Laura Frey Law

List of Publications by Year
in descending order

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Version: 2024-02-01

88	2,948	172457	175258
papers	citations	29 h-index	52 g-index

95	95	95	3355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Association of Joint Inflammation With Pain Sensitization in Knee Osteoarthritis: The Multicenter Osteoarthritis Study. Arthritis and Rheumatology, 2016, 68, 654-661.	5.6	195
2	A Mechanism-Based Approach to Physical Therapist Management of Pain. Physical Therapy, 2018, 98, 302-314.	2.4	165
3	Sensitivity and sensitisation in relation to pain severity in knee osteoarthritis: trait or state?. Annals of the Rheumatic Diseases, 2015, 74, 682-688.	0.9	158
4	Exercise-induced pain and analgesia? Underlying mechanisms and clinical translation. Pain, 2018, 159, S91-S97.	4.2	146
5	A New Transient Sham TENS Device Allows for Investigator Blinding While Delivering a True Placebo Treatment. Journal of Pain, 2010, 11, 230-238.	1.4	113
6	Endurance time is joint-specific: A modelling and meta-analysis investigation. Ergonomics, 2010, 53, 109-129.	2.1	109
7	The relationship between quadriceps muscle weakness and worsening of knee pain in the MOST cohort: a 5-year longitudinal study. Osteoarthritis and Cartilage, 2013, 21, 1154-1159.	1.3	96
8	A theoretical approach for modeling peripheral muscle fatigue and recovery. Journal of Biomechanics, 2008, 41, 3046-3052.	2.1	93
9	Association between patella alta and the prevalence and worsening of structural features of patellofemoral joint osteoarthritis: The multicenter osteoarthritis study. Arthritis Care and Research, 2010, 62, 1258-1265.	3.4	89
10	Acidic buffer induced muscle pain evokes referred pain and mechanical hyperalgesia in humans. Pain, 2008, 140, 254-264.	4.2	85
11	Massage Reduces Pain Perception and Hyperalgesia in Experimental Muscle Pain: A Randomized, Controlled Trial. Journal of Pain, 2008, 9, 714-721.	1.4	84
12	Examining sex differences in knee pain: the Multicenter Osteoarthritis Study. Osteoarthritis and Cartilage, 2014, 22, 1100-1106.	1.3	83
13	Age-Related Differences in Muscle Fatigue Vary by Contraction Type: A Meta-analysis. Physical Therapy, 2011, 91, 1153-1165.	2.4	76
14	Electrically Induced Muscle Contractions Influence Bone Density Decline After Spinal Cord Injury. Spine, 2006, 31, 548-553.	2.0	73
15	Association between measures of trochlear morphology and structural features of patellofemoral joint osteoarthritis on MRI: The MOST study. Journal of Orthopaedic Research, 2012, 30, 1-8.	2.3	72
16	How does physical activity modulate pain?. Pain, 2017, 158, 369-370.	4.2	68
17	Effects of electrically induced fatigue on the twitch and tetanus of paralyzed soleus muscle in humans. Journal of Applied Physiology, 1997, 82, 1499-1507.	2.5	67
18	Preserved emotional awareness of pain in a patient with extensive bilateral damage to the insula, anterior cingulate, and amygdala. Brain Structure and Function, 2016, 221, 1499-1511.	2.3	64

