

# Kaj Emanuel

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

983  
citations

840728

11  
h-index

677123

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1176  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Mechanics and biology in intervertebral disc degeneration: a vicious circle. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1057-1070.  | 1.3 | 589       |
| 2  | Osteoarthritis and intervertebral disc degeneration: Quite different, quite similar. <i>JOR Spine</i> , 2018, 1, e1033.  | 3.2 | 55        |
| 3  | The poro-elastic behaviour of the intervertebral disc: A new perspective on diurnal fluid flow. <i>Journal of Biomechanics</i> , 2016, 49, 857-863.  | 2.1 | 41        |
| 4  | A Biodegradable Glue for Annulus Closure. <i>Spine</i> , 2015, 40, 622-628.  | 2.0 | 33        |
| 5  | Are axial intervertebral disc biomechanics determined by osmosis?. <i>Journal of Biomechanics</i> , 2018, 70, 4-9.   | 2.1 | 33        |
| 6  | Osmosis and viscoelasticity both contribute to time-dependent behaviour of the intervertebral disc under compressive load: A caprine in vitro study. <i>Journal of Biomechanics</i> , 2018, 70, 10-15.                         | 2.1 | 29        |
| 7  | The relation between the biochemical composition of knee articular cartilage and quantitative MRI: a systematic review and meta-analysis. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 650-662.                             | 1.3 | 29        |
| 8  | Poroelastic behaviour of the degenerating human intervertebral disc: a ten-day study in a loaded disc culture system. , 2015, 29, 330-341.   |     | 26        |
| 9  | Minimally Invasive Micro-Indentation: mapping tissue mechanics at the tip of an 18G needle. <i>Scientific Reports</i> , 2017, 7, 11364.  | 3.3 | 16        |
| 10 | Early changes in the extracellular matrix of the degenerating intervertebral disc, assessed by Fourier transform infrared imaging. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1400-1408.                                  | 1.3 | 13        |
| 11 | Translational challenges for the development of a novel nucleus pulposus substitute: Experimental results from biomechanical and in vivo studies. <i>Journal of Biomaterials Applications</i> , 2016, 30, 983-994.             | 2.4 | 12        |
| 12 | A Novel Spinal Implant for Fusionless Scoliosis Correction: A Biomechanical Analysis of the Motion Preserving Properties of a Posterior Periapical Concave Distraction Device. <i>Global Spine Journal</i> , 2017, 7, 400-409. | 2.3 | 12        |
| 13 | A change in scope: redefining minimally invasive. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3064-3065.   | 4.2 | 12        |
| 14 | Changes in Intervertebral Disk Mechanical Behavior During Early Degeneration. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .   | 1.3 | 11        |
| 15 | Prognostic factors in the progression of intervertebral disc degeneration: Which patient should be targeted with regenerative therapies?. <i>JOR Spine</i> , 2019, 2, e1063.   | 3.2 | 11        |
| 16 | Modelling the catabolic environment of the moderately degenerated disc with a caprine ex vivo loaded disc culture system. , 2020, 40, 21-37.   |     | 11        |
| 17 | The biomechanical effect of single-level laminectomy and posterior instrumentation on spinal stability in degenerative lumbar scoliosis: a human cadaveric study. <i>Neurosurgical Focus</i> , 2019, 46, E15.                  | 2.3 | 11        |
| 18 | Biomechanical properties in motion of lumbar spines with degenerative scoliosis. <i>Journal of Biomechanics</i> , 2020, 102, 109495.   | 2.1 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Functioning Without Cartilage: Older People With Radiographic Knee Osteoarthritis Who Self-Report No Functional Limitations Do Score Lower on a Performance Battery. <i>Journal of Aging and Physical Activity</i> , 2017, 25, 570-575. | 1.0 | 8         |
| 20 | Stiffening of the nucleus pulposus upon axial loading of the intervertebral disc: An experimental in situ study. <i>JOR Spine</i> , 2018, 1, e1005.   | 3.2 | 6         |
| 21 | Data-driven quantification of the effect of wind on athletics performance. <i>European Journal of Sport Science</i> , 2018, 18, 1185-1190.  | 2.7 | 5         |
| 22 | Response to: "A dose" response relationship between severity of disc degeneration and intervertebral disc height in the lumbosacral spine™. <i>Arthritis Research and Therapy</i> , 2016, 18, 41.                                       | 3.5 | 4         |
| 23 | Biomechanical effects of a titanium intervertebral cage as a stand-alone device, and in combination with locking plates in the canine caudal cervical spine. <i>Veterinary Surgery</i> , 2021, 50, 1087-1097.                           | 1.0 | 4         |
| 24 | A novel physiological testing device to study knee biomechanics in vitro. <i>Knee</i> , 2017, 24, 718-725.  | 1.6 | 2         |