

Michael A Adams

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

8,321
citations

47409

49
h-index

100535

70
g-index

70
all docs

70
docs citations

70
times ranked

5162
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A predictive model for creep deformation following vertebral compression fractures. <i>Bone</i> , 2020, 141, 115595. | 1.4 | 1 |
| 2 | Defects of the vertebral end plate: implications for disc degeneration depend on size. <i>Spine Journal</i> , 2017, 17, 727-737. | 0.6 | 30 |
| 3 | How are adjacent spinal levels affected by vertebral fracture and by vertebroplasty? A biomechanical study on cadaveric spines. <i>Spine Journal</i> , 2017, 17, 863-874. | 0.6 | 26 |
| 4 | Vertebroplasty reduces progressive \times^3 creep deformity of fractured vertebrae. <i>Journal of Biomechanics</i> , 2016, 49, 869-874. | 0.9 | 9 |
| 5 | ISSLS Prize Winner. <i>Spine</i> , 2014, 39, 1365-1372. | 1.0 | 72 |
| 6 | Intervertebral discs influence vertebral body bone. <i>Bone</i> , 2013, 57, 476. | 1.4 | 1 |
| 7 | Intervertebral Disc Decompression Following Endplate Damage. <i>Spine</i> , 2013, 38, 1473-1481. | 1.0 | 90 |
| 8 | Increased Chondrocyte Apoptosis Is Associated with Progression of Osteoarthritis in Spontaneous Guinea Pig Models of the Disease. <i>International Journal of Molecular Sciences</i> , 2013, 14, 17729-17743. | 1.8 | 41 |
| 9 | Annulus Fissures Are Mechanically and Chemically Conducive to the Ingrowth of Nerves and Blood Vessels. <i>Spine</i> , 2012, 37, 1883-1891. | 1.0 | 103 |
| 10 | Intervertebral disc degeneration: evidence for two distinct phenotypes. <i>Journal of Anatomy</i> , 2012, 221, 497-506. | 0.9 | 197 |
| 11 | Vertebral deformity arising from an accelerated $\dot{\epsilon}$ creep mechanism. <i>European Spine Journal</i> , 2012, 21, 1684-1691. | 1.0 | 23 |
| 12 | Vertebral fracture and intervertebral discs. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1432-1432. | 3.1 | 7 |
| 13 | Mechanical Function of Vertebral Body Osteophytes, as Revealed by Experiments on Cadaveric Spines. <i>Spine</i> , 2011, 36, 770-777. | 1.0 | 64 |
| 14 | Biomechanics of vertebral compression fractures and clinical application. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 1703-1710. | 1.3 | 57 |
| 15 | Time-Dependent Compressive Deformation of the Ageing Spine. <i>Spine</i> , 2010, 35, 386-394. | 1.0 | 47 |
| 16 | Is Activation of the Back Muscles Impaired by Creep or Muscle Fatigue?. <i>Spine</i> , 2010, 35, 517-525. | 1.0 | 73 |
| 17 | Is kyphoplasty better than vertebroplasty in restoring normal mechanical function to an injured spine?. <i>Bone</i> , 2010, 46, 1050-1057. | 1.4 | 23 |
| 18 | Vertebral fractures in the elderly may not always be $\dot{\epsilon}$ osteoporotic. <i>Bone</i> , 2010, 47, 111-116. | 1.4 | 42 |

