

# 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  
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18  
docs citations

18  
times ranked

935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Importance of Bone Matrix Damage Mechanisms for Fracture Prevention. <i>Current Osteoporosis Reports</i> , 2021, 19, 318-326.	3.6	2
2	Nanoscale mechanisms in age-related hip-fractures. <i>Scientific Reports</i> , 2020, 10, 14208.	3.3	7
3	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
4	Computed tomography porosity and spherical indentation for determining cortical bone millimetre-scale mechanical properties. <i>Scientific Reports</i> , 2019, 9, 7416.	3.3	22
5	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
6	Measuring bone stiffness using spherical indentation. <i>PLoS ONE</i> , 2018, 13, e0200475.	2.5	28
7	Long-term effects of bisphosphonate therapy: perforations, microcracks and mechanical properties. <i>Scientific Reports</i> , 2017, 7, 43399.	3.3	56
8	Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure. , 2017, 58, 2070.		57
9	Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa. , 2016, 57, 2666.		68
10	Synchrotron Imaging Assessment of Bone Quality. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2016, 14, 150-160.	0.8	36
11	Exploring miniature insect brains using micro-CT scanning techniques. <i>Scientific Reports</i> , 2016, 6, 21768.	3.3	80
12	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
13	Early Trabecular Development in Human Vertebrae: Overproduction, Constructive Regression, and Refinement. <i>Frontiers in Endocrinology</i> , 2015, 6, 67.	3.5	35
14	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
15	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
16	Development of fetal trabecular microarchitecture in the humerus and femur. <i>Journal of Anatomy</i> , 2012, 220, 496-503.	1.5	21
17	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
18	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