying: comparing the load carried in one hand or in both hands. <i>Ergonomics</i> , 2013, 56, 293-302.	2.1	68
16	Kettlebell Swing, Snatch, and Bottoms-Up Carry: Back and Hip Muscle Activation, Motion, and Low Back Loads. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, 16-27.	2.1	66
17	Comparison of Different Strongman Events: Trunk Muscle Activation and Lumbar Spine Motion, Load, and Stiffness. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 1148-1161.	2.1	61
18	Frozen storage increases the ultimate compressive load of porcine vertebrae. <i>Journal of Orthopaedic Research</i> , 1995, 13, 809-812.	2.3	54

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19	Evidence of a Double Peak in Muscle Activation to Enhance Strike Speed and Force: An Example With Elite Mixed Martial Arts Fighters. <i>Journal of Strength and Conditioning Research</i> , 2010, 24, 348-357.	2.1	48
20	Analysis of Pushing Exercises. <i>Journal of Strength and Conditioning Research</i> , 2014, 28, 105-116.	2.1	48
21	Pushing and pulling: personal mechanics influence spine loads. <i>Ergonomics</i> , 2006, 49, 895-908.	2.1	46
22	Corrective sitting strategies: An examination of muscle activity and spine loading. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 114-119.	1.7	45
23	Linking latest knowledge of injury mechanisms and spine function to the prevention of low back disorders. <i>Journal of Electromyography and Kinesiology</i> , 2004, 14, 43-47.	1.7	44
24	Physical fitness improvements and occupational low-back loading – an exercise intervention study with firefighters. <i>Ergonomics</i> , 2014, 57, 744-763.	2.1	43
25	ABDOMINAL BELTS IN INDUSTRY: A POSITION PAPER ON THEIR ASSETS, LIABILITIES AND USE. <i>AIHA Journal</i> , 1993, 54, 752-754.	0.4	40
26	Clinical tools to quantify torso flexion endurance: Normative data from student and firefighter populations. <i>Occupational Ergonomics</i> , 2010, 9, 55-61.	0.3	36
27	Closure of the annulus fibrosus of the intervertebral disc using a novel suture application device – in vivo porcine and ex vivo biomechanical evaluation. <i>Spine Journal</i> , 2016, 16, 889-895.	1.3	36
28	Annulus Fibrosus Can Strip Hyaline Cartilage End Plate from Subchondral Bone: A Study of the Intervertebral Disk in Tension. <i>Global Spine Journal</i> , 2015, 5, 360-365.	2.3	34
29	Exercise-Based Performance Enhancement and Injury Prevention for Firefighters. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 2441-2459.	2.1	33
30	Assessment of an EMG-based method for continuous estimates of low back compression during asymmetrical occupational tasks. <i>Ergonomics</i> , 1999, 42, 868-879.	2.1	32
31	Isokinetic Leg Strength Profile of Elite Male Basketball Players. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 1332-1337.	2.1	31
32	The Back Squat. <i>Strength and Conditioning Journal</i> , 2015, 37, 13-60.	1.4	27
33	Using a pneumatic support to correct sitting posture for prolonged periods: A study using airline seats. <i>Ergonomics</i> , 2009, 52, 1162-1168.	2.1	22
34	Evolving ergonomics?. <i>Ergonomics</i> , 2009, 52, 80-86.	2.1	22
35	An appraisal of the Functional Movement Screen – grading criteria – Is the composite score sensitive to risky movement behavior?. <i>Physical Therapy in Sport</i> , 2015, 16, 324-330.	1.9	22
36	Ballistic Abdominal Exercises: Muscle Activation Patterns During Three Activities Along the Stability/Mobility Continuum. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 898-905.	2.1	19

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37	Examining the effects of altering hip orientation on gluteus medius and tensor fasciae latae interplay during common non-weight-bearing hip rehabilitation exercises. <i>Clinical Biomechanics</i> , 2014, 29, 971-976.	1.2	18
38	Can the Functional Movement Screen be used to capture changes in spine and knee motion control following 12 weeks of training?. <i>Physical Therapy in Sport</i> , 2017, 23, 50-57.	1.9	16
39	The predictive value of general movement tasks in assessing occupational task performance. <i>Work</i> , 2015, 52, 11-18.	1.1	12
40	Spine loading during laboratory-simulated fireground operations – inter-individual variation and method of load quantification. <i>Ergonomics</i> , 2019, 62, 1426-1438.	2.1	10
41	Muscle activity and spine load during pulling exercises: Influence of stable and labile contact surfaces and technique coaching. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 652-665.	1.7	9
42	Increased core stability is associated with reduced knee valgus during single-leg landing tasks: Investigating lumbar spine and hip joint rotational stiffness. <i>Journal of Biomechanics</i> , 2021, 116, 110240.	2.1	9
43	The effect of short-term isometric training on core/torso stiffness. <i>Journal of Sports Sciences</i> , 2017, 35, 1724-1733.	2.0	8
44	The effect of core training on distal limb performance during ballistic strike manoeuvres. <i>Journal of Sports Sciences</i> , 2017, 35, 1768-1780.	2.0	8
45	Evaluation of an injectable hydrogel and polymethyl methacrylate in restoring mechanics to compressively fractured spine motion segments. <i>Spine Journal</i> , 2016, 16, 1404-1412.	1.3	7
46	Effect of Modulated TENS on Muscle Activation, Oxygenation, and Pain: Searching for a Physiological Mechanism. <i>Journal of Musculoskeletal Pain</i> , 2005, 13, 19-30.	0.3	6
47	A proposed method to detect kinematic differences between and within individuals. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 479-487.	1.7	6
48	Personal and psychosocial variables in workers with a previous history of LBP: 16-month follow-up. <i>Ergonomics</i> , 2005, 48, 200-206.	2.1	4
49	A Six-Week Trial of Hula Hooping Using a Weighted Hoop. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 1279-1284.	2.1	4
50	Evidence on the Ability of a Pneumatic Decompression Belt to Restore Spinal Height Following an Acute Bout of Exercise. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2016, 39, 304-310.	0.9	4
51	Choice predicts the feedback negativity. <i>Psychophysiology</i> , 2017, 54, 1800-1811.	2.4	4
52	Invited Commentary on Intrarater and Interrater Reliability of Select Clinical Tests in Patients Referred for Diagnostic Facet Joint Blocks in the Cervical Spine. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013, 94, 1635-1637.	0.9	2
53	A videofluoroscopy-based tracking algorithm for quantifying the time course of human intervertebral displacements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 794-802.	1.6	2
54	Digital tracking algorithm reveals the influence of structural irregularities on joint movements in the human cervical spine. <i>Clinical Biomechanics</i> , 2018, 56, 11-17.	1.2	2