

Richard L Abel

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

583
citations

759233

12
h-index

940533

16
g-index

18
all docs

18
docs citations

18
times ranked

935
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Exploring miniature insect brains using micro-CT scanning techniques. <i>Scientific Reports</i> , 2016, 6, 21768. | 3.3 | 80 |
| 2 | Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa. , 2016, 57, 2666. | | 68 |
| 3 | Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure. , 2017, 58, 2070. | | 57 |
| 4 | Long-term effects of bisphosphonate therapy: perforations, microcracks and mechanical properties. <i>Scientific Reports</i> , 2017, 7, 43399. | 3.3 | 56 |
| 5 | Phase-Contrast Micro-Computed Tomography Measurements of the Intraocular Pressure-Induced Deformation of the Porcine Lamina Cribrosa. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 988-999. | 8.9 | 45 |
| 6 | Automated segmentation of the lamina cribrosa using Frangi's filter: a novel approach for rapid identification of tissue volume fraction and beam orientation in a trabeculated structure in the eye. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141009. | 3.4 | 37 |
| 7 | Synchrotron Imaging Assessment of Bone Quality. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2016, 14, 150-160. | 0.8 | 36 |
| 8 | Early Trabecular Development in Human Vertebrae: Overproduction, Constructive Regression, and Refinement. <i>Frontiers in Endocrinology</i> , 2015, 6, 67. | 3.5 | 35 |
| 9 | Measuring bone stiffness using spherical indentation. <i>PLoS ONE</i> , 2018, 13, e0200475. | 2.5 | 28 |
| 10 | Femoral fracture type can be predicted from femoral structure: A finite element study validated by digital volume correlation experiments. <i>Journal of Orthopaedic Research</i> , 2018, 36, 993-1001. | 2.3 | 26 |
| 11 | Micro-CT X-rays do not fragment DNA in preserved bird skins. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2012, 50, 247-250. | 1.4 | 23 |
| 12 | Computed tomography porosity and spherical indentation for determining cortical bone millimetre-scale mechanical properties. <i>Scientific Reports</i> , 2019, 9, 7416. | 3.3 | 22 |
| 13 | Development of fetal trabecular microarchitecture in the humerus and femur. <i>Journal of Anatomy</i> , 2012, 220, 496-503. | 1.5 | 21 |
| 14 | Automated method to measure trabecular thickness from microcomputed tomographic scans and its application. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 982-988. | 2.0 | 18 |
| 15 | A method for fracture toughness measurement in trabecular bone using computed tomography, image correlation and finite element methods. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 109, 103838. | 3.1 | 13 |
| 16 | Contemporary hormone therapy with LHRH agonists for prostate cancer: avoiding osteoporosis and fracture. <i>Central European Journal of Urology</i> , 2015, 68, 165-8. | 0.3 | 9 |
| 17 | Nanoscale mechanisms in age-related hip-fractures. <i>Scientific Reports</i> , 2020, 10, 14208. | 3.3 | 7 |
| 18 | Clinical Importance of Bone Matrix Damage Mechanisms for Fracture Prevention. <i>Current Osteoporosis Reports</i> , 2021, 19, 318-326. | 3.6 | 2 |