

# Arin M Ellingson

## List of Publications by Year in descending order

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33  
papers

445  
citations

759233

12  
h-index

752698

20  
g-index

33  
all docs

33  
docs citations

33  
times ranked

624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intraoperative stitched fluoroscopic images: effect of parallax on angular measurements of the spine. <i>Spine Journal</i> , 2022, 22, 1012-1015.	1.3	4
2	In Situ Lumbar Facet Capsular Ligament Strains Due to Joint Pressure and Residual Strain. <i>Journal of Biomechanical Engineering</i> , 2022, , .	1.3	1
3	Through-thickness regional variation in the mechanical characteristics of the lumbar facet capsular ligament. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1445-1457.	2.8	3
4	A pilot study to assess the healing of meniscal tears in young adult goats. <i>Scientific Reports</i> , 2021, 11, 14181.	3.3	0
5	Normative cervical spine kinematics of a circumduction task. <i>Journal of Electromyography and Kinesiology</i> , 2021, 61, 102591.	1.7	2
6	Asymmetric in-plane shear behavior of isolated cadaveric lumbar facet capsular ligaments: Implications for subject specific biomechanical models. <i>Journal of Biomechanics</i> , 2020, 105, 109814.	2.1	6
7	Validation of an automated shape-matching algorithm for biplane radiographic spine osteokinematics and radiostereometric analysis error quantification. <i>PLoS ONE</i> , 2020, 15, e0228594.	2.5	6
8	Quantifying the effect of posterior spinal instrumentation on the MRI signal of adjacent intervertebral discs. <i>Spine Deformity</i> , 2020, 8, 845-851.	1.5	1
9	Mechanical Performance of Posterior Spinal Instrumentation and Growing Rod Implants. <i>Spine</i> , 2019, 44, 1270-1278.	2.0	6
10	MRI vs CT-based 2D-3D auto-registration accuracy for quantifying shoulder motion using biplane video-radiography. <i>Journal of Biomechanics</i> , 2019, 82, 375-380.	2.1	20
11	Validation of single-plane fluoroscopy and 2D/3D shape-matching for quantifying shoulder complex kinematics. <i>Medical Engineering and Physics</i> , 2018, 52, 69-75.	1.7	17
12	The role of the facet capsular ligament in providing spinal stability. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 712-721.	1.6	20
13	Multiscale modelling of the human lumbar facet capsular ligament: analysing spinal motion from the joint to the neurons. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180550.	3.4	6
14	Development, construct validity, and reproducibility of a mimetic sealed jar measuring the dynamics of opening. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2017, 4, 205566831769222.	0.9	0
15	Anatomical 2D/3D shape-matching in virtual reality: A user interface for quantifying joint kinematics with radiographic imaging. , 2017, , .		6
16	Increased Seat Dump Angle in a Manual Wheelchair Is Associated With Changes in Thoracolumbar Lordosis and Scapular Kinematics During Propulsion. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, 2021-2027.e2.	0.9	9
17	Noninvasive Assessment of Biochemical and Mechanical Properties of Lumbar Discs Through Quantitative Magnetic Resonance Imaging in Asymptomatic Volunteers. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	10
18	Characterizing fluoroscopy based kinematic accuracy as a function of pulse width and velocity. <i>Journal of Biomechanics</i> , 2016, 49, 3741-3745.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Comparative role of disc degeneration and ligament failure on functional mechanics of the lumbar spine. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1009-1018.	1.6	29
20	Altered helical axis patterns of the lumbar spine indicate increased instability with disc degeneration. <i>Journal of Biomechanics</i> , 2015, 48, 361-369.	2.1	20
21	Trend-Centric Motion Visualization: Designing and Applying a New Strategy for Analyzing Scientific Motion Collections. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014, 20, 2644-2653.	4.4	11
22	Quantitative T2* (T2 star) relaxation times predict site specific proteoglycan content and residual mechanics of the intervertebral disc throughout degeneration. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1083-1089.	2.3	37
23	Instantaneous helical axis methodology to identify aberrant neck motion. <i>Clinical Biomechanics</i> , 2013, 28, 731-735.	1.2	17
24	The biomechanics of a multilevel lumbar spine hybrid using nucleus replacement in conjunction with fusion. <i>Spine Journal</i> , 2013, 13, 175-183.	1.3	17
25	Disc Degeneration Assessed by Quantitative T2* (T2 Star) Correlated With Functional Lumbar Mechanics. <i>Spine</i> , 2013, 38, E1533-E1540.	2.0	68
26	Toward mixed method evaluations of scientific visualizations and design process as an evaluation tool. , 2012, 2012, .		15
27	Mimetic Jar Device Capable of Measuring Dynamic Opening Forces: Development and Validation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, .	0.7	0
28	Intervertebral disc viscoelastic parameters and residual mechanics spatially quantified using a hybrid confined/in situ indentation method. <i>Journal of Biomechanics</i> , 2012, 45, 491-496.	2.1	22
29	Biomechanical analysis of pedicle screw thread differential design in an osteoporotic cadaver model. <i>Clinical Biomechanics</i> , 2012, 27, 234-240.	1.2	51
30	Correlation of Intervertebral Disc T2* MRI Presentation with 3D Kinematics. <i>Spine Journal</i> , 2012, 12, S59-S60.	1.3	0
31	Inter-laboratory variability in in vitro spinal segment flexibility testing. <i>Journal of Biomechanics</i> , 2011, 44, 2383-2387.	2.1	31
32	A Non-Linear Model to Describe the Material Properties of Single Lamellae in the Human Annulus Fibrosus. , 2011, , .		1
33	P16. Multilevel Lumbar Spine Hybrid Using an In Situ Cured, Polyurethane Nucleus Replacement Device in Conjunction with TLIF. <i>Spine Journal</i> , 2009, 9, 121S-122S.	1.3	0