Laura Frey Law

List of Publications by Year
in descending order

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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	Multisensory sensitivity differentiates between multiple chronic pain conditions and pain-free individuals. Pain, 2023, 164, e91-e102.	4.2	5
2	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
3	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
4	Resistance training protects against muscle pain through activation of androgen receptors in male and female mice. Pain, 2022, 163, 1879-1891.	4.2	10
5	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
6	The interaction between pain and movement. Journal of Hand Therapy, 2020, 33, 60-66.	1.5	30
7	Influence of Antagonistic Hamstring Coactivation on Measurement of Quadriceps Strength in Older Adults. PM and R, 2020, 12, 470-478.	1.6	6
8	Conditioned Pain Modulation in Chronic Low Back Pain. Clinical Journal of Pain, 2020, 36, 135-141.	1.9	22
9	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
10	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
11	Accelerometry analysis options produce large differences in lifestyle physical activity measurement. Physiological Measurement, 2020, 41, 065006.	2.1	9
12	Adapting a fatigue model for shoulder flexion fatigue: Enhancing recovery rate during intermittent rest intervals. Journal of Biomechanics, 2020, 106, 109762.	2.1	4
13	The relation of peripheral and central sensitization to muscle co-contraction: the MOST study. Osteoarthritis and Cartilage, 2020, 28, 1214-1219.	1.3	8
14	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
15	Relation of sensitization and conditioned pain modulation to post-knee replacement pain. Osteoarthritis and Cartilage, 2019, 27, S410.	1.3	0
16	The association of body mass index with pain sensitization: the multicenter osteoarthritis study. Osteoarthritis and Cartilage, 2019, 27, S402.	1.3	0
17	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
18	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

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19	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
20	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
21	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
22	A Mechanism-Based Approach to Physical Therapist Management of Pain. Physical Therapy, 2018, 98, 302-314.	2.4	165
23	Author Response. Physical Therapy, 2018, 98, 817-818.	2.4	0
24	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
25	Exercise-induced pain and analgesia? Underlying mechanisms and clinical translation. Pain, 2018, 159, S91-S97.	4.2	146
26	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
27	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
28	How does physical activity modulate pain?. Pain, 2017, 158, 369-370.	4.2	68
29	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
30	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
31	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
32	Experimental pain sensitivity in women with vestibulodynia: a pilot study. Proceedings in Obstetrics and Gynecology, 2017, 7, 1-8.	0.1	1
33	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
34	Reply. Arthritis and Rheumatology, 2016, 68, 1791-1792.	5.6	0
35	Pain sensitivity profiles in patients with advanced knee osteoarthritis. Pain, 2016, 157, 1988-1999.	4.2	63
36	Association of Joint Inflammation With Pain Sensitization in Knee Osteoarthritis: The Multicenter Osteoarthritis Study. Arthritis and Rheumatology, 2016, 68, 654-661.	5.6	195

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37	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
38	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
39	(482) Monocyte phenotype is associated with physical activity and pain outcomes in women with fibromyalgia. Journal of Pain, 2016, 17, S95.	1.4	0
40	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
41	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
42	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
43	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
44	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
45	The association between antagonist hamstring coactivation and episodes of knee joint shifting and buckling. Osteoarthritis and Cartilage, 2015, 23, 1112-1121.	1.3	7
46	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
47	Examining sex differences in knee pain: the Multicenter Osteoarthritis Study. Osteoarthritis and Cartilage, 2014, 22, 1100-1106.	1.3	83
48	Sensitization and pain over two years: the multicenter osteoarthritis (most) study. Osteoarthritis and Cartilage, 2014, 22, S19-S20.	1.3	0
49	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
50	Strength and Fatigue. , 2013, , 127-147.		0
51	Muscle coactivation: A generalized or localized motor control strategy?. Muscle and Nerve, 2013, 48, 578-585.	2.2	27
52	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
53	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
54	Participation Following Knee Replacement: The MOST Cohort Study. Physical Therapy, 2013, 93, 1467-1474.	2.4	30

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55	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
56	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
57	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
58	Knee and Elbow 3D Strength Surfaces: Peak Torque-Angle-Velocity Relationships. Journal of Applied Biomechanics, 2012, 28, 726-737.	0.8	40
59	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
60	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
61	Frequency and predictors of participation restriction following knee replacement: the most study. Osteoarthritis and Cartilage, 2012, 20, S153.	1.3	0
62	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
63	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
64	Modeling nonlinear errors in surface electromyography due to baseline noise: A new methodology. Journal of Biomechanics, 2011, 44, 202-205.	2.1	31
65	Age-Related Differences in Muscle Fatigue Vary by Contraction Type: A Meta-analysis. Physical Therapy, 2011, 91, 1153-1165.	2.4	76
66	Sex Differences in Fatigue Resistance Are Muscle Group Dependent. Medicine and Science in Sports and Exercise, 2010, 42, 1943-1950.	0.4	59
67	Exercise Much? Arrogance Or Arteries. Medicine and Science in Sports and Exercise, 2010, 42, 561.	0.4	0
68	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
69	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
70	Endurance time is joint-specific: A modelling and meta-analysis investigation. Ergonomics, 2010, 53, 109-129.	2.1	109
71	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
72	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

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73	A physics-based digital human model. International Journal of Vehicle Design, 2009, 51, 324.	0.3	14
74	A theoretical approach for modeling peripheral muscle fatigue and recovery. Journal of Biomechanics, 2008, 41, 3046-3052.	2.1	93
75	Three-dimensional motion capture protocol for seated operator in whole body vibration. International Journal of Industrial Ergonomics, 2008, 38, 425-433.	2.6	19
76	Acidic buffer induced muscle pain evokes referred pain and mechanical hyperalgesia in humans. Pain, 2008, 140, 254-264.	4.2	85
77	Massage Reduces Pain Perception and Hyperalgesia in Experimental Muscle Pain: A Randomized, Controlled Trial. Journal of Pain, 2008, 9, 714-721.	1.4	84
78	Modeling Human Physical Capability. Human Factors and Ergonomics, 2008, , 50-1-50-12.	0.0	0
79	Mathematical models of human paralyzed muscle after long-term training. Journal of Biomechanics, 2007, 40, 2587-2595.	2.1	27
80	Electrically Induced Muscle Contractions Influence Bone Density Decline After Spinal Cord Injury. Spine, 2006, 31, 548-553.	2.0	73
81	Predicting human chronically paralyzed muscle force: a comparison of three mathematical models. Journal of Applied Physiology, 2006, 100, 1027-1036.	2.5	24
82	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
83	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
84	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
85	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
86	Underwater Forces Produced by the Hydro-Tone Bell. Journal of Orthopaedic and Sports Physical Therapy, 1996, 23, 267-271.	3.5	10
87	Simulating Motor Units for Fatigue Arm Muscles in Digital Humans. , 0, , .		2
88	A Framework to Study Human Response to Whole Body Vibration. , 0, , .		5