

# Jacek Cholewicki

## List of Publications by Year in descending order

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92  
papers

9,364  
citations

71004

43  
h-index

58552

86  
g-index

94  
all docs

94  
docs citations

94  
times ranked

5205  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of osteopathic manipulative treatment on pain and disability in patients with chronic neck pain: A single-blind randomized controlled trial. <i>PM and R</i> , 2022, 14, 1417-1429.	0.9	9
2	How Individuals With Low Back Pain Conceptualize Their Condition: A Collaborative Modeling Approach. <i>Journal of Pain</i> , 2022, 23, 1060-1070.	0.7	2
3	Regularized nonlinear regression for simultaneously selecting and estimating key model parameters: Application to head-neck position tracking. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 113, 104974.	4.3	2
4	Stability threshold during seated balancing is sensitive to low back pain and safe to assess. <i>Journal of Biomechanics</i> , 2021, 125, 110541.	0.9	4
5	Quantifying trunk neuromuscular control using seated balancing and stability threshold. <i>Journal of Biomechanics</i> , 2020, 112, 110038.	0.9	4
6	Cohort profile: why do people keep hurting their back?. <i>BMC Research Notes</i> , 2020, 13, 538.	0.6	8
7	Trunk stiffness decreases and trunk damping increases with experimental low back pain. <i>Journal of Biomechanics</i> , 2020, 112, 110053.	0.9	6
8	Feasibility of Incorporating Test-Retest Reliability and Model Diversity in Identification of Key Neuromuscular Pathways During Head Position Tracking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 275-282.	2.7	5
9	Building a Collaborative Model of Sacroiliac Joint Dysfunction and Pelvic Girdle Pain to Understand the Diverse Perspectives of Experts. <i>PM and R</i> , 2019, 11, S11-S23.	0.9	8
10	Time to Reflect on the Role of Motor Control in Low Back Pain. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 367-369.	1.7	23
11	Can Biomechanics Research Lead to More Effective Treatment of Low Back Pain? A Point-Counterpoint Debate. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 425-436.	1.7	28
12	Model Simulations Challenge Reductionist Research Approaches to Studying Chronic Low Back Pain. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 477-481.	1.7	18
13	Are Stability and Instability Relevant Concepts for Back Pain?. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 415-424.	1.7	35
14	Development of a collaborative model of low back pain: report from the 2017 NASS consensus meeting. <i>Spine Journal</i> , 2019, 19, 1029-1040.	0.6	23
15	Selecting Sensitive Parameter Subsets in Dynamical Models With Application to Biomechanical System Identification. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	6
16	Friday, September 28, 2018 8:00 AM–9:00 AM interdisciplinary spine forum: abstract presentations. <i>Spine Journal</i> , 2018, 18, S71.	0.6	0
17	Degenerative Spondylolisthesis Is Related to Multiparity and Hysterectomies in Older Women. <i>Spine</i> , 2017, 42, 1643-1647.	1.0	12
18	Can lumbosacral orthoses cause trunk muscle weakness? A systematic review of literature. <i>Spine Journal</i> , 2017, 17, 589-602.	0.6	36

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19	Reliability of assessing postural control during seated balancing using a physical human-robot interaction. <i>Journal of Biomechanics</i> , 2017, 64, 198-205.	0.9	9
20	Robotic solutions to facilitate studying human motor control. , 2017, , .		2
21	Time-Domain Optimal Experimental Design in Human Seated Postural Control Testing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, 0545011-545017.	0.9	7
22	Quantitative measures of sagittal plane head-neck control: A test-retest reliability study. <i>Journal of Biomechanics</i> , 2015, 48, 549-554.	0.9	11
23	Biomechanical Analysis of Augmented Plate Fixation for the Treatment of Vertical Shear Femoral Neck Fractures. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, 144-150.	0.7	77
24	A Randomized Clinical Trial Comparing Extensible and Inextensible Lumbosacral Orthoses and Standard Care Alone in the Management of Lower Back Pain. <i>Spine</i> , 2014, 39, 1733-1742.	1.0	34
25	Reliability of assessing trunk motor control using position and force tracking and stabilization tasks. <i>Journal of Biomechanics</i> , 2014, 47, 44-49.	0.9	15
26	Determination of body segment masses and centers of mass using a force plate method. <i>Medical Engineering and Physics</i> , 2014, 36, 805-806.	0.8	2
27	Robust Optimal Experimental Design for Study of the Human Head-Neck Tracking Response. , 2012, , .		3
28	Spine stability: Lessons from balancing a stick. <i>Clinical Biomechanics</i> , 2011, 26, 325-330.	0.5	47
29	A comparison of a maximum exertion method and a model-based, sub-maximum exertion method for normalizing trunk EMG. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 767-773.	0.7	22
30	Expanding our view of the spine system. <i>European Spine Journal</i> , 2010, 19, 331-332.	1.0	16
31	MSU Classification for herniated lumbar discs on MRI: toward developing objective criteria for surgical selection. <i>European Spine Journal</i> , 2010, 19, 1087-1093.	1.0	130
32	The effects of a three-week use of lumbosacral orthoses on trunk muscle activity and on the muscular response to trunk perturbations. <i>BMC Musculoskeletal Disorders</i> , 2010, 11, 154.	0.8	29
33	Optimal Control of the Spine System. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 051004.	0.6	15
34	Comparison of trunk stiffness provided by different design characteristics of lumbosacral orthoses. <i>Clinical Biomechanics</i> , 2010, 25, 110-114.	0.5	36
35	Comparison of Trunk Proprioception Between Patients With Low Back Pain and Healthy Controls. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010, 91, 1327-1331.	0.5	123
36	Optimal Neuromuscular Control of Spine Systems. , 2009, , .		0