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19	Pain sensitivity profiles in patients with advanced knee osteoarthritis. Pain, 2016, 157, 1988-1999.	4.2	63
20	Pain Susceptibility Phenotypes in Those Free of Knee Pain With or at Risk of Knee Osteoarthritis: The Multicenter Osteoarthritis Study. Arthritis and Rheumatology, 2019, 71, 542-549.	5.6	62
21	Sex Differences in Fatigue Resistance Are Muscle Group Dependent. Medicine and Science in Sports and Exercise, 2010, 42, 1943-1950.	0.4	59
22	Fatigue-enhanced hyperalgesia in response to muscle insult: Induction and development occur in a sex-dependent manner. Pain, 2013, 154, 2668-2676.	4.2	55
23	Lower-Order Pain-Related Constructs Are More Predictive of Cold Pressor Pain Ratings than Higher-Order Personality Traits. Journal of Pain, 2010, 11, 681-691.	1.4	49
24	A three-compartment muscle fatigue model accurately predicts joint-specific maximum endurance times for sustained isometric tasks. Journal of Biomechanics, 2012, 45, 1803-1808.	2.1	47
25	Knee and Elbow 3D Strength Surfaces: Peak Torque-Angle-Velocity Relationships. Journal of Applied Biomechanics, 2012, 28, 726-737.	0.8	40
26	Psychological factors predict local and referred experimental muscle pain: A cluster analysis in healthy adults. European Journal of Pain, 2013, 17, 903-915.	2.8	37
27	The Influence of the Contralateral Knee Prior to Knee Arthroplasty on Post-Arthroplasty Function: The Multicenter Osteoarthritis Study. Journal of Bone and Joint Surgery - Series A, 2013, 95, 989-993.	3.0	34
28	Physical activity is related to function and fatigue but not pain in women with fibromyalgia: baseline analyses from the Fibromyalgia Activity Study with TENS (FAST). Arthritis Research and Therapy, 2018, 20, 199.	3.5	33
29	Relationships between maximum holding time and ratings of pain and exertion differ for static and dynamic tasks. Applied Ergonomics, 2010, 42, 9-15.	3.1	32
30	Modeling nonlinear errors in surface electromyography due to baseline noise: A new methodology. Journal of Biomechanics, 2011, 44, 202-205.	2.1	31
31	Participation Following Knee Replacement: The MOST Cohort Study. Physical Therapy, 2013, 93, 1467-1474.	2.4	30
32	Perceived function and physical performance are associated with pain and fatigue in women with fibromyalgia. Arthritis Research and Therapy, 2016, 18, 68.	3.5	30
33	The interaction between pain and movement. Journal of Hand Therapy, 2020, 33, 60-66.	1.5	30
34	Modification of a three-compartment muscle fatigue model to predict peak torque decline during intermittent tasks. Journal of Biomechanics, 2018, 77, 16-25.	2.1	29
35	Mathematical models of human paralyzed muscle after long-term training. Journal of Biomechanics, 2007, 40, 2587-2595.	2.1	27
36	Muscle coactivation: A generalized or localized motor control strategy?. Muscle and Nerve, 2013, 48, 578-585.	2.2	27