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|----|---|-----|-----------|
| 19 | Healing of a painful intervertebral disc should not be confused with reversing disc degeneration: Implications for physical therapies for discogenic back pain. <i>Clinical Biomechanics</i> , 2010, 25, 961-971. | 0.5 | 83 |
| 20 | Early enhanced exercise: Damaging or beneficial to joints?. <i>Equine Veterinary Journal</i> , 2009, 41, 515-516. | 0.9 | 2 |
| 21 | Vertebral fractures usually affect the cranial endplate because it is thinner and supported by less-dense trabecular bone. <i>Bone</i> , 2009, 44, 372-379. | 1.4 | 150 |
| 22 | Bone creep can cause progressive vertebral deformity. <i>Bone</i> , 2009, 45, 466-472. | 1.4 | 58 |
| 23 | The internal mechanical functioning of intervertebral discs and articular cartilage, and its relevance to matrix biology. <i>Matrix Biology</i> , 2009, 28, 384-389. | 1.5 | 109 |
| 24 | Vertebroplasty. <i>Spine</i> , 2009, 34, 2865-2873. | 1.0 | 56 |
| 25 | Biomechanical implications of degenerative joint disease in the apophyseal joints of human thoracic and lumbar vertebrae. <i>American Journal of Physical Anthropology</i> , 2008, 136, 318-326. | 2.1 | 50 |
| 26 | Can compressive stress be measured experimentally within the annulus fibrosus of degenerated intervertebral discs?. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2008, 222, 161-170. | 1.0 | 16 |
| 27 | Swelling of articular cartilage depends on the integrity of adjacent cartilage and bone. <i>Biorheology</i> , 2008, 45, 365-374. | 1.2 | 21 |
| 28 | Strength of the Cervical Spine in Compression and Bending. <i>Spine</i> , 2007, 32, 1612-1620. | 1.0 | 60 |
| 29 | When Are Intervertebral Discs Stronger Than Their Adjacent Vertebrae?. <i>Spine</i> , 2007, 32, 2455-2461. | 1.0 | 43 |
| 30 | Letter to the Editor. <i>Clinical Biomechanics</i> , 2007, 22, 486. | 0.5 | 6 |
| 31 | Mechanical efficacy of vertebroplasty: Influence of cement type, BMD, fracture severity, and disc degeneration. <i>Bone</i> , 2007, 40, 1110-1119. | 1.4 | 71 |
| 32 | The internal mechanical properties of cervical intervertebral discs as revealed by stress profilometry. <i>European Spine Journal</i> , 2007, 16, 1701-1709. | 1.0 | 64 |
| 33 | Outer annulus tears have less effect than endplate fracture on stress distributions inside intervertebral discs: Relevance to disc degeneration. <i>Clinical Biomechanics</i> , 2006, 21, 1013-1019. | 0.5 | 51 |
| 34 | What is Intervertebral Disc Degeneration, and What Causes It?. <i>Spine</i> , 2006, 31, 2151-2161. | 1.0 | 1,339 |
| 35 | Intervertebral Disc Degeneration Can Predispose to Anterior Vertebral Fractures in the Thoracolumbar Spine. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1409-1416. | 3.1 | 137 |
| 36 | Discogenic Origins of Spinal Instability. <i>Spine</i> , 2005, 30, 2621-2630. | 1.0 | 158 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Spine biomechanics. <i>Journal of Biomechanics</i> , 2005, 38, 1972-1983. | 0.9 | 220 |
| 38 | Increased apoptosis in human osteoarthritic cartilage corresponds to reduced cell density and expression of caspase-3. <i>Arthritis and Rheumatism</i> , 2004, 50, 507-515. | 6.7 | 148 |
| 39 | Neural arch load-bearing in old and degenerated spines. <i>Journal of Biomechanics</i> , 2004, 37, 197-204. | 0.9 | 127 |
| 40 | Cyclic Loading Can Denature Type II Collagen in Articular Cartilage. <i>Connective Tissue Research</i> , 2004, 45, 174-180. | 1.1 | 16 |
| 41 | Intervertebral Disc Degeneration Can Lead to "Stress-Shielding" of the Anterior Vertebral Body. <i>Spine</i> , 2004, 29, 774-782. | 1.0 | 153 |
| 42 | Propagation of surface fissures in articular cartilage in response to cyclic loading in vitro. <i>Clinical Biomechanics</i> , 2003, 18, 960-968. | 0.5 | 55 |
| 43 | Internal Stress Distribution in Cervical Intervertebral Discs. <i>Journal of Spinal Disorders and Techniques</i> , 2003, 16, 441-449. | 1.8 | 90 |
| 44 | Lumbar loading during lifting: a comparative study of three measurement techniques. <i>Journal of Electromyography and Kinesiology</i> , 2001, 11, 337-345. | 0.7 | 65 |
| 45 | How severe must repetitive loading be to kill chondrocytes in articular cartilage?. <i>Osteoarthritis and Cartilage</i> , 2001, 9, 499-507. | 0.6 | 133 |
| 46 | Effects of Backward Bending on Lumbar Intervertebral Discs. <i>Spine</i> , 2000, 25, 431-438. | 1.0 | 96 |
| 47 | Sudden and Unexpected Loading Generates High Forces on the Lumbar Spine. <i>Spine</i> , 2000, 25, 842-852. | 1.0 | 86 |
| 48 | Mechanical Initiation of Intervertebral Disc Degeneration. <i>Spine</i> , 2000, 25, 1625-1636. | 1.0 | 632 |
| 49 | Prediction of maximal back muscle strength from indices of body mass and fat-free body mass. <i>British Journal of Rheumatology</i> , 1999, 38, 652-655. | 2.5 | 28 |
| 50 | Experimental determination of stress distributions in articular cartilage before and after sustained loading. <i>Clinical Biomechanics</i> , 1999, 14, 88-96. | 0.5 | 18 |
| 51 | Personal Risk Factors for First-Time Low Back Pain. <i>Spine</i> , 1999, 24, 2497. | 1.0 | 240 |
| 52 | Dynamic Forces Acting on the Lumbar Spine During Manual Handling. <i>Spine</i> , 1999, 24, 698-703. | 1.0 | 29 |
| 53 | Repetitive lifting tasks fatigue the back muscles and increase the bending moment acting on the lumbar spine. <i>Journal of Biomechanics</i> , 1998, 31, 713-721. | 0.9 | 154 |
| 54 | Time-dependent changes in the lumbar spine's resistance to bending. <i>Clinical Biomechanics</i> , 1996, 11, 194-200. | 0.5 | 148 |