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37	Trunk muscle response to various protocols of lumbar traction. <i>Manual Therapy</i> , 2009, 14, 562-566.	1.6	16
38	Changes in the mechanical properties of the trunk in low back pain may be associated with recurrence. <i>Journal of Biomechanics</i> , 2009, 42, 61-66.	0.9	199
39	Effects of reflex delays on postural control during unstable seated balance. <i>Journal of Biomechanics</i> , 2009, 42, 164-170.	0.9	67
40	The Effects of Stochastic Resonance Stimulation on Spine Proprioception and Postural Control in Chronic Low Back Pain Patients. <i>Spine</i> , 2009, 34, 316-321.	1.0	32
41	Trunk antagonist co-activation is associated with impaired neuromuscular performance. <i>Experimental Brain Research</i> , 2008, 188, 457-463.	0.7	31
42	Spine stability: The six blind men and the elephant. <i>Clinical Biomechanics</i> , 2007, 22, 266-274.	0.5	220
43	Deficits in Neuromuscular Control of the Trunk Predict Knee Injury Risk. <i>American Journal of Sports Medicine</i> , 2007, 35, 1123-1130.	1.9	723
44	Lumbosacral orthoses reduce trunk muscle activity in a postural control task. <i>Journal of Biomechanics</i> , 2007, 40, 1731-1736.	0.9	48
45	The effect of background muscle activity on computerized detection of sEMG onset and offset. <i>Journal of Biomechanics</i> , 2007, 40, 3521-3526.	0.9	29
46	The Effects of Core Proprioception on Knee Injury. <i>American Journal of Sports Medicine</i> , 2007, 35, 368-373.	1.9	326
47	Muscle activation imbalance and low-back injury in varsity athletes. <i>Journal of Electromyography and Kinesiology</i> , 2006, 16, 264-272.	0.7	52
48	The effects of trunk stiffness on postural control during unstable seated balance. <i>Experimental Brain Research</i> , 2006, 174, 694-700.	0.7	110
49	Chronic low back pain. <i>Current Pain and Headache Reports</i> , 2006, 10, 431-436.	1.3	20
50	The Effects of a 3-Week Use of Lumbosacral Orthoses on Proprioception in the Lumbar Spine. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2006, 36, 225-231.	1.7	39
51	Delayed Trunk Muscle Reflex Responses Increase the Risk of Low Back Injuries. <i>Spine</i> , 2005, 30, 2614-2620.	1.0	287
52	The effects of lumbosacral orthoses on spine stability: What changes in EMG can be expected?. <i>Journal of Orthopaedic Research</i> , 2004, 22, 1150-1155.	1.2	30
53	The effects of visual input on postural control of the lumbar spine in unstable sitting. <i>Human Movement Science</i> , 2003, 22, 237-252.	0.6	63
54	The effect of increased peripheral suture purchase on the strength of flexor tendon repairs. <i>Journal of Hand Surgery</i> , 2003, 28, 464-469.	0.7	63