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37	Association of Pain Sensitization and Conditioned Pain Modulation to Pain Patterns in Knee Osteoarthritis. Arthritis Care and Research, 2022, 74, 107-112.	3.4	26
38	Predicting human chronically paralyzed muscle force: a comparison of three mathematical models. Journal of Applied Physiology, 2006, 100, 1027-1036.	2.5	24
39	Lab-based validation of different data processing methods for wrist-worn ActiGraph accelerometers in young adults. Physiological Measurement, 2017, 38, 1045-1060.	2.1	22
40	Conditioned Pain Modulation in Chronic Low Back Pain. Clinical Journal of Pain, 2020, 36, 135-141.	1.9	22
41	Femoral loads during passive, active, and activeâ€“resistive stance after spinal cord injury: a mathematical model. Clinical Biomechanics, 2004, 19, 313-321.	1.2	21
42	Mathematical models use varying parameter strategies to represent paralyzed muscle force properties: a sensitivity analysis. Journal of NeuroEngineering and Rehabilitation, 2005, 2, 12.	4.6	21
43	Multiple Nonspecific Sites of Joint Pain Outside the Knees Develop in Persons With Knee Pain. Arthritis and Rheumatology, 2017, 69, 335-342.	5.6	21
44	Does Clinically Important Change in Function After Knee Replacement Guarantee Good Absolute Function? The Multicenter Osteoarthritis Study. Journal of Rheumatology, 2014, 41, 60-64.	2.0	20
45	Three-dimensional motion capture protocol for seated operator in whole body vibration. International Journal of Industrial Ergonomics, 2008, 38, 425-433.	2.6	19
46	The association between walking speed from short- and standard-distance tests with the risk of all-cause mortality among adults with radiographic knee osteoarthritis: data from three large United States cohort studies. Osteoarthritis and Cartilage, 2020, 28, 1551-1558.	1.3	18
47	The Effect of Widespread Pain on Knee Pain Worsening, Incident Knee Osteoarthritis (OA), and Incident Knee Pain: The Multicenter OA (MOST) Study. Journal of Rheumatology, 2017, 44, 493-498.	2.0	17
48	Knee Pain and Structural Damage as Risk Factors for Incident Widespread Pain: Data From the Multicenter Osteoarthritis Study. Arthritis Care and Research, 2017, 69, 826-832.	3.4	16
49	3D strength surfaces for ankle plantarâ€•and dorsiâ€flexion in healthy adults: an isometric and isokinetic dynamometry study. Journal of Foot and Ankle Research, 2016, 9, 43.	1.9	15
50	A physics-based digital human model. International Journal of Vehicle Design, 2009, 51, 324.	0.3	14
51	Pain rating schema: three distinct subgroups of individuals emerge when rating mild, moderate, and severe pain. Journal of Pain Research, 2013, 7, 13.	2.0	11
52	Underwater Forces Produced by the Hydro-Tone Bell. Journal of Orthopaedic and Sports Physical Therapy, 1996, 23, 267-271.	3.5	10
53	Shoulder, Knee, and Hip Pain as Initial Symptoms of Juvenile Ankylosing Spondylitis: A Case Report. Journal of Orthopaedic and Sports Physical Therapy, 1998, 27, 167-172.	3.5	10
54	Resistance training protects against muscle pain through activation of androgen receptors in male and female mice. Pain, 2022, 163, 1879-1891.	4.2	10

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55	Accelerometry analysis options produce large differences in lifestyle physical activity measurement. Physiological Measurement, 2020, 41, 065006.	2.1	9
56	The relation of peripheral and central sensitization to muscle co-contraction: the MOST study. Osteoarthritis and Cartilage, 2020, 28, 1214-1219.	1.3	8
57	The association between antagonist hamstring coactivation and episodes of knee joint shifting and buckling. Osteoarthritis and Cartilage, 2015, 23, 1112-1121.	1.3	7
58	Multisensory Sensitivity is Related to Deep-Tissue but Not Cutaneous Pain Sensitivity in Healthy Individuals . Journal of Pain Research, 2020, Volume 13, 2493-2508.	2.0	7
59	Influence of Antagonistic Hamstring Coactivation on Measurement of Quadriceps Strength in Older Adults. PM and R, 2020, 12, 470-478.	1.6	6
60	A Framework to Study Human Response to Whole Body Vibration. , 0, , .		5
61	Multisensory sensitivity differentiates between multiple chronic pain conditions and pain-free individuals. Pain, 2023, 164, e91-e102.	4.2	5
62	Adapting a fatigue model for shoulder flexion fatigue: Enhancing recovery rate during intermittent rest intervals. Journal of Biomechanics, 2020, 106, 109762.	2.1	4
63	Assessing Multisensory Sensitivity Across Scales: Using the Resulting Core Factors to Create the Multisensory Amplification Scale. Journal of Pain, 2022, 23, 276-288.	1.4	4
64	Wrist joint torque-angle-velocity performance capacity envelope evaluation and modelling. International Journal of Human Factors Modelling and Simulation, 2015, 5, 33.	0.2	3
65	Simulating Motor Units for Fatigue Arm Muscles in Digital Humans. , 0, , .		2
66	Optimisation-based identification of parameters in a mathematical model of muscle fatigue. International Journal of Human Factors Modelling and Simulation, 2019, 7, 34.	0.2	2
67	Choice of Processing Method for Wrist-Worn Accelerometers Influences Interpretation of Free-Living Physical Activity Data in a Clinical Sample. Journal for the Measurement of Physical Behaviour, 2019, 2, 228-236.	0.8	2
68	Depressive symptoms and multi-joint pain partially mediate the relationship between obesity and opioid use in people with knee osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 1263-1269.	1.3	2
69	56 THE ASSOCIATION OF PERIPHERAL AND CENTRAL SENSITIZATION WITH MUSCLE CO-ACTIVATION: A COMMON MECHANISM AFFECTING PAIN AND FUNCTION IN KNEE OA?. Osteoarthritis and Cartilage, 2011, 19, S31-S32.	1.3	1
70	Comment on â€œCan muscle coordination be precisely studied by surface electromyography?â€• Journal of Electromyography and Kinesiology, 2012, 22, 325-326.	1.7	1
71	Modelling three-dimensional human strength capacity: logistic vs. polynomial surface equations. International Journal of Human Factors Modelling and Simulation, 2015, 5, 5.	0.2	1
72	Experimental pain sensitivity in women with vestibulodynia: a pilot study. Proceedings in Obstetrics and Gynecology, 2017, 7, 1-8.	0.1	1