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|----|---|-----|-----------|
| 55 | Sustained Loading Generates Stress Concentrations in Lumbar Intervertebral Discs. Spine, 1996, 21, 434-438. | 1.0 | 219 |
| 56 | Psychological Questionnaires: Do "Abnormal" Scores Precede or Follow First-time Low Back Pain?. Spine, 1996, 21, 2603-2611. | 1.0 | 93 |
| 57 | Spine Update Mechanical Testing of the Spine An Appraisal of Methodology, Results, and Conclusions. Spine, 1995, 20, 2151-2156. | 1.0 | 121 |
| 58 | Fatigue of the Erector Spinae Muscles. Spine, 1995, 20, 149-159. | 1.0 | 104 |
| 59 | Recent advances in lumbar spinal mechanics and their clinical significance. Clinical Biomechanics, 1995, 10, 3-19. | 0.5 | 184 |
| 60 | Bending and compressive stresses acting on the lumbar spine during lifting activities. Journal of Biomechanics, 1994, 27, 1237-1248. | 0.9 | 211 |
| 61 | Passive tissues help the back muscles to generate extensor moments during lifting. Journal of Biomechanics, 1994, 27, 1077-1085. | 0.9 | 127 |
| 62 | The clinical biomechanics award paper 1993 Posture and the compressive strength of the lumbar spine. Clinical Biomechanics, 1994, 9, 5-14. | 0.5 | 165 |
| 63 | Abnormal stress concentrations in lumbar intervertebral discs following damage to the vertebral bodies: a cause of disc failure?. European Spine Journal, 1993, 1, 214-221. | 1.0 | 90 |
| 64 | Tensile properties of the annulus fibrosus. European Spine Journal, 1993, 2, 203-208. | 1.0 | 78 |
| 65 | Tensile properties of the annulus fibrosus. European Spine Journal, 1993, 2, 209-214. | 1.0 | 133 |
| 66 | Influence of lumbar and hip mobility on the bending stresses acting on the lumbar spine. Clinical Biomechanics, 1993, 8, 185-192. | 0.5 | 92 |
| 67 | Internal Intervertebral Disc Mechanics as Revealed by Stress Profilometry. Spine, 1992, 17, 66-73. | 1.0 | 305 |
| 68 | Development and validation of a new transducer for intradiscal pressure measurement. Journal of Biomedical Engineering, 1992, 14, 495-498. | 0.7 | 50 |
| 69 | A technique for quantifying the bending moment acting on the lumbar spine in vivo. Journal of Biomechanics, 1991, 24, 117-126. | 0.9 | 143 |
| 70 | Prolapsed Intervertebral Disc. Spine, 1982, 7, 184-191. | 1.0 | 388 |