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55	Trunk muscle activation in low-back pain patients, an analysis of the literature. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 333-351.	0.7	511
56	Coordination of muscle activity to assure stability of the lumbar spine. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 353-359.	0.7	428
57	Trunk Muscle Recruitment Patterns in Patients With Low Back Pain Enhance the Stability of the Lumbar Spine. <i>Spine</i> , 2003, 28, 834-841.	1.0	307
58	Comparison of Motion Restriction and Trunk Stiffness Provided by Three Thoracolumbosacral Orthoses (TLSOs). <i>Journal of Spinal Disorders and Techniques</i> , 2003, 16, 461-468.	1.8	26
59	Trunk muscle recruitment patterns in patients with low back pain enhance the stability of the lumbar spine. <i>Spine</i> , 2003, 28, 834-41.	1.0	110
60	Neuromuscular Function in Athletes Following Recovery From a Recent Acute Low Back Injury. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2002, 32, 568-575.	1.7	85
61	Effects of the abdominal belt on muscle-generated spinal stability and L4/L5 joint compression force. <i>Ergonomics</i> , 2002, 45, 501-513.	1.1	29
62	Relative contribution of trunk muscles to the stability of the lumbar spine during isometric exertions. <i>Clinical Biomechanics</i> , 2002, 17, 99-105.	0.5	260
63	Can increased intra-abdominal pressure in humans be decoupled from trunk muscle co-contraction during steady state isometric exertions?. <i>European Journal of Applied Physiology</i> , 2002, 87, 127-133.	1.2	57
64	Effect of suture locking and suture caliber on fatigue strength of flexor tendon repairs. <i>Journal of Hand Surgery</i> , 2001, 26, 340-346.	0.7	129
65	Impaired Postural Control of the Lumbar Spine Is Associated With Delayed Muscle Response Times in Patients With Chronic Idiopathic Low Back Pain. <i>Spine</i> , 2001, 26, 724-730.	1.0	487
66	Mechanical Properties of the Human Cervical Spine as Shown by Three-Dimensional Load-Displacement Curves. <i>Spine</i> , 2001, 26, 2692-2700.	1.0	423
67	Canal and Intervertebral Foramen Encroachments of a Burst Fracture. <i>Spine</i> , 2001, 26, 1231-1237.	1.0	16
68	A History of Low Back Injury is a Risk Factor for Recurrent Back Injuries in Varsity Athletes. <i>American Journal of Sports Medicine</i> , 2001, 29, 795-800.	1.9	111
69	Biomechanical Basis for Stability: An Explanation to Enhance Clinical Utility. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2001, 31, 96-100.	1.7	81
70	Disc Degeneration. <i>Spine</i> , 2000, 25, 2171-2175.	1.0	45
71	A Study of Stiffness Protocol as Exemplified by Testing of a Burst Fracture Model in Sagittal Plane. <i>Spine</i> , 2000, 25, 2748-2754.	1.0	19
72	Muscle Response Pattern to Sudden Trunk Loading in Healthy Individuals and in Patients with Chronic Low Back Pain. <i>Spine</i> , 2000, 25, 947-954.	1.0	444

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73	Equivalence of single and incremental subfailure stretches of rabbit anterior cruciate ligament. Journal of Orthopaedic Research, 2000, 18, 841-848.	1.2	11
74	Effects of external trunk loads on lumbar spine stability. Journal of Biomechanics, 2000, 33, 1377-1385.	0.9	220
75	Superiority of incremental trauma approach in experimental burst fracture studies. Clinical Biomechanics, 2000, 15, 73-78.	0.5	32
76	The role of multiple strands and locking sutures on gap formation of flexor tendon repairs during cyclical loading. Journal of Hand Surgery, 2000, 25, 714-720.	0.7	128
77	Intra-abdominal pressure mechanism for stabilizing the lumbar spine. Journal of Biomechanics, 1999, 32, 13-17.	0.9	239
78	Subfailure injury affects the relaxation behavior of rabbit ACL. Clinical Biomechanics, 1999, 14, 24-31.	0.5	32
79	The Effect of Anabolic Steroids and Corticosteroids on Healing of Muscle Contusion Injury. American Journal of Sports Medicine, 1999, 27, 2-9.	1.9	134
80	Head kinematics during in vitro whiplash simulation. Accident Analysis and Prevention, 1998, 30, 469-479.	3.0	43
81	Critical load of the human cervical spine: an in vitro experimental study. Clinical Biomechanics, 1998, 13, 11-17.	0.5	198
82	Mechanism of whiplash injury. Clinical Biomechanics, 1998, 13, 239-249.	0.5	125
83	Authors?? Response. Journal of Spinal Disorders, 1998, 11, 455.	1.1	0
84	Simulation of Whiplash Trauma Using Whole Cervical Spine Specimens. Spine, 1998, 23, 17-24.	1.0	130
85	Whiplash Produces an S-Shaped Curvature of the Neck With Hyperextension at Lower Levels. Spine, 1997, 22, 2489-2494.	1.0	209
86	Stabilizing Function of Trunk Flexor-Extensor Muscles Around a Neutral Spine Posture. Spine, 1997, 22, 2207-2212.	1.0	522
87	Effects of Posture and Structure on Three-Dimensional Coupled Rotations in the Lumbar Spine. Spine, 1996, 21, 2421-2428.	1.0	81
88	A simple polynomial that predicts low-back compression during complex 3-D tasks. Ergonomics, 1996, 39, 1107-1118.	1.1	101
89	Comparison of muscle forces and joint load from an optimization and EMG assisted lumbar spine model: Towards development of a hybrid approach. Journal of Biomechanics, 1995, 28, 321-331.	0.9	219
90	Relationship Between Muscle Force and Stiffness in the Whole Mammalian Muscle: A Simulation Study. Journal of Biomechanical Engineering, 1995, 117, 339-342.	0.6	79

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91	EMG assisted optimization: A hybrid approach for estimating muscle forces in an indeterminate biomechanical model. <i>Journal of Biomechanics</i> , 1994, 27, 1287-1289.	0.9	130
92	The Mechanical Role of Lumbar Ligaments in Lifting: A Review Article. <i>Journal of Orthopaedic Medicine</i> , 1993, 15, 39-48.	0.0	1