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73	Exercise Much? Arrogance Or Arteries. Medicine and Science in Sports and Exercise, 2010, 42, 561.	0.4	0
74	Frequency and predictors of participation restriction following knee replacement: the most study. Osteoarthritis and Cartilage, 2012, 20, S153.	1.3	0
75	Strength and Fatigue. , 2013, , 127-147.		0
76	The relationship between measures of sensitization and vibratory sense in OA of the knee: the most study. Osteoarthritis and Cartilage, 2013, 21, S264-S265.	1.3	0
77	Sensitization and pain over two years: the multicenter osteoarthritis (most) study. Osteoarthritis and Cartilage, 2014, 22, S19-S20.	1.3	0
78	Relation of smoking to widespread pain, knee pain severity, and pain sensitization: the Multicenter Osteoarthritis (MOST) Study. Osteoarthritis and Cartilage, 2015, 23, A61-A62.	1.3	0
79	Reply. Arthritis and Rheumatology, 2016, 68, 1791-1792.	5.6	0
80	(482) Monocyte phenotype is associated with physical activity and pain outcomes in women with fibromyalgia. Journal of Pain, 2016, 17, S95.	1.4	0
81	Author Response. Physical Therapy, 2018, 98, 817-818.	2.4	0
82	Is the association of body mass index with opioid use mediated by number of painful joints or depressive symptoms: the multicenter osteoarthritis study. Osteoarthritis and Cartilage, 2019, 27, S255.	1.3	0
83	Relation of sensitization and conditioned pain modulation to post-knee replacement pain. Osteoarthritis and Cartilage, 2019, 27, S410.	1.3	0
84	The association of body mass index with pain sensitization: the multicenter osteoarthritis study. Osteoarthritis and Cartilage, 2019, 27, S402.	1.3	0
85	Is there objective evidence of neuropathy in knee osteoarthritis in native or replaced knees based on clinical evaluation? The multicenter osteoarthritis study. Osteoarthritis and Cartilage, 2019, 27, S71-S72.	1.3	0
86	Modeling Human Physical Capability. Human Factors and Ergonomics, 2008, , 50-1-50-12.	0.0	0
87	Sex and Age Differences in Wrist and Hip Accelerometry in Adults. Medicine and Science in Sports and Exercise, 2017, 49, 759-760.	0.4	0
88	Optimisation-based identification of parameters in a mathematical model of muscle fatigue. International Journal of Human Factors Modelling and Simulation, 2019, 7, 34.	0.2